



Bureau of Air Pollution Control

901 SOUTH STEWART STREET SUITE 4001

CARSON CITY, NEVADA 89701-5249

p: 775-687-9349 • www.ndep.nv.gov/bapc

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT (40 CFR Part 70 Program)

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (HEREINAFTER REFERRED TO AS PERMITTEE)

Mailing Address: 1 SOUTH MAINE AVENUE, HAWTHORNE, NEVADA 89415

Physical Address: 1 SOUTH MAINE AVENUE, HAWTHORNE, NEVADA 89415

Driving Directions: U.S. ROUTE 95 NORTH, ONE MILE NORTH OF HAWTHORNE, NEVADA 89415

General Facility Location:

SECTION 1, T 7 N, R 28 E; SECTIONS 5 & 6, T 7 N, R 29 E; SECTIONS 1, 2, & 3, ALL BUT $\frac{1}{4}$ OF THE NORTHWEST $\frac{1}{4}$ OF 4, 9 THROUGH 16, EASTERN $\frac{1}{4}$ OF 21, 22 THROUGH 26, $\frac{3}{4}$ OF 27, $\frac{3}{4}$ OF 35, 36, T 7 N, R 30 E; SECTIONS 2 THROUGH 11, 14 THROUGH 35, T 7 N, R 31 E; SECTIONS 1 THROUGH 3, EAST $\frac{1}{2}$ OF 10, 11 THROUGH 14, $\frac{1}{4}$ OF NORTHEAST $\frac{1}{4}$ OF 15, 23 THROUGH 25, NORTHEAST $\frac{1}{4}$ OF THE SOUTHEAST $\frac{1}{4}$ OF 26, 36, T 8 N, R 28 E; SECTIONS 1 THROUGH 33, T 8 N, R 29 E; SECTIONS 1 THROUGH 14, EAST $\frac{1}{2}$ OF 15, NORTHERN $\frac{1}{2}$ OF 16, 17 THROUGH 20, $\frac{3}{4}$ OF 21, NORTHEAST $\frac{1}{4}$ OF 22, 23 THROUGH 25, $\frac{3}{4}$ OF 26, 29 THROUGH 30, $\frac{3}{4}$ OF 34, 34 THROUGH 36, T 8 N, R 30 E; SECTION 1 THROUGH 23, 26 THROUGH 35, T 8 N, R 31 E; SOUTH $\frac{1}{2}$ OF SECTION 10, SECTIONS 11 THROUGH 15, 22 THROUGH 27, 34 THROUGH 36, T 9 N, R 28 E; SECTIONS 1 THROUGH 4, EASTERN $\frac{1}{2}$ OF 5, 7, WESTERN $\frac{1}{2}$ OF 8, 9 THROUGH 15, EASTERN $\frac{1}{2}$ OF 16, 17 THROUGH 36, T 9 N, R 29 E; SECTIONS 25 THROUGH 36, T 9 N, R 30 E; & SECTION 31, T 9 N, R 31 E.

HA 109, 110B, & 110C – EAST WALKER AREA/WALKER LAKE VALLEY/LAKE SUB-AREA/WHISKEY FLAT-

HAWTHORNE SUB-AREA / MINERAL COUNTY

NORTH 4,267,883 M, EAST 355,803 M, UTM ZONE 11, NAD 83

Emission Unit List:

A. System 01 – 24.5 MMBtu/hr Nebraska Diesel Fired Boiler – Building 13

S2.001 24.5 MMBtu/hr Nebraska Boiler, Model NS-B-34, Serial 2D1637, Building 13

B. System 04 – 24.5 MMBtu/hr Nebraska Diesel Fired Boiler – Building 103-6

S2.004 24.5 MMBtu/hr Nebraska Boiler, Model NS-B-34, Serial 2D1733, Building 103-6

C. System 07 – 18.5 MMBtu/hr Cleaver Brooks Diesel Fired Boiler – Building 117-2

S2.011 18.5 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CB-100-400, Serial L89956, Building 117-2

D. System 08 – 18.5 MMBtu/hr Cleaver Brooks Diesel Fired Boiler – Building 117-2

S2.014 18.5 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CB-100-400, Serial L095723, Building 117-2

E. System 09 – Melt-Out Process

S2.015 Melt-Out Process (2 Kettles, Belt Flaker), Building 117-5

F. System 10 – Wash-Out/Steam-Out Process

S2.016 Wash-Out/Steam-Out Table, Separation Tank, 2 Melt Kettles, Kernelling Machine, Belt Flaker, in Building 117-6

G. System 11 – High Pressure Ambient Temperature Water Wash-Out (West Side)

S2.017 Wash-Out Turntable, Dewatering Screen, Drying Conveyor, Building 117-6

H. System 12 – Low Pressure Hot Water Wash-Out (East Side)

S2.018 Wash-Out Turntable, Dewatering Screen, Drying Conveyor, Building 117-6



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Emission Unit List (continued):

I. System 13A – Screen Plant - Loading

- PF1.001 Material transfer to Feed Hopper
- PF1.002 Feed Hopper transfer to Conveyor C-1

J. System 13B – Screen Plant - Screening

- PF1.004 Fab Tec 3-Deck Screen & associated transfers (In: Conveyor 1, Out: Screen Discharge 1-3)

K. System 14A – Screen/Crush Plant - Loading

- PF1.008 Truck/End Dump transfer to Grizzly/Apron Feeder

L. System 14B – Screen/Crush Plant - Transfers

- PF1.009 Apron Feeder transfer to Conveyor C-1
- PF1.015 Conveyor C-2 transfer to Conveyor C-1

M. System 14C – Screen/Crush Plant - Screening

- PF1.011 El Jay Triple Deck Screen and associated transfers (In: Conveyor C-1, Out: Cone Crusher and Screen Discharges 1-3)

N. System 14D – Screen/Crush Plant - Crushing

- PF1.013 Cedarapids Cone Crusher and associated transfers (In: El Jay Screen, Out: Conveyor C-2)

O. System 16 – Radial Stacker

- PF1.017 Fab Tec 30' Radial Stacker

P. System 17 – Radial Stacker

- PF1.018 Fab Tec 30' Radial Stacker

Q. System 18 – Radial Stacker

- PF1.019 Fab Tec 30' Radial Stacker

R. System 20 – Surface Coating Booth

- S2.037 Surface Coating Booth, Building 103-16

S. System 21 – Surface Coating Booth

- S2.038 Surface Coating Booth, Building 26

T. System 22 – Surface Coating Booth

- S2.039 Surface Coating Booth, Building 26

U. System 23 – Surface Coating Booth

- S2.040 Surface Coating Booth, Building 49-9

V. System 24 – Surface Coating Booth

- S2.041 Surface Coating Booth, Building 104-3

W. System 26 – Plasma Ordnance Demilitarization System (PODS)

- S2.043 PODS Waste Handling Blending, Building 117-2

X. System 27 – Hot Gas Decontamination System

- S2.044 Hot Gas Decontamination System, Building 117-16



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Emission Unit List (continued):

Y. System 28 – Old Bomb Facility

F1.001 Open Burn Pan #1
F1.002 Open Burn Pan #2
F1.003 Open Burn Pan #3
F1.004 Open Burn Pan #4
F1.005 Open Burn Pan #5
F1.006 Open Burn Pan #6
F1.007 Open Burn Pan #7
F1.008 Open Burn Pan #8
F1.009 Open Burn Pan #9
F1.010 Open Burn Pan #10
F1.011 Open Burn Pan #11
F1.012 Open Burn Pan #12
F1.013 Open Burn Pan #13
F1.014 Open Burn Pan #14
F1.015 Open Burn Pan #15
F1.016 Open Burn Pan #16
F1.017 Open Burn Pan #17
F1.018 Open Burn Pan #18
F1.019 Open Burn Pan #19
F1.020 Open Burn Pan #20

Z. System 30 – Munitions Detonation Rotary Kiln (MDRK) and Metal Feeding/Recycling System (RF-9)

S2.046 MDRK and Metal Feeding/Recycling System
S2.047 Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr)

AA. System 31 – Pangborn Blast Booth

S2.048 Pangborn Blast Booth, Building 103-5

AB. System 32 – Surface Coating Booth

S2.049 Surface Coating Booth, Building 103-5

AC. System 35 – 80 kW Kohler Emergency Diesel Generator

S2.052 Emergency Diesel Generator (Manufactured by Kohler Serial 358882, 80 kW, Year Pre-2000)

AD. System 39 – 3.5 MMBtu/hr International Diesel Boiler - Building 102-52

S2.056 3.5 MMBtu/hr International Diesel Boiler, Model BF-100C-W1HL, Serial 637-E, Building 102-52

AE. System 40 – 3.5 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 104-2

S2.057 3.5 MMBtu/hr Cleaver Brooks Diesel Boiler, Model M4P-6000, Serial 46018805, Building 104-2

AF. System 41 – 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 103-31

S2.058 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler, Model OB-3, Serial 0-3619, Building 103-31

AG. System 42 – 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 103-31

S2.059 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler, Model OB-3, Serial 0-3620, Building 103-31



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Emission Unit List (continued):

AH. System 43 – 2.5 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 104-9

S2.060 2.5 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CBE100-060-150ST, Serial OL103313, Building 104-9

AI. System 44 – 3.8 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 104-4

S2.061 3.8 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CBE100-090-150ST, Serial OL103314, Building 104-4

AJ. System 45 – 3.35 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 49-31

S2.062 3.35 MMBtu/hr Cleaver Brooks Diesel Boiler, Serial L99881, Building 49-31

AK. System 46A – 10,000 Gallon Capacity Gasoline Storage Tanks

S2.063 Gasoline Storage Tank (GT001), Manufactured by Elutron (10,000 Gallon Capacity), Building 336

S2.064 Gasoline Storage Tank (GT002), Manufactured by Elutron (10,000 Gallon Capacity), Building 336

AL. System 46B – 1,000 Gallon Capacity Gasoline Storage Tank

S2.065 Gasoline Storage Tank (GT003), Manufactured by San Luis Tank and Piping Construction Company (1,000 Gallon Capacity), Building 150

AM. System 47 – Battery Recycling Retort

S2.066 Mercury Retort, Manufactured by Lochhead-Haggerty, Year 2008, Model MR-15, Building 104-5

AN. System 48 – 324 hp Cummins Emergency Diesel Generator (Well 11)

S2.067 Emergency Diesel Generator (324 hp; Manufactured by Cummins; Serial C120320992; Year 2012)

AO. System 49 – 574 hp Caterpillar Emergency Diesel Generator (Water Processing Plant)

S2.068 Emergency Diesel Generator (574 hp; Manufactured by Caterpillar; Serial G6B15460; Year 2012)

AP. System 50 – Comp A5 Collection Systems

S2.069 Primary Comp A5 Collection #1 (Cells 6 and 7)

S2.070 Secondary Comp A5 Collection #2 (Cells 6 and 7)

S2.071 Primary Comp A5 Collection #3 (Cells 3 and 4)

S2.072 Secondary Comp A5 Collection #4 (Cells 3 and 4)

AQ. System 51 – 8.2 MMBtu/hr Cleaver Brooks Diesel Fired Boiler - Building 13

S2.073 8.2 MMBtu/hr Cleaver Brooks Diesel Fired Boiler, Model CBEX 100-200-150ST, Building 13

AR. System 52 – Mobile Mercury Transfer System (MMTS)

S2.074 Mobile Mercury Transfer System Process Ventilation System

AS. System 53 – 147 hp Cummins Emergency Diesel Generator (MMTS)

S2.075 Emergency Diesel Generator for MMTS (147 hp; Manufactured by Cummins; Model 100DSGAA; Serial J13057368; Year 2013)

AT. System 54 – Cedarapids Horizontal Impact Metal Crusher

PF1.020 Cedarapids Horizontal Impact Metal Crusher and associated transfers (In: Feed Conveyor, Out: Storage Bin via Discharge Conveyor)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Emission Unit List (continued):

AU. System 55 – 400 hp John Deere Diesel Generator (Metal Crusher)

S2.076 Diesel Generator for Cedarapids Horizontal Impact Metal Crusher (400 hp; Manufactured by John Deere; Model 6135H; Year 2006)

AV. System 56 – Bulk Energetics Demilitarization System (BEDS)

S2.077 Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input

S2.078 Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input

AW. System 57 – 14.7 MMBtu/hr Hurst Diesel Fired Boiler - Building 103-6

S2.079 14.7 MMBtu/hr Hurst Diesel Boiler, Model 300 Series, Building 103-6

AX. System 58 – 232 hp Cummins Emergency Diesel Generator

S2.080 Emergency Diesel Generator (232 hp; Manufactured by Cummins; Model 150DSGAC; Serial A-61070390; Year 2016)

AY. System 59 – 77 hp Cummins Emergency Propane Generators

S2.081 Emergency Propane Generator (77 hp; Manufactured by Cummins; Model Onan RX50; Serial D160940349; Year 2016)

S2.082 Emergency Propane Generator (77 hp; Manufactured by Cummins; Model Onan RX50; Serial D160940348; Year 2016)

AZ. System 60 – 131 hp Generac Emergency Diesel Generator

S2.083 Emergency Diesel Generator (131 hp; Manufactured by Generac; Model SD080; Serial 3001334531; Year 2022 or later)

BA. System 61 – Plasma Cutting - Building 63

S2.084 Plasma Cutting - Building 63

BB. System 62 – 25 kW Katolight Emergency Propane Generator

S2.085 Katolight Emergency Generator (25 kW; Manufactured by Katolight; Model SENL25FPN4; Serial 6576660205; Year Pre-2006)

BC. System 63 – 230 kW Caterpillar Emergency Diesel Generator

S2.086 Caterpillar Emergency Generator (230 kW; Manufactured by Caterpillar; Model C9-250AGI; Serial X3R00817; Year 2007)

BD. System 64 – Building 101-25 Emergency Diesel Generator

S2.087 Building 101-25 Cummins Diesel Emergency Generator (168 hp; Manufactured by Cummins; Model QSB7; Year 2022)

BE. System 65 – Well #4 Emergency Diesel Generator

S2.088 Well #4 - Cummins Diesel Emergency Generator (168 hp; Manufactured by Cummins; Model QSB7; Year 2022)

BF. System 66 – 80 hp Generac Emergency Propane Generator

S2.089 Emergency Propane Generator (80 hp; Manufactured by Generac; Model RG06024ANAX; Serial 3003390539; Year 2018)

BG. System 67 – Generac 30 kW Nominal Output Emergency Diesel Generator

S2.090 Generac 30 kW Nominal Output Emergency Diesel Generator (49 hp; engine manufactured by Perkins; model MPKXL02.2NLC; year manufactured 2021)

******End of Emission Unit List******



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section I. General Conditions

A. Nevada Administrative Code (NAC) 445B.063

The Department may use any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed, to determine excess emissions.

B. NAC 445B.22013

Prohibited Discharge

The Permittee shall not cause or permit the discharge into the atmosphere from any stationary source of any hazardous air pollutant or toxic regulated air pollutant that threatens the health and safety of the general public, as determined by the Director.

C. NAC 445B.22017

Visible Emissions: Maximum Opacity; Determination and Monitoring of Opacity.

1. Except as otherwise provided in this section and NAC 445B.2202, the Permittee may not cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:
 - a. If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A of 40 CFR Part 60.
 - b. If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 CFR 60.13(h).
2. The provisions of this section and NAC 445B.2202 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.
3. If the provisions of 40 CFR Part 60, Subpart D or Da apply to an emission unit, the emission unit shall be allowed one 6-minute period per hour of not more than 27 percent opacity as set forth in 40 CFR 60.42(a)(2) and 40 CFR 60.42a(b).
4. The continuous monitoring system for monitoring opacity at a facility shall be operated and maintained by the Permittee specified in the permit for the facility in accordance with NAC 445B.256 to 445B.267, inclusive.

D. NAC 445B.22067

Open Burning

The open burning of any combustible refuse, waste, garbage, oil, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in NAC 445B.22067(2).

E. NAC 445B.22087

Odors

1. The Permittee may not discharge or cause to be discharged, from any stationary source, any material or regulated air pollutant which is or tends to be offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents the comfortable enjoyment of life or property.
2. The Director shall investigate an odor when 30 percent or more of a sample of the people exposed to it believe it to be objectionable in usual places of occupancy. The sample must be at least 20 people or 75 percent of those exposed if fewer than 20 people are exposed.
3. The Director shall deem the odor to be a violation if he or she is able to make two odor measurements within a period of 1 hour. These measurements must be separated by at least 15 minutes. An odor measurement consists of a detectable odor after the odorous air has been diluted with eight or more volumes of odor-free air.

F. NAC 445B.225

Prohibited Conduct: Concealment of Emissions

The Permittee may not install, construct or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section I. General Conditions (continued)

G. NAC 445B.227

Prohibited conduct: Operation of source without required equipment; removal or modification of required equipment; modification of required procedure

Except as otherwise provided in NAC 445B.001 to 445B.390, inclusive, no person may:

1. Operate a stationary source of air pollution unless the control equipment for air pollution which is required by applicable requirements or conditions of this Operating Permit is installed and operating.
2. Disconnect, alter, modify or remove any of the control equipment for air pollution or modify any procedure required by an applicable requirement or condition of the permit.

H. NAC 445B.232

Excess Emissions

1. Scheduled maintenance or testing or scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.100 to 445B.390, inclusive, must be approved in advance by the Director and performed during a time designated by the Director as being favorable for atmospheric ventilation.
2. The Permittee shall notify the Director of the proposed time and expected duration at least 30 days before any scheduled maintenance or testing which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.390, inclusive. The scheduled maintenance or testing must not be conducted unless the scheduled maintenance or testing is approved pursuant to NAC 445B.232(1).
3. The Permittee shall notify the Director of the proposed time and expected duration at least 24 hours before any scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.390, inclusive. The scheduled repairs must not be conducted unless the scheduled repairs are approved pursuant to NAC 445B.232(1).
4. The Permittee shall notify the Director by email of any excess emissions within 24 hours after any malfunction or upset of the process equipment or equipment for controlling pollution or during start-up or shutdown of that equipment. The Permittee shall send the email to eenotify@ndep.nv.gov.
5. The Permittee shall provide the Director, within 15 days after any malfunction, upset, start-up, shutdown or human error which results in excess emissions, sufficient information to enable the Director to determine the seriousness of the excess emissions. The information must include at least the following:
 - a. The identity of the stack or other point of emission, or both, where the excess emissions occurred.
 - b. The estimated magnitude of the excess emissions expressed in opacity or in the units of the applicable limitation on emission and the operating data and methods used in estimating the magnitude of the excess emissions.
 - c. The time and duration of the excess emissions.
 - d. The identity of the equipment causing the excess emissions.
 - e. If the excess emissions were the result of a malfunction, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of the malfunction.
 - f. The steps taken to limit the excess emissions.
 - g. Documentation that the equipment for controlling air pollution, process equipment or processes were at all times maintained and operated, to a maximum extent practicable, in a manner consistent with good practice for minimizing emissions.
6. The Permittee shall ensure that any notification or related information submitted to the Director pursuant to this section is provided in a format specified by the Director.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section I. General Conditions (continued)

I. NAC 445B.252

Testing and Sampling

1. To determine compliance with NAC 445B.001 to 445B.390, inclusive, before the approval or the continuance of an operating permit or similar class of permits, the Director may either conduct or order the Permittee of any stationary source to conduct or have conducted such testing and sampling as the Director determines necessary. Testing and sampling or either of them must be conducted and the results submitted to the Director within 60 days after achieving the maximum rate of production at which the affected facility will be operated, but not later than 180 days after initial start-up of the facility and at such other times as may be required by the Director.
2. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the Director:
 - a. Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
 - b. Approves the use of an equivalent method;¹
 - c. Approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific stationary source is in compliance;² or
 - d. Waives the requirement for tests of performance because the Permittee of a stationary source has demonstrated by other means to the Director's satisfaction that the affected facility is in compliance with the standard.
3. Tests of performance must be conducted under such conditions as the Director specifies to the operator of the plant based on representative performance of the affected facility. The Permittee shall make available to the Director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard.
4. The Permittee of an affected facility shall give notice to the Director 30 days before the test of performance to allow the Director to have an observer present. A written testing procedure for the test of performance must be submitted to the Director at least 30 days before the test of performance to allow the Director to review the proposed testing procedures.
5. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions or other circumstances with less than three valid samples being obtained, compliance may be determined using the arithmetic mean of the results of the other two runs upon the Director's approval.
6. All testing and sampling will be performed in accordance with recognized methods and as specified by the Director.³
7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power and other pertinent allied facilities as may be required and specified in writing by the Director must be provided and paid for by the Permittee of the stationary source.
8. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the Director no later than 60 days after the testing or sampling, or both.
9. Notwithstanding the provisions of NAC 445B.252(2), the Director shall not approve an alternative method or equivalent method to determine compliance with a standard or emission limitation contained in Part 60, 61 or 63 of Title 40 of the Code of Federal Regulations for:
 - a. An emission unit that is subject to a testing requirement pursuant to Part 60, 61 or 63 of Title 40 of the Code of Federal Regulations; or
 - b. An affected source.

¹ Requires additional approval from the EPA Administrator.

² Requires additional approval from the EPA Administrator.

³ Requires additional approval from the EPA Administrator.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section I. General Conditions (continued)

J. NAC 445B.273(1)

Schedules for Compliance

All new and existing stationary sources must comply with NAC 445B.001 through 445B.390, inclusive. Existing stationary sources are in compliance with those sections and may continue to operate under the provisions of their approved compliance schedules, which may be amended from time to time.

K. NAC 445B.275

Violations: Acts constituting; notice

1. Failure to comply with any requirement of NAC 445B.001 to 445B.390, inclusive, any applicable requirement or any condition of an operating permit constitutes a violation. As required by NRS 445B.450, the Director shall issue a written notice of an alleged violation to the Permittee for any violation, including, but not limited to:
 - a. Failure to apply for and obtain an operating permit;
 - b. Failure to construct a stationary source in accordance with the application for an operating permit as approved by the Director;
 - c. Failure to construct or operate a stationary source in accordance with any condition of an operating permit;
 - d. Commencing construction or modification of a stationary source without applying for and receiving an operating permit or a modification of an operating permit as required by NAC 445B.001 to 445B.3477, inclusive, or a mercury operating permit to construct as required by NAC 445B.3611 to 445B.3689, inclusive;
 - e. Failure to comply with any requirement for recordkeeping, monitoring, reporting or compliance certification contained in an operating permit; or
 - f. Failure to pay fees as required by NAC 445B.327 or 445B.3689.
2. The written notice must specify the provision of NAC 445B.001 to 445B.390, inclusive, the condition of the operating permit or the applicable requirement that is being violated.
3. Written notice shall be deemed to have been served if delivered to the person to whom addressed or if sent by registered or certified mail to the last known address of the person.

L. NAC 445B.305

Operating permits: Imposition of more stringent standards for emissions

The Director may impose standards for emissions on a proposed stationary source that are more stringent than those found in NAC 445B.001 to 445B.390, inclusive, as a condition of approving an operating permit for the proposed stationary source.

M. NAC 445B.315

Contents of operating permits: Exception for operating permits to construct; required conditions

1. Notwithstanding any provision of this section to the contrary, the provisions of this section do not apply to operating permits to construct.
2. The Director shall cite the legal authority for each condition contained in an operating permit.
3. An operating permit must contain the following conditions:
 - a. The term of the operating permit is 5 years.
 - b. The Permittee shall retain records of all required monitoring data and supporting information for 5 years after the date of the sample collection, measurement, report or analysis. Supporting information includes all records regarding calibration and maintenance of the monitoring equipment and all original strip-chart recordings for continuous monitoring instrumentation.
 - c. Each of the conditions and requirements of the operating permit is severable, and if any are held invalid, the remaining conditions and requirements continue in effect.
 - d. The Permittee shall comply with all conditions of the operating permit. Any noncompliance constitutes a violation and is a ground for:
 - (1) An action for noncompliance;
 - (2) Revising, revoking, reopening and revising, or terminating the operating permit by the Director; or
 - (3) Denial of an application for a renewal of the operating permit by the Director.
 - e. The need to halt or reduce activity to maintain compliance with the conditions of the operating permit is not a defense to noncompliance with any condition of the operating permit.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section I. General Conditions (continued)

M. NAC 445B.315 (continued)

Contents of operating permits: Exception for operating permits to construct; required conditions (continued)

3. An operating permit must contain the following conditions (continued):
 - f. The Director may revise, revoke and reissue, reopen and revise, or terminate the operating permit for cause.
 - g. The operating permit does not convey any property rights or any exclusive privilege.
 - h. The Permittee shall provide the Director, in writing and within a reasonable time, with any information that the Director requests⁴ to determine whether cause exists for revising, revoking and reissuing, reopening and revising, or terminating the operating permit, or to determine compliance with the conditions of the operating permit.
 - i. The Permittee shall pay fees to the Director in accordance with the provisions set forth in NAC 445B.327 and 445B.331.
 - j. The Permittee shall allow the Director or any authorized representative, upon presentation of credentials, to:
 - (1) Enter upon the premises of the Permittee where:
 - (a) The stationary source is located;
 - (b) Activity related to emissions is conducted; or
 - (c) Records are kept pursuant to the conditions of the operating permit;⁵
 - (2) Have access to and copy, during normal business hours, any records that are kept pursuant to the conditions of the operating permit
 - (3) Inspect, at reasonable times, any facilities, practices, operations or equipment, including any equipment for monitoring or controlling air pollution, that are regulated or required pursuant to the operating permit; and
 - (4) Sample or monitor, at reasonable times, substances or parameters to determine compliance with the conditions of the operating permit or applicable requirements.
 - k. A responsible official (as defined in NAC 445B.156) of the stationary source shall certify that, based on information and belief formed after a reasonable inquiry, the statements made in any document required to be submitted by any condition of the operating permit are true, accurate and complete.

N. NAC 445B.319, NAC 445B.342, NAC 445B.3425, and NAC 445B.344

Any changes to this operating permit will comply with all provisions established under NAC 445B.319 (Administrative Amendment),⁶ NAC 445B.342 (Notification of Authorized Change), NAC 445B.3425 (Minor Revision), and NAC 445B.344 (Significant Revision).

O. NAC 445B.325

Termination, reopening and revision, modification, and revocation and reissuance

1. A Class I operating permit must be reopened and revised to incorporate any additional applicable requirement adopted pursuant to the Act if, on the effective date of the applicable requirement, the operating permit has a remaining term of 3 or more years. The reopening must be completed no later than 18 months after the effective date of the applicable requirement.⁷
2. An operating permit may be terminated, reopened and revised, modified, or revoked and reissued if:
 - a. The Director or the Administrator determines that the operating permit contains a material mistake or is based on inaccurate statements;
 - b. The Director or the Administrator determines that the operating permit, as written, does not ensure compliance with all applicable requirements; or
 - c. The Director determines that there has been a violation of any of the provisions of NAC 445B.001 to 445B.390, inclusive, any applicable requirement, or any condition contained in the operating permit.

⁴ The Permittee shall submit yearly reports including, but not limited to, throughput, production, fuel consumption, hours of operation, and emissions. These reports will be submitted in the format required by the Nevada Division of Environmental Protection Bureau of Air Pollution Control and Bureau of Air Quality Planning (Air Programs) for all emission units/systems specified on the form. The report must be submitted to the Air Programs no later than March 1 annually for the preceding calendar year, unless otherwise approved by the Air Programs.

⁵ Under NAC 445B.288(3), the Permittee shall retain an operating log for emission units considered insignificant activities subject to a limitation on its hours of operation pursuant to NAC 445B.288(2) for not less than 5 years.

⁶ Under NAC 445B.287(3), an operating permit may not be transferred from one owner or piece of equipment to another. The Permittee may apply for an administrative amendment reflecting a change of ownership or the name of the stationary source.

⁷ State only requirements (only Nevada has authority to enforce).



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section I. General Conditions (continued)

O. NAC 445B.325 (continued)

Termination, reopening and revision, modification, and revocation and reissuance (continued)

3. The Director shall notify the Permittee at least 30 days before the Director terminates, reopens and revises, revises, or revokes and reissues the operating permit. The notice must be made by certified mail and must contain the legal authority, the jurisdiction and the reasons for the action taken.⁸
4. If the Administrator notifies the Director and the Permittee that cause exists to reopen the operating permit, the Director shall forward to the Administrator a proposed determination of the reopening and revision, the revision of, or the revocation and reissuance of the operating permit within 90 days after receipt of the notice from the Administrator.⁹
5. If the Director reopens an operating permit, he or she shall revise only those portions of the operating permit for which cause exists.
6. The reopening of an operating permit pursuant to this section must comply with all of the relevant requirements for the issuance or revision of a permit, including the requirements related to the content of the permit and the requirements for notice, public participation and comment, and a review by any affected states.

P. NAC 445B.3265

Operating permits: Revocation and reissuance

1. An operating permit may be revoked if the control equipment is not operating.
2. An operating permit may be revoked by the Director upon determining that there has been a violation of NAC 445B.001 to 445B.390, inclusive, or the provisions of 40 CFR 52.21, or 40 CFR Part 60 or 61, Prevention of Significant Deterioration, New Source Performance Standards, and National Emission Standards for Hazardous Air Pollutants, adopted by reference in NAC 445B.221.
3. The revocation is effective 10 days after the service of a written notice, unless a hearing is requested.
4. To reissue a revoked operating permit, the holder of the revoked permit must file a new application with the Director, accompanied by the fee for an initial operating permit as specified in NAC 445B.327. An environmental review of the stationary source must be conducted as though construction had not yet commenced.

Q. NAC 445B.3405(1)(d)

The Permittee shall record:

1. Monitoring information required by the conditions of this permit including the date, the location and the time of the sampling or the measurements and the operating conditions at the time of the sampling or measurements; and
2. The date on which the analyses were performed, the company that performed them, the analytical techniques that the company used, and the results of such analyses.

R. NAC 445B.3405(1)(e)

The Permittee shall:

1. Promptly report to the Director all deviations from the requirements of this operating permit; and
2. Report to the Director the probable cause of all deviations and any action taken to correct the deviations. For this operating permit, prompt is defined as submittal of a report within 15 days of the deviation. This definition does not alter any reporting requirements as established for reporting of excess emissions as required under NAC 445B.232, or for reporting of an emergency (as defined by NAC 445B.326); and
3. Submit reports of any required monitoring every 6 months, within 8 weeks after June 30 and December 31 of each calendar year. The reports must contain a summary of the data collected as required by all monitoring, recordkeeping and compliance requirements and as specified in this operating permit.

⁸ State only requirements (only Nevada has authority to enforce).

⁹ State only requirements (only Nevada has authority to enforce).



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section I. General Conditions (continued)

S. NAC 445B.3405(1)(j)

The Permittee shall submit a compliance certification annually,¹⁰ or more frequently if required by an applicable requirement, to the Director. A copy of the compliance certification must be submitted to the Administrator. A compliance certification must include:

1. An identification of each term or condition of the operating permit that is the basis of the certification;
2. The status of the stationary source's compliance with any applicable requirement;
3. A statement of whether compliance was continuous or intermittent;
4. The method used for determining compliance; and
5. Any other facts the Director determines to be necessary to determine compliance.

T. NAC 445B.3443

Renewal of permit

1. All Class I operating permits must be renewed 5 years after the date of issuance.
2. A complete application for the renewal of a Class I operating permit must be submitted to the Director on the form provided by the Director with the appropriate fee at least 240 days, but not earlier than 18 months, before the expiration date of the current Class I operating permit for stationary sources.¹¹
3. Applications for the renewal of a Class I operating permit must comply with all requirements for the issuance of an initial Class I operating permit as specified in NAC 445B.3395.
4. If an application for the renewal of a Class I operating permit is submitted in accordance with NAC 445B.3443(2), the stationary source may continue to operate under the conditions of the existing Class I operating permit until the Class I operating permit is renewed or the application for renewal is denied.
5. If an application for the renewal of a Class I operating permit is not submitted in accordance with NAC 445B.3443(2):
 - a. The stationary source may be required to cease operation when the Class I operating permit expires; and
 - b. The Permittee of the stationary source:
 - (1) Must apply for the issuance of a new Class I operating permit pursuant to NAC 445B.3375; and
 - (2) May not recommence the operation until the new Class I operating permit is issued.
6. The fee for the issuance of a new Class I operating permit or the renewal of a Class I operating permit is specified in NAC 445B.327.

U. Nevada Revised Statute (NRS) 445B.470

Prohibited acts; penalty; establishment of violation; request for prosecution

1. A person shall not knowingly:
 - a. Violate any applicable provision, the terms or conditions of any permit or any provision for the filing of information;
 - b. Fail to pay any fee;
 - c. Falsify any material statement, representation or certification in any notice or report; or
 - d. Render inaccurate any monitoring device or method, required pursuant to the provisions of NRS 445B.100 to 445B.450, inclusive, or 445B.470 to 445B.640, inclusive, or any regulation adopted pursuant to those provisions.
2. Any person who violates any provision of NRS 445B.470(1) shall be punished by a fine of not more than \$10,000 for each day of the violation.
3. The burden of proof and degree of knowledge required to establish a violation of subsection 1 are the same as those required by 42 U.S.C. § 7413(c), as that section existed on October 1, 1993.
4. If, in the judgment of the Director of the Department or the Director's designee, any person is engaged in any act or practice which constitutes a criminal offense pursuant to NRS 445B.100 to 445B.640, inclusive, the Director of the Department or the designee may request that the Attorney General or the district attorney of the county in which the criminal offense is alleged to have occurred institute by indictment or information a criminal prosecution of the person.

¹⁰ The Permittee shall submit the compliance certification on or before March 1.

¹¹ The Director shall determine whether the application is complete within 60 days of receipt of the application (NAC 445B.3395). It is recommended the Permittee submit the application at least 300 days before the expiration date of the current Class I operating permit.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section I. General Conditions (continued)

U. Nevada Revised Statute (NRS) 445B.470 (continued)

Prohibited acts; penalty; establishment of violation; request for prosecution (continued)

5. If, in the judgment of the control officer of a local air pollution control board, any person is engaged in such an act or practice, the control officer may request that the district attorney of the county in which the criminal offense is alleged to have occurred institute by indictment or information a criminal prosecution of the person.
6. The fee for the issuance of a new Class I operating permit or the renewal of a Class I operating permit is specified in NAC 445B.327.

V. ASIP NAC Article 2.5.4

Breakdown or upset, determined by the Director to be unavoidable and not the result of careless or marginal operations, shall not be considered a violation of these regulations.

*****End of General Conditions*****

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section II. Construction Conditions****A. Notification** (NAC 445B.250; NAC 445B.3405)The Permittee shall notify the Director in writing of the following for **S2.090** – added on September 3, 2025.

1. The date construction (or reconstruction as defined under NAC 445B.247) of the affected facility is commenced, postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.
2. The anticipated date of initial startup of an affected facility, postmarked no more than 60 days and no less than 30 days prior to such date.
3. The actual date of initial startup of the affected facility, postmarked within 15 days after such date.
4. The date upon which demonstration of the continuous monitoring system performance commences in accordance with NAC 445B.256 to 445B.267, inclusive. Notification must be postmarked not less than 30 days before such date.

B. Initial Opacity Compliance Demonstration and Initial Performance Tests

1. Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.3405, the Permittee, upon issuance of this operating permit, shall conduct and record initial opacity compliance demonstrations and/or initial performance tests within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup. The Permittee shall follow the test methods and procedures referenced in **Table II-1** below:

Table II-1: Initial Opacity Compliance Demonstration and Initial Performance Test

System	Emission Units	Pollutant To Be Tested	Testing Methods/Procedures
System 26 – Plasma Ordnance Demilitarization System (PODS)	S2.043	PM	Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
		PM ₁₀ /PM _{2.5}	Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM ₁₀ and PM _{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM _{2.5} for determination of compliance.
		SO ₂	Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section II. Construction Conditions (continued)

B. Initial Opacity Compliance Demonstration and Initial Performance Tests (continued)

1. Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.3405, the Permittee, upon issuance of this operating permit, shall conduct and record initial opacity compliance demonstrations and/or initial performance tests within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup. The Permittee shall follow the test methods and procedures referenced in **Table II-1** below:

Table II-1: Initial Opacity Compliance Demonstration and Initial Performance Test (continued)

System	Emission Units	Pollutant To Be Tested	Testing Methods/Procedures
System 26 – Plasma Ordnance Demilitarization System (PODS) (continued)	S2.043	NO _x	Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
		CO	Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
		VOC	Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.
		Pb	Method 12 in Appendix A of 40 CFR Part 60 shall be used to determine the lead concentration. Each test will be run for a minimum of one hour.
System 50 – Comp A5 Collection Systems	S2.069, S2.070, S2.071, S2.072	Opacity	Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section II. Construction Conditions (continued)

B. Initial Opacity Compliance Demonstration and Initial Performance Tests (continued)

1. Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.3405, the Permittee, upon issuance of this operating permit, shall conduct and record initial opacity compliance demonstrations and/or initial performance tests within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup. The Permittee shall follow the test methods and procedures referenced in **Table II-1** below (continued)

Table II-1: Initial Opacity Compliance Demonstration and Initial Performance Test (continued)

System	Emission Units	Pollutant To Be Tested	Testing Methods/Procedures
System 56 – Bulk Energetics Demilitarization System (BEDS)	S2.077, S2.078	PM	Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
		PM ₁₀ /PM _{2.5}	Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM ₁₀ and PM _{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM _{2.5} for determination of compliance.
		SO ₂	Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
		NO _x	Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
		VOC	Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.
		Pb	Method 12 in Appendix A of 40 CFR Part 60 shall be used to determine the lead concentration. Each test will be run for a minimum of one hour.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section II. Construction Conditions (continued)****B. Initial Opacity Compliance Demonstration and Initial Performance Tests (continued)**

- Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.3405, the Permittee, upon issuance of this operating permit, shall conduct and record initial opacity compliance demonstrations and/or initial performance tests within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup. The Permittee shall follow the test methods and procedures referenced in **Table II-1** below (continued)

Table II-1: Initial Opacity Compliance Demonstration (continued)

System	Emission Units	Pollutant To Be Tested	Testing Methods/Procedures
System 67 – Generac 30 kW Nominal Output Emergency Diesel Generator	S2.090	Opacity	Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.

- All initial opacity compliance demonstrations and initial performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **II. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All initial performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- Testing shall be conducted on the exhaust stack (post controls).
- Initial opacity compliance demonstrations and initial performance tests in **Table II-1** above, must be conducted under such conditions as the Director specifies to the operator of the plant based on representative performance of the affected facility. The Permittee shall make available to the Director such records as may be necessary to determine the conditions of the initial opacity compliance demonstrations and initial performance tests. Operations during periods of startup, shutdown and malfunction must not constitute representative conditions of the initial opacity compliance demonstrations and initial performance tests unless otherwise specified in the applicable standard. (NAC 445B.252(3))
- The Permittee shall give notice to the Director 30 days before the initial opacity compliance demonstrations and initial performance tests to allow the Director to have an observer present. A written testing procedure must be submitted to the Director at least 30 days before the initial opacity compliance demonstrations and initial performance tests to allow the Director to review the proposed testing procedures. (NAC 445B.252(4) and 40 CFR Part 60.7(a)(6))
- Within 60 days after completing the initial opacity compliance demonstrations and initial performance tests contained in **Table II-1** of this section, the Permittee shall furnish the Director a written report of the results. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3689, inclusive. (NAC 445B.252(8))
- Initial opacity compliance demonstrations and initial performance tests required under this section that are conducted below the maximum allowable throughput, shall be subject to the Director's review to determine if the throughputs during initial opacity compliance demonstrations and initial performance tests sufficient to provide adequate compliance demonstration. Should the Director determine that the initial opacity compliance demonstrations and initial performance tests do not provide adequate compliance demonstration, the Director may require additional testing.

******End of Construction Conditions******



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section III. Ambient Air Monitoring Requirements

A. Not Applicable.

*****End of Ambient Air Monitoring Requirements*****

DRAFT

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions****A. Emission Unit S2.001**

System 01 – 24.5 MMBtu/hr Nebraska Diesel Fired Boiler – Building 13		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.001	24.5 MMBtu/hr Nebraska Boiler, Model NS-B-34, Serial 2D1637, Building 13	4,267,905	355,879

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.001** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 35.0 feet
Stack Diameter: 2.08 feet
Stack Temperature: 500.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.001** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.001** shall not exceed **175.0 gallons** per hour, averaged over a calendar day.
 - c. The maximum allowable annual fuel consumption rate for **S2.001** shall not exceed the value under **Section VII.D.1.b.** of this operating permit.
 - d. Hours
 - (1) **S2.001** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.001** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.70** pounds per hour, nor more than **3.07** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.35** pounds per hour, nor more than **1.53** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.088** pounds per hour, nor more than **0.38** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.075** pounds per hour, nor more than **0.33** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **3.85** pounds per hour, nor more than **16.9** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **2.63** pounds per hour, nor more than **11.5** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.14** pounds per hour, nor more than **0.61** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.001** shall not equal or exceed **20** percent.
 - i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.001** shall not exceed **0.49** pounds per MMBtu.
 - j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.001** shall not exceed **17.2** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.001** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.001** for each calendar day.
- e. Conduct and record an observation of visible emissions (excluding water vapor) on the exhaust stack of **S2.001** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.
- f. Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
- g. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- h. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- i. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- j. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)
 - a. Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.001**. (40 CFR 63.11196(b))
 - b. Emission Limits and Work Practice Standards (40 CFR 63.11201)
 - (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
 - (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.001** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
 - (3) The standards mentioned in **A.6.b.** of this section apply at all times **S2.001** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.001** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **A.6.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.001** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (c)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **A.6.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.001** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.001**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **A.6.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (9) The Permittee must conduct a performance tune-up according to **A.6.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (10) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **A.6.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **A.6.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (11) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **A.6.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.001** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **A.6.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **A.6.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **A.6.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.001** by the dates specified in those sections except as specified in **A.6.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **A.6.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.001** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.001** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****B. Emission Unit S2.004**

System 04 – 24.5 MMBtu/hr Nebraska Diesel Fired Boiler – Building 103-6		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.004	24.5 MMBtu/hr Nebraska Boiler, Model NS-B-34, Serial 2D1733, Building 103-6	4,269,916	359,106

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.004** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 40.0 feet
Stack Diameter: 2.08 feet
Stack Temperature: 500.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.004** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.004** shall not exceed **175.0 gallons** per hour, averaged over a calendar day.
 - c. The maximum allowable annual fuel consumption rate shall not exceed the value under **Section VII.D.1.b.** of this operating permit.
 - d. Hours
 - (1) **S2.004** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.004** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.70** pounds per hour, nor more than **3.07** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.35** pounds per hour, nor more than **1.53** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.088** pounds per hour, nor more than **0.38** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.075** pounds per hour, nor more than **0.33** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **3.85** pounds per hour, nor more than **16.9** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **2.63** pounds per hour, nor more than **11.5** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.14** pounds per hour, nor more than **0.61** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.001** shall not equal or exceed **20** percent.
 - i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.004** shall not exceed **0.49** pounds per MMBtu.
 - j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.004** shall not exceed **17.2** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

B. Emission Unit S2.004 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.004** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.004** for each calendar day.
- e. Conduct and record an observation of visible emissions (excluding water vapor) on the exhaust stack of **S2.004** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.
- f. Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
- g. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- h. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- i. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- j. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

B. Emission Unit S2.004 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)
 - a. Compliance Dates (40 CFR Part 63.11196)
The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.004**. (40 CFR 63.11196(b))
 - b. Emission Limits and Work Practice Standards (40 CFR 63.11201)
 - (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
 - (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.004** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
 - (3) The standards mentioned in **B.6.b.** of this section apply at all times **S2.004** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.004** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

B. Emission Unit S2.004 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **B.6.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.004** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (c)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

B. Emission Unit S2.004 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **B.6.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.004** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.004**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

B. Emission Unit S2.004 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **B.6.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

B. Emission Unit S2.004 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (6) The Permittee must conduct a performance tune-up according to **B.6.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (7) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **B.6.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **B.6.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

B. Emission Unit S2.004 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (8) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **B.6.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.004** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **B.6.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **B.6.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **B.6.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.004** by the dates specified in those sections except as specified in **B.6.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

B. Emission Unit S2.004 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **B.6.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.004** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.004** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****C. Emission Unit S2.011**

System 07 – 18.5 MMBtu/hr Cleaver Brooks Diesel Fired Boiler - Building 117-2		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.011	18.5 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CB-100-400, Serial L89956, Building 117-2	4,273,210	356,150

1. Air Pollution Control Equipment (NAC 445B.3405)

- S2.011** has no add-on controls.
- Descriptive Stack Parameters
Stack Height: 55.0 feet
Stack Diameter: 2.04 feet
Stack Temperature: 500.0 °F

2. Operating Parameters (NAC 445B.3405)

- S2.011** may consume only **diesel**.
- The maximum allowable fuel consumption rate for **S2.011** shall not exceed **132.0 gallons** per hour, averaged over a calendar day.
- The maximum allowable annual fuel consumption rate shall not exceed the value under **Section VII.D.1.b.** of this operating permit.
- Hours
(1) **S2.011** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.011** the following pollutants in excess of the following specified limits:

- The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.53** pounds per hour, nor more than **2.31** tons per 12-month rolling period.
- The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.16** tons per 12-month rolling period.
- The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.066** pounds per hour, nor more than **0.29** tons per 12-month rolling period.
- The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.056** pounds per hour, nor more than **0.25** tons per 12-month rolling period.
- The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **2.90** pounds per hour, nor more than **12.7** tons per 12-month rolling period.
- The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.98** pounds per hour, nor more than **8.67** tons per 12-month rolling period.
- The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.11** pounds per hour, nor more than **0.46** tons per 12-month rolling period.
- NAC 445B.22017 – The opacity from the **S2.011** shall not equal or exceed **20** percent.
- NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.011** shall not exceed **0.52** pounds per MMBtu.
- NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.011** shall not exceed **12.9** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.011** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.011** for each calendar day.
- e. Conduct and record an observation of visible emissions (excluding water vapor) on the exhaust stack of **S2.011** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack of **S2.011**.
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.
- f. Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
- g. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- h. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- i. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- j. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

(1) Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.011**. (40 CFR 63.11196(b))

(2) Emission Limits and Work Practice Standards (40 CFR 63.11201)

(a) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)

(b) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):

- (i) A visual inspection of the boiler system;
- (ii) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
- (iii) An inventory of major energy use systems consuming energy from **S2.011** and which are under control of the Permittee;
- (iv) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
- (v) A list of major energy conservation measures that are within the Permittee's control;
- (vi) A list of the energy savings potential of the energy conservation measures identified; and
- (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

(c) The standards mentioned in **C.5.b.** of this section apply at all times **S2.011** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))

(3) General Compliance Requirements (40 CFR 63.11205)

(a) The Permittee at all times must operate and maintain **S2.011** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(3) General Compliance Requirements (40 CFR 63.11205) (continued)

- (b) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
- (c) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **C.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.011** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (i) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (I) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (II) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (III) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (IV) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (V) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (VI) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(3) General Compliance Requirements (40 CFR 63.11205)

(c) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **C.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.011** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)

(ii) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))

(iii) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))

(4) Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)

(a) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))

(b) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.011**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))

(c) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))

(d) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))

(e) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(4) Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)

- (f) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
- (g) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
- (h) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))

(5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)

- (a) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **C.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
- (b) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
- (c) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
- (d) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)

- (e) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d)) (f) The Permittee must conduct a performance tune-up according to **C.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
- (g) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **C.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **C.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (I) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (II) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)

(g) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **C.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b)) (continued)

(vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **C.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6)) (continued)

(III) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))

(vii) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))

(h) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **C.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.011** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))

(i) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **C.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))

(I) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))

(II) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))

(III) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))

(ii) In the Permittee's site-specific monitoring plan, the Permittee must also address **C.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))

(I) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))

(II) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))

(III) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(6) Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)

- (a) The Permittee must submit the notifications specified in **C.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (i) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.011** by the dates specified in those sections except as specified in **C.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (ii) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (iii) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))
 - (iv) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.011** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (v) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (b) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.011** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (c) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (d) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (e) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c)

(1) Applicability and Delegation of Authority (40 CFR 60.40c)

The Permittee is not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this 40 CFR Part 50 Subpart Dc during periods of combustion research, as defined in 40 CFR Part 60.41c. (40 CFR 60.40c(c))

(2) Standards for Sulfur Dioxide (SO₂) (40 CFR 60.42c)

(a) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of **215 ng/J (0.50 lb/MMBtu)** heat input from oil; or, as an alternative, the Permittee shall not combust oil that contains greater than **0.5** weight percent sulfur. The percent reduction requirements are not applicable. (40 CFR 60.42c(d))

(b) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of the following (40 CFR 60.42c(e)):

(i) The emission limit determined according to the following formula for any affected facility that combusts coal, oil, or coal and oil with any other fuel (40 CFR 60.42c(e)(2)):

$$E_s = \frac{(K_a H_a + K_b H_b + K_c H_c)}{(H_a + H_b + H_c)}$$

Where:

E_s = SO₂ emission limit, expressed in hg/J or lb/MMBtu heat input;

K_a = 520 ng/J (1.2 lb/MMBtu);

K_b = 260 ng/J (0.60 lb/MMBtu);

K_c = 215 ng/J (0.50 lb/MMBtu);

H_a = Heat input from the combustion of coal, except coal combusted in an affected facility subject to paragraph (b)(2) of this section, in Joules (J) [MMBtu];

H_b = Heat input from the combustion of coal in an affected facility subject to 40 CFR Part 60.42c(b)(2), in J (MMBtu); and

H_c = Heat input from the combustion oil, in J (MMBtu).

(c) Reduction in the potential SO₂ emission rate through fuel pretreatment is not credited toward the percent reduction requirement under 40 CFR Part 60.42c(b)(2) unless (40 CFR 60.42c(f)):

(i) Fuel pretreatment results in a 50 percent (0.50) or greater reduction in the potential SO₂ emission rate; and (40 CFR 60.42c(f)(1))

(ii) Emissions from the pretreated fuel (without either combustion or post-combustion SO₂ control) are equal to or less than the emission limits specified under 40 CFR Part 60.42c(b)(2). (40 CFR 60.42c(f)(2))

(d) Except as provided in 40 CFR Part 60.42c(h), compliance with the percent reduction requirements, fuel oil sulfur limits, and emission limits under 40 CFR Part 60.42 shall be determined on a 30-day rolling average basis. (40 CFR 60.42c(g))

(e) Compliance with the emission limits or fuel oil sulfur limits under 40 CFR Part 60.42c may be determined based on a certification from the fuel supplier, as described under 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.42c(h))

(f) The SO₂ emission limits, fuel oil sulfur limits, and percent reduction requirements under 40 CFR 60.42c apply at all times, including periods of startup, shutdown, and malfunction. (40 CFR 60.42c(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)

(3) Compliance and Performance Test Methods and Procedures for Sulfur Dioxide (40 CFR 60.44c)

- (a) Except as provided in 40 CFR Parts 60.44c(g) and (h) and 40 CFR Part 60.8(b), performance tests required under 40 CFR Part 60.8 shall be conducted following the procedures specified in 40 CFR Parts 60.44c(b), 60.44c(c), 60.44c(d), 60.44c(e), and 60.44c(f), as applicable. 40 CFR Part 60.8(f) does not apply to 40 CFR Part 60.44c. The 30-day notice required in 40 CFR Part 60.8(d) applies only to the initial performance test unless otherwise specified by the Administrator. (40 CFR 60.44c(a))
- (b) The initial performance test required under 40 CFR Part 60.8 shall be conducted over 30 consecutive operating days of the steam generating unit. Compliance with the percent reduction requirements and SO₂ emission limits under 40 CFR 60.42c shall be determined using a 30-day average. The first operating day included in the initial performance test shall be scheduled within 30 days after achieving the maximum production rate, but not later than 180 days after the initial startup. The steam generating unit load during the 30-day period does not have to be the maximum design heat input capacity, but must be representative of future operating conditions. (40 CFR 60.44c(b))
- (c) After the initial performance test required under 40 CFR Part 60.44c(b) and 40 CFR Part 60.8, compliance with the percent reduction requirements and SO₂ emission limits under 40 CFR Part 60.42c is based on the average percent reduction and the average SO₂ emission rates for 30 consecutive steam generating unit operating days. A separate performance test is completed at the end of each steam generating unit operating day, and a new 30-day average percent reduction and SO₂ emission rate are calculated to show compliance with the standard. (40 CFR 60.44c(c))
- (d) The procedures in 40 CFR Part 60 Appendix A Method 19 are used to determine the hourly SO₂ emission rate (E_{ho}) and the 30-day average SO₂ emission rate (E_{ao}). The hourly averages used to compute the 30-day averages are obtained from the CEMS. Method 19 shall be used to calculate E_{ao} when using daily fuel sampling or 40 CFR Part 60 Appendix A Method 6B. (40 CFR 60.44c(d))
- (e) If the Permittee seeks to demonstrate compliance with the fuel oil sulfur limits under 40 CFR Part 60.42c based on shipment fuel sampling, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the steam generating unit to demonstrate that the oil contains 0.5 weight percent sulfur or less. Thereafter, the Permittee shall sample the oil in the fuel tank after each new shipment of oil is received, as described under 40 CFR Part 60.46c(d)(2). (40 CFR 60.44c(g))
- (f) If the Permittee seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described in 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.44c(h))
- (g) The Permittee shall use all valid SO₂ emissions data in calculating %P_s and E_{ho} under 40 CFR Parts 60.44c(d) or 60.44c(e), as applicable, whether or not the minimum emissions data requirements under 40 CFR Part 60.46c(f) are achieved. All valid emissions data, including valid data collected during periods of startup, shutdown, and malfunction, shall be used in calculating %P_s or E_{ho} pursuant to 40 CFR Parts 60.44c(d) or 60.44c(e), as applicable. (40 CFR 60.44c(j))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)

- b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c)
 - (a) Except as provided in 40 CFR Parts 60.46c(d) and (e), the Permittee shall install, calibrate, maintain, and operate a CEMS for measuring SO₂ concentrations and either O₂ or CO₂ concentrations at the outlet of the SO₂ control device (or the outlet of the steam generating unit if no SO₂ control device is used), and shall record the output of the system. The Permittee who is subject to the percent reduction requirements under 40 CFR Part 60.42c shall measure SO₂ concentrations and either O₂ or CO₂ concentrations at both the inlet and outlet of the SO₂ control device. (40 CFR 60.46c(a))
 - (b) The 1-hour average SO₂ emission rates measured by a CEMS shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR Part 60.42c. Each 1-hour average SO₂ emission rate must be based on at least 30 minutes of operation, and shall be calculated using the data points required under 40 CFR Part 60.13(h)(2). Hourly SO₂ emission rates are not calculated if the affected facility is operated less than 30 minutes in a 1-hour period and are not counted toward determination of a steam generating unit operating day. (40 CFR 60.46c(b))
 - (c) The procedures under 40 CFR Part 60.13 shall be followed for installation, evaluation, and operation of the CEMS. (40 CFR 60.46c(c))
 - (i) All CEMS shall be operated in accordance with the applicable procedures under 40 CFR Part 60 Appendix B Performance Specifications 1, 2, and 3. (40 CFR 60.46c(c)(1))
 - (ii) Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with 40 CFR Part 60 Appendix F Procedure 1. (40 CFR 60.46c(c)(2))
 - (iii) For affected facilities subject to the percent reduction requirements under 40 CFR Part 60.42c, the span value of the SO₂ CEMS at the inlet to the SO₂ control device shall be 125 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted, and the span value of the SO₂ CEMS at the outlet from the SO₂ control device shall be 50 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted. (40 CFR 60.46c(c)(3))
 - (iv) For affected facilities that are not subject to the percent reduction requirements of 40 CFR Part 60.42c, the span value of the SO₂ CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) shall be 125 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted. (40 CFR 60.46c(c)(4))
 - (d) As an alternative to operating a CEMS at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by using 40 CFR Part 60 Appendix A Method 6B. Fuel sampling shall be conducted pursuant to either 40 CFR Parts 60.46c(d)(1) or (d)(2). 40 CFR Part 60 Appendix A Method 6B shall be conducted pursuant to 40 CFR Part 60.46c(d)(3). (40 CFR 60.46c(d))
 - (i) For affected facilities combusting coal or oil, coal or oil samples shall be collected daily in an as-fired condition at the inlet to the steam generating unit and analyzed for sulfur content and heat content according the 40 CFR Part 60 Appendix A Method 19. 40 CFR Part 60 Appendix A Method 19 provides procedures for converting these measurements into the format to be used in calculating the average SO₂ input rate. (40 CFR 60.46c(d)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)

- b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c) (continued)
 - (d) As an alternative to operating a CEMS at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by using 40 CFR Part 60 Appendix A Method 6B. Fuel sampling shall be conducted pursuant to either 40 CFR Parts 60.46c(d)(1) or (d)(2). 40 CFR Part 60 Appendix A Method 6B shall be conducted pursuant to 40 CFR Part 60.46c(d)(3). (40 CFR 60.46c(d)) (continued)
 - (ii) As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The Permittee shall analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the Permittee shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less. (40 CFR 60.46c(d)(2))
 - (iii) 40 CFR Part 60 Appendix A Method 6B may be used in lieu of CEMS to measure SO₂ at the inlet or outlet of the SO₂ control system. An initial stratification test is required to verify the adequacy of the 40 CFR Part 60 Appendix A Method 6B sampling location. The stratification test shall consist of three paired runs of a suitable SO₂ and CO₂ measurement train operated at the candidate location and a second similar train operated according to the procedures in 40 CFR Part 3.2 and the applicable procedures in 40 CFR Part 60 Appendix B Performance Specification 2 Section 7. 40 CFR Part 60 Appendix B Method 6B, 40 CFR Part 60 Appendix A Method 6A, or a combination of 40 CFR Part 60 Appendix A Methods 6 and 3 or 40 CFR Part 60 Appendix A Methods 6C and 3A are suitable measurement techniques. If 40 CFR Part 60 Appendix A Method 6B is used for the second train, sampling time and timer operation may be adjusted for the stratification test as long as an adequate sample volume is collected; however, both sampling trains are to be operated similarly. For the location to be adequate for 40 CFR Part 60 Appendix A Method 6B 24-hour tests, the mean of the absolute difference between the three paired runs must be less than 10 percent (0.10). (40 CFR 60.46c(d)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)

(4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c) (continued)

(e) The monitoring requirements of 40 CFR Parts 60.46c(a) and 60.46c(d) shall not apply to affected facilities subject to 40 CFR Parts 60.42c(h) (1), (2), or (3) where the Permittee seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, as described under 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.46c(e))

(f) The Permittee operating a CEMS pursuant to 40 CFR Part 60.46c(a), or conducting as-fired fuel sampling pursuant to 40 CFR Part 60.46c(d)(1), shall obtain emission data for at least 75 percent of the operating hours in at least 22 out of 30 successive steam generating unit operating days. If this minimum data requirement is not met with a single monitoring system, the Permittee shall supplement the emission data with data collected with other monitoring systems as approved by the Administrator. (40 CFR 60.46c(f))

(5) Reporting and Recordkeeping Requirements (40 CFR 60.48c)

(a) The Permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR Part 60.7. This notification shall include (40 CFR 60.48c(a)):

(i) The design heat input capacity and identification of fuels to be combusted. (40 CFR 60.48c(a)(1))

(ii) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR Parts 60.42c, or 60.43c. (40 CFR 60.48c(a)(2))

(iii) The annual capacity factor at which the Permittee operates based on all fuels fired and based on each individual fuel fired. (40 CFR 60.48c(a)(3))

(iv) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the Permittee to submit additional information concerning the control device. The Permittee is subject to the provisions of 40 CFR Parts 60.42c(a) or 60.42c(b)(1), unless and until this determination is made by the Administrator. (40 CFR 60.48c(a)(4))

(b) The Permittee shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in 40 CFR Part 60 Appendix B. (40 CFR 60.48c(b))

(c) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall submit reports to the Administrator. (40 CFR 60.48c(d))

(d) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall keep records and submit reports as required under 40 CFR Part 60.48c(d), including the following information, as applicable. (40 CFR 60.48c(e))

(i) Calendar dates covered in the reporting period. (40 CFR 60.48c(e)(1))

(ii) Each 30-day average SO₂ emission rate (ng/J or lb/MMBtu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken. (40 CFR 60.48c(e)(2))

(iii) Each 30-day average percent of potential SO₂ emission rate calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of the corrective actions taken. (40 CFR 60.48c(e)(3))

(iv) Identification of any steam generating unit operating days for which SO₂ or diluent (O₂ or CO₂) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken. (40 CFR 60.48c(e)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (5) Reporting and Recordkeeping Requirements (40 CFR 60.48c) (continued)
 - (d) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall keep records and submit reports as required under 40 CFR Part 60.48c(d), including the following information, as applicable. (40 CFR 60.48c(e)) (continued)
 - (v) Identification of any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which coal or oil were not combusted in the steam generating unit. (40 CFR 60.48c(e)(5))
 - (vi) Identification of the F factor used in calculations, method of determination, and type of fuel combusted. (40 CFR 60.48c(e)(6))
 - (vii) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under 40 CFR Parts 60.48c(f)(1), 60.48c(f)(2), 60.48c(f)(3), or 60.48c(f)(4), as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the Permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period. (40 CFR 60.48c(e)(11))
 - (e) Fuel supplier certification shall include the following information: (40 CFR 60.48c(f))
 - (i) For distillate oil: (40 CFR 60.48c(f)(1))
 - (I) The name of the oil supplier; (40 CFR 60.48c(f)(1)(i))
 - (II) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR Part 60.41c; and (40 CFR 60.48c(f)(1)(ii))
 - (III) The sulfur content or maximum sulfur content of the oil. (40 CFR 60.48c(f)(1)(iii))
 - (ii) For residual oil: (40 CFR 60.48c(f)(2))
 - (I) The name of the oil supplier; (40 CFR 60.48c(f)(2)(i))
 - (II) The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location; (40 CFR 60.48c(f)(2)(ii))
 - (III) The sulfur content of the oil from which the shipment came (or of the shipment itself); and (40 CFR 60.48c(f)(2)(iii))
 - (IV) The method used to determine the sulfur content of the oil. (40 CFR 60.48c(f)(2)(iv))
 - (f) Except as provided under 40 CFR Parts 60.48c(g)(2) and 60.48c(g)(3), the Permittee shall record and maintain records of the amount of each fuel combusted during each operating day. (40 CFR 60.48c(g)(1))
 - (i) As an alternative to meeting the requirements of 40 CFR Part 60.48c(g)(1), the Permittee that combusts only natural gas, wood, fuels using fuel certification in 40 CFR Part 60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. (40 CFR 60.48c(g)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

C. Emission Unit S2.011 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (5) Reporting and Recordkeeping Requirements (40 CFR 60.48c) (continued)
 - (f) Except as provided under 40 CFR Parts 60.48c(g)(2) and 60.48c(g)(3), the Permittee shall record and maintain records of the amount of each fuel combusted during each operating day. (40 CFR 60.48c(g)(1)) (continued)
 - (ii) As an alternative to meeting the requirements of 40 CFR Part 60.48c(g)(1), the Permittee located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to 40 CFR Part 60 Subpart Dc) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR Part 60.42c to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. (40 CFR 60.48c(g)(3))
 - (g) The Permittee shall calculate the annual capacity factor individually for each fuel combusted. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of the calendar month. (40 CFR 60.48c(h))
 - (h) All records required under 40 CFR Part 60.48c shall be maintained by the Permittee for a period of two years following the date of such record. (40 CFR 60.48c(i))
 - (i) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. (40 CFR 60.48c(j))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****D. Emission Unit S2.014**

System 08 – 18.5 MMBtu/hr Cleaver Brooks Diesel Fired Boiler - Building 117-2		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.014	18.5 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CB-100-400, Serial L095723, Building 117-2	4,273,210	356,150

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.014** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 55.0 feet
Stack Diameter: 2.04 feet
Stack Temperature: 500.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.014** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.014** shall not exceed **132.0 gallons** per hour, averaged over a calendar day.
 - c. The maximum allowable annual fuel consumption rate shall not exceed the value under **Section VII.D.1.b.** of this operating permit.
 - d. Hours
 - (1) **S2.014** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.014** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.53** pounds per hour, nor more than **2.31** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.16** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.066** pounds per hour, nor more than **0.29** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.056** pounds per hour, nor more than **0.25** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **2.90** pounds per hour, nor more than **12.7** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.98** pounds per hour, nor more than **8.67** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.11** pounds per hour, nor more than **0.46** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.014** shall not equal or exceed **20** percent.
 - i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.014** shall not exceed **0.52** pounds per MMBtu.
 - j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.014** shall not exceed **12.9** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.014** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.014** for each calendar day.
- e. Conduct and record an observation of visible emissions (excluding water vapor) on the exhaust stack of **S2.014** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack of **S2.014**.
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.
- f. Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
- g. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- h. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- i. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- j. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

(1) Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.014**. (40 CFR 63.11196(b))

(2) Emission Limits and Work Practice Standards (40 CFR 63.11201)

(a) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)

(b) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):

- (i) A visual inspection of the boiler system;
- (ii) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
- (iii) An inventory of major energy use systems consuming energy from **S2.014** and which are under control of the Permittee;
- (iv) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
- (v) A list of major energy conservation measures that are within the Permittee's control;
- (vi) A list of the energy savings potential of the energy conservation measures identified; and
- (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

(c) The standards mentioned in **D.5.b.** of this section apply at all times **S2.014** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))

(3) General Compliance Requirements (40 CFR 63.11205)

(a) The Permittee at all times must operate and maintain **S2.014** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require that the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(3) General Compliance Requirements (40 CFR 63.11205) (continued)

- (b) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
- (c) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **D.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.014** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (i) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (I) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (II) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (III) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (IV) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (V) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (VI) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(3) General Compliance Requirements (40 CFR 63.11205)

(c) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **D.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.014** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)

(ii) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))

(iii) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))

(4) Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)

(a) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))

(b) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.014**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))

(c) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))

(d) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))

(e) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(4) Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)

- (f) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
- (g) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
- (h) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))

(5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)

- (a) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **D.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
- (b) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
- (c) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
- (d) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)

- (e) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d)) (f) The Permittee must conduct a performance tune-up according to **D.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
- (g) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **D.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **D.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (I) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (II) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)

(g) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **D.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b)) (continued)

(vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **D.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6)) (continued)

(III) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))

(vii) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))

(h) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **D.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.014** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))

(i) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **D.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))

(I) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))

(II) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))

(III) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))

(ii) In the Permittee's site-specific monitoring plan, the Permittee must also address **D.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))

(I) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))

(II) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))

(III) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(6) Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)

- (a) The Permittee must submit the notifications specified in **D.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (i) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.014** by the dates specified in those sections except as specified in **D.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (ii) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (iii) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))
 - (iv) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.014** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (v) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (b) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.014** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (c) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (d) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (e) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c)

(1) Applicability and Delegation of Authority (40 CFR 60.40c)

The Permittee is not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this 40 CFR Part 50 Subpart Dc during periods of combustion research, as defined in 40 CFR Part 60.41c. (40 CFR 60.40c(c))

(2) Standards for Sulfur Dioxide (SO₂) (40 CFR 60.42c)

(a) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of **215 ng/J (0.50 lb/MMBtu)** heat input from oil; or, as an alternative, the Permittee shall not combust oil that contains greater than **0.5** weight percent sulfur. The percent reduction requirements are not applicable. (40 CFR 60.42c(d))

(b) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of the following (40 CFR 60.42c(e)):

(i) The emission limit determined according to the following formula for any affected facility that combusts coal, oil, or coal and oil with any other fuel (40 CFR 60.42c(e)(2)):

$$E_s = \frac{(K_a H_a + K_b H_b + K_c H_c)}{(H_a + H_b + H_c)}$$

Where:

E_s = SO₂ emission limit, expressed in hg/J or lb/MMBtu heat input;

K_a = 520 ng/J (1.2 lb/MMBtu);

K_b = 260 ng/J (0.60 lb/MMBtu);

K_c = 215 ng/J (0.50 lb/MMBtu);

H_a = Heat input from the combustion of coal, except coal combusted in an affected facility subject to paragraph (b)(2) of this section, in Joules (J) [MMBtu];

H_b = Heat input from the combustion of coal in an affected facility subject to 40 CFR Part 60.42c(b)(2), in J (MMBtu); and

H_c = Heat input from the combustion oil, in J (MMBtu).

(c) Reduction in the potential SO₂ emission rate through fuel pretreatment is not credited toward the percent reduction requirement under 40 CFR Part 60.42c(b)(2) unless (40 CFR 60.42c(f)):

(i) Fuel pretreatment results in a 50 percent (0.50) or greater reduction in the potential SO₂ emission rate; and (40 CFR 60.42c(f)(1))

(ii) Emissions from the pretreated fuel (without either combustion or post-combustion SO₂ control) are equal to or less than the emission limits specified under 40 CFR Part 60.42c(b)(2). (40 CFR 60.42c(f)(2))

(d) Except as provided in 40 CFR Part 60.42c(h), compliance with the percent reduction requirements, fuel oil sulfur limits, and emission limits under 40 CFR Part 60.42 shall be determined on a 30-day rolling average basis. (40 CFR 60.42c(g))

(e) Compliance with the emission limits or fuel oil sulfur limits under 40 CFR Part 60.42c may be determined based on a certification from the fuel supplier, as described under 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.42c(h))

(f) The SO₂ emission limits, fuel oil sulfur limits, and percent reduction requirements under 40 CFR 60.42c apply at all times, including periods of startup, shutdown, and malfunction. (40 CFR 60.42c(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)

(3) Compliance and Performance Test Methods and Procedures for Sulfur Dioxide (40 CFR 60.44c)

- (a) Except as provided in 40 CFR Parts 60.44c(g) and (h) and 40 CFR Part 60.8(b), performance tests required under 40 CFR Part 60.8 shall be conducted following the procedures specified in 40 CFR Parts 60.44c(b), 60.44c(c), 60.44c(d), 60.44c(e), and 60.44c(f), as applicable. 40 CFR Part 60.8(f) does not apply to 40 CFR Part 60.44c. The 30-day notice required in 40 CFR Part 60.8(d) applies only to the initial performance test unless otherwise specified by the Administrator. (40 CFR 60.44c(a))
- (b) The initial performance test required under 40 CFR Part 60.8 shall be conducted over 30 consecutive operating days of the steam generating unit. Compliance with the percent reduction requirements and SO₂ emission limits under 40 CFR 60.42c shall be determined using a 30-day average. The first operating day included in the initial performance test shall be scheduled within 30 days after achieving the maximum production rate, but not later than 180 days after the initial startup. The steam generating unit load during the 30-day period does not have to be the maximum design heat input capacity, but must be representative of future operating conditions. (40 CFR 60.44c(b))
- (c) After the initial performance test required under 40 CFR Part 60.44c(b) and 40 CFR Part 60.8, compliance with the percent reduction requirements and SO₂ emission limits under 40 CFR Part 60.42c is based on the average percent reduction and the average SO₂ emission rates for 30 consecutive steam generating unit operating days. A separate performance test is completed at the end of each steam generating unit operating day, and a new 30-day average percent reduction and SO₂ emission rate are calculated to show compliance with the standard. (40 CFR 60.44c(c))
- (d) The procedures in 40 CFR Part 60 Appendix A Method 19 are used to determine the hourly SO₂ emission rate (E_{ho}) and the 30-day average SO₂ emission rate (E_{ao}). The hourly averages used to compute the 30-day averages are obtained from the CEMS. Method 19 shall be used to calculate E_{ao} when using daily fuel sampling or 40 CFR Part 60 Appendix A Method 6B. (40 CFR 60.44c(d))
- (e) If the Permittee seeks to demonstrate compliance with the fuel oil sulfur limits under 40 CFR Part 60.42c based on shipment fuel sampling, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the steam generating unit to demonstrate that the oil contains 0.5 weight percent sulfur or less. Thereafter, the Permittee shall sample the oil in the fuel tank after each new shipment of oil is received, as described under 40 CFR Part 60.46c(d)(2). (40 CFR 60.44c(g))
- (f) If the Permittee seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described in 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.44c(h))
- (g) The Permittee shall use all valid SO₂ emissions data in calculating %P_s and E_{ho} under 40 CFR Parts 60.44c(d) or 60.44c(e), as applicable, whether or not the minimum emissions data requirements under 40 CFR Part 60.46c(f) are achieved. All valid emissions data, including valid data collected during periods of startup, shutdown, and malfunction, shall be used in calculating %P_s or E_{ho} pursuant to 40 CFR Parts 60.44c(d) or 60.44c(e), as applicable. (40 CFR 60.44c(j))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)

(4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c)

- (a) Except as provided in 40 CFR Parts 60.46c(d) and (e), the Permittee shall install, calibrate, maintain, and operate a CEMS for measuring SO₂ concentrations and either O₂ or CO₂ concentrations at the outlet of the SO₂ control device (or the outlet of the steam generating unit if no SO₂ control device is used), and shall record the output of the system. The Permittee who is subject to the percent reduction requirements under 40 CFR Part 60.42c shall measure SO₂ concentrations and either O₂ or CO₂ concentrations at both the inlet and outlet of the SO₂ control device. (40 CFR 60.46c(a))
- (b) The 1-hour average SO₂ emission rates measured by a CEMS shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR Part 60.42c. Each 1-hour average SO₂ emission rate must be based on at least 30 minutes of operation, and shall be calculated using the data points required under 40 CFR Part 60.13(h)(2). Hourly SO₂ emission rates are not calculated if the affected facility is operated less than 30 minutes in a 1-hour period and are not counted toward determination of a steam generating unit operating day. (40 CFR 60.46c(b))
- (c) The procedures under 40 CFR Part 60.13 shall be followed for installation, evaluation, and operation of the CEMS. (40 CFR 60.46c(c))
 - (i) All CEMS shall be operated in accordance with the applicable procedures under 40 CFR Part 60 Appendix B Performance Specifications 1, 2, and 3. (40 CFR 60.46c(c)(1))
 - (ii) Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with 40 CFR Part 60 Appendix F Procedure 1. (40 CFR 60.46c(c)(2))
 - (iii) For affected facilities subject to the percent reduction requirements under 40 CFR Part 60.42c, the span value of the SO₂ CEMS at the inlet to the SO₂ control device shall be 125 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted, and the span value of the SO₂ CEMS at the outlet from the SO₂ control device shall be 50 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted. (40 CFR 60.46c(c)(3))
 - (iv) For affected facilities that are not subject to the percent reduction requirements of 40 CFR Part 60.42c, the span value of the SO₂ CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) shall be 125 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted. (40 CFR 60.46c(c)(4))
- (d) As an alternative to operating a CEMS at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by using 40 CFR Part 60 Appendix A Method 6B. Fuel sampling shall be conducted pursuant to either 40 CFR Parts 60.46c(d)(1) or (d)(2). 40 CFR Part 60 Appendix A Method 6B shall be conducted pursuant to 40 CFR Part 60.46c(d)(3). (40 CFR 60.46c(d))
 - (i) For affected facilities combusting coal or oil, coal or oil samples shall be collected daily in an as-fired condition at the inlet to the steam generating unit and analyzed for sulfur content and heat content according the 40 CFR Part 60 Appendix A Method 19. 40 CFR Part 60 Appendix A Method 19 provides procedures for converting these measurements into the format to be used in calculating the average SO₂ input rate. (40 CFR 60.46c(d)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

- b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c) (continued)
 - (d) As an alternative to operating a CEMS at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by using 40 CFR Part 60 Appendix A Method 6B. Fuel sampling shall be conducted pursuant to either 40 CFR Parts 60.46c(d)(1) or (d)(2). 40 CFR Part 60 Appendix A Method 6B shall be conducted pursuant to 40 CFR Part 60.46c(d)(3). (40 CFR 60.46c(d)) (continued)
 - (ii) As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The Permittee shall analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the Permittee shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less. (40 CFR 60.46c(d)(2))
 - (iii) 40 CFR Part 60 Appendix A Method 6B may be used in lieu of CEMS to measure SO₂ at the inlet or outlet of the SO₂ control system. An initial stratification test is required to verify the adequacy of the 40 CFR Part 60 Appendix A Method 6B sampling location. The stratification test shall consist of three paired runs of a suitable SO₂ and CO₂ measurement train operated at the candidate location and a second similar train operated according to the procedures in 40 CFR Part 3.2 and the applicable procedures in 40 CFR Part 60 Appendix B Performance Specification 2 Section 7. 40 CFR Part 60 Appendix B Method 6B, 40 CFR Part 60 Appendix A Method 6A, or a combination of 40 CFR Part 60 Appendix A Methods 6 and 3 or 40 CFR Part 60 Appendix A Methods 6C and 3A are suitable measurement techniques. If 40 CFR Part 60 Appendix A Method 6B is used for the second train, sampling time and timer operation may be adjusted for the stratification test as long as an adequate sample volume is collected; however, both sampling trains are to be operated similarly. For the location to be adequate for 40 CFR Part 60 Appendix A Method 6B 24-hour tests, the mean of the absolute difference between the three paired runs must be less than 10 percent (0.10). (40 CFR 60.46c(d)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)

(4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c) (continued)

- (e) The monitoring requirements of 40 CFR Parts 60.46c(a) and 60.46c(d) shall not apply to affected facilities subject to 40 CFR Parts 60.42c(h) (1), (2), or (3) where the Permittee seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, as described under 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.46c(e))
- (f) The Permittee operating a CEMS pursuant to 40 CFR Part 60.46c(a), or conducting as-fired fuel sampling pursuant to 40 CFR Part 60.46c(d)(1), shall obtain emission data for at least 75 percent of the operating hours in at least 22 out of 30 successive steam generating unit operating days. If this minimum data requirement is not met with a single monitoring system, the Permittee shall supplement the emission data with data collected with other monitoring systems as approved by the Administrator. (40 CFR 60.46c(f))

(5) Reporting and Recordkeeping Requirements (40 CFR 60.48c)

- (a) The Permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR Part 60.7. This notification shall include (40 CFR 60.48c(a)):
 - (i) The design heat input capacity and identification of fuels to be combusted. (40 CFR 60.48c(a)(1))
 - (ii) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR Parts 60.42c, or 60.43c. (40 CFR 60.48c(a)(2))
 - (iii) The annual capacity factor at which the Permittee operates based on all fuels fired and based on each individual fuel fired. (40 CFR 60.48c(a)(3))
 - (iv) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the Permittee to submit additional information concerning the control device. The Permittee is subject to the provisions of 40 CFR Parts 60.42c(a) or 60.42c(b)(1), unless and until this determination is made by the Administrator. (40 CFR 60.48c(a)(4))
- (b) The Permittee shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in 40 CFR Part 60 Appendix B. (40 CFR 60.48c(b))
- (c) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall submit reports to the Administrator. (40 CFR 60.48c(d))
- (d) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall keep records and submit reports as required under 40 CFR Part 60.48c(d), including the following information, as applicable. (40 CFR 60.48c(e))
 - (i) Calendar dates covered in the reporting period. (40 CFR 60.48c(e)(1))
 - (ii) Each 30-day average SO₂ emission rate (ng/J or lb/MMBtu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken. (40 CFR 60.48c(e)(2))
 - (iii) Each 30-day average percent of potential SO₂ emission rate calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of the corrective actions taken. (40 CFR 60.48c(e)(3))
 - (iv) Identification of any steam generating unit operating days for which SO₂ or diluent (O₂ or CO₂) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken. (40 CFR 60.48c(e)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)

(5) Reporting and Recordkeeping Requirements (40 CFR 60.48c) (continued)

- (d) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall keep records and submit reports as required under 40 CFR Part 60.48c(d), including the following information, as applicable. (40 CFR 60.48c(e)) (continued)
 - (v) Identification of any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which coal or oil were not combusted in the steam generating unit. (40 CFR 60.48c(e)(5))
 - (vi) Identification of the F factor used in calculations, method of determination, and type of fuel combusted. (40 CFR 60.48c(e)(6))
 - (vii) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under 40 CFR Parts 60.48c(f)(1), 60.48c(f)(2), 60.48c(f)(3), or 60.48c(f)(4), as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the Permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period. (40 CFR 60.48c(e)(11))
- (e) Fuel supplier certification shall include the following information: (40 CFR 60.48c(f))
 - (i) For distillate oil: (40 CFR 60.48c(f)(1))
 - (I) The name of the oil supplier; (40 CFR 60.48c(f)(1)(i))
 - (II) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR Part 60.41c; and (40 CFR 60.48c(f)(1)(ii))
 - (III) The sulfur content or maximum sulfur content of the oil. (40 CFR 60.48c(f)(1)(iii))
 - (ii) For residual oil: (40 CFR 60.48c(f)(2))
 - (I) The name of the oil supplier; (40 CFR 60.48c(f)(2)(i))
 - (II) The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location; (40 CFR 60.48c(f)(2)(ii))
 - (III) The sulfur content of the oil from which the shipment came (or of the shipment itself); and (40 CFR 60.48c(f)(2)(iii))
 - (IV) The method used to determine the sulfur content of the oil. (40 CFR 60.48c(f)(2)(iv))
- (f) Except as provided under 40 CFR Parts 60.48c(g)(2) and 60.48c(g)(3), the Permittee shall record and maintain records of the amount of each fuel combusted during each operating day. (40 CFR 60.48c(g)(1))
 - (i) As an alternative to meeting the requirements of 40 CFR Part 60.48c(g)(1), the Permittee that combusts only natural gas, wood, fuels using fuel certification in 40 CFR Part 60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. (40 CFR 60.48c(g)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.014 (continued)

6. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)

(5) Reporting and Recordkeeping Requirements (40 CFR 60.48c) (continued)

- (f) Except as provided under 40 CFR Parts 60.48c(g)(2) and 60.48c(g)(3), the Permittee shall record and maintain records of the amount of each fuel combusted during each operating day. (40 CFR 60.48c(g)(1)) (continued)
- (ii) As an alternative to meeting the requirements of 40 CFR Part 60.48c(g)(1), the Permittee located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to 40 CFR Part 60 Subpart Dc) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR Part 60.42c to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. (40 CFR 60.48c(g)(3))
- (g) The Permittee shall calculate the annual capacity factor individually for each fuel combusted. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of the calendar month. (40 CFR 60.48c(h))
- (h) All records required under 40 CFR Part 60.48c shall be maintained by the Permittee for a period of two years following the date of such record. (40 CFR 60.48c(i))
- (i) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. (40 CFR 60.48c(j))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****E. Emission Unit S2.015**

System 09 – Melt-Out Process		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.015	Melt-Out Process (2 Kettles, Belt Flaker), Building 117-5	4,273,227	355,612

1. Air Pollution Control Equipment (NAC 445B.3405)a. Emissions from **S2.015** shall be controlled by a **Wet Scrubber System (MD-16)**.b. Descriptive Stack Parameters

Stack Height: 68.0 feet

Stack Diameter: 1.17 feet

Stack Temperature: 180.0 °F

Exhaust Flow: 1,856.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)a. The maximum allowable throughput rate for **S2.015** shall not exceed **2.00** tons of **explosives** per hour averaged over a calendar day.b. Hours(1) **S2.015** may operate a total of **24** hours per day.3. Emission Limits (NAC 445B.305, NAC 445B.3405)The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.015** the following pollutants in excess of the following specified limits:a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.080** pounds per hour, nor more than **0.35** tons per 12-month rolling period.b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.080** pounds per hour, nor more than **0.35** tons per 12-month rolling period.c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.080** pounds per hour, nor more than **0.35** tons per 12-month rolling period.d. NAC 445B.22017 – The opacity from **S2.015** shall not equal or exceed **20** percent.e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.015** shall not exceed **6.52** pounds per hour.4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

a. Monitor and record the throughput for **S2.015** for each calendar day.

b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.

c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.

d. Monitor and record the hours of operation for **S2.015** for each calendar day.e. Conduct and record an observation of visible emissions (excluding water vapor) on the **Wet Scrubber System (MD-16)** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.f. Inspect the **Wet Scrubber System (MD-16)** installed on **S2.015** on a **monthly** basis to confirm that the wet scrubber is functioning properly. If the wet scrubber is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the wet scrubber is functioning properly.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

E. Emission Unit S2.015 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Following the determination of the pressure drop value or pressure drop range as required in **5.g.** of this section, monitor and record the pressure drop across **Wet Scrubber System (MD-16)** on a daily basis during operation. A violation of the emission limitations specified in **3.a. through 3.e.** of this section will have been considered to have occurred if the pressure drop across **Wet Scrubber System (MD-16)** is not within the range or is outside the maximum or minimum value established in **5.g.** of this section.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine particulate matter emissions. All particulate captured in the Method 5 and Method 202 test shall be considered PM_{2.5} for determination of compliance. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- e. During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that correspond to compliance with the emission limitations established in **3.a. through 3.e.** of this section, based on a valid performance test. The pressure drop value or pressure drop range will be re-established with the required corresponding performance test.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****F. Emission Unit S2.016**

System 10 – Wash-Out/Steam Out Process		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.016	Wash-Out/Steam-Out Table, Separation Tank, 2 Melt Kettles, Kernelling Machine, Belt Flaker, in Building 117-6	4,272,940	355, 830

1. Air Pollution Control Equipment (NAC 445B.3405)a. Emissions from **S2.016** shall be controlled by a **Wet Scrubber System (WS-24)**.b. Descriptive Stack Parameters

Stack Height: 55.3 feet

Stack Diameter: 1.33 feet

Stack Temperature: 140.0 °F

Exhaust Flow: 3,504.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)a. The maximum allowable throughput rate for **S2.016** shall not exceed **2.00** tons of **explosives** per hour averaged over a calendar day.b. Hours(1) **S2.016** may operate a total of **24** hours per day.3. Emission Limits (NAC 445B.305, NAC 445B.3405)The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.016** the following pollutants in excess of the following specified limits:a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.60** pounds per hour, nor more than **7.01** tons per 12-month rolling period.b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.60** pounds per hour, nor more than **7.01** tons per 12-month rolling period.c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **1.60** pounds per hour, nor more than **7.01** tons per 12-month rolling period.d. NAC 445B.22017 – The opacity from **S2.016** shall not equal or exceed **20** percent.e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.016** shall not exceed **6.52** pounds per hour.4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

a. Monitor and record the throughput for **S2.016** for each calendar day.

b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.

c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.

d. Monitor and record the hours of operation for **S2.016** for each calendar day.e. Conduct and record an observation of visible emissions (excluding water vapor) on the **Wet Scrubber System (WS-24)** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

F. Emission Unit S2.016 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- f. Inspect the **Wet Scrubber System (WS-24)** installed on **S2.016** on a **monthly** basis to confirm that the wet scrubber is functioning properly. If the wet scrubber is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the wet scrubber is functioning properly.
- g. Following the determination of the pressure drop value or pressure drop range as required in **5.g.** of this section, monitor and record the pressure drop across **Wet Scrubber System (WS-24)** on a daily basis during operation. A violation of the emission limitations specified in **3.a. through 3.e.** of this section will have been considered to have occurred if the pressure drop across **Wet Scrubber System (WS-24)** is not within the range or is outside the maximum or minimum value established in **5.g.** of this section.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine particulate matter emissions. All particulate captured in the Method 5 and Method 202 test shall be considered PM_{2.5} for determination of compliance. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- e. During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that correspond to compliance with the emission limitations established in **3.a. through 3.e.** of this section, based on a valid performance test. The pressure drop value or pressure drop range will be re-established with the required corresponding performance test.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****G. Emission Unit S2.017**

System 11 – High Pressure Ambient Temperature Water Wash-Out (West Side)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.017	Wash-Out Turntable, Dewatering Screen, Drying Conveyor, Building 117-6	4,272,920	355,850

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.017** shall be controlled by a **Wet Scrubber System (HC-15)**.
 - b. Descriptive Stack Parameters
Stack Height: 68.0 feet
Stack Diameter: 2.17 feet
Stack Temperature: Ambient
Exhaust Flow: 6,316.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **S2.017** shall not exceed **1.00** ton of **explosives** per hour averaged over a calendar day, nor more than **6,024.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **S2.017** may operate a total of **24** hours per day.
 - (2) **S2.017** may operate a total of **6,024** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.017** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.56** pounds per hour, nor more than **1.70** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.56** pounds per hour, nor more than **1.70** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.56** pounds per hour, nor more than **1.70** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **S2.017** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.017** shall not exceed **4.10** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

 - a. Monitor and record the throughput for **S2.017** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **S2.017** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

G. Emission Unit S2.017 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- f. Conduct and record an observation of visible emissions (excluding water vapor) on the **Wet Scrubber System (HC-15)** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- g. Inspect the **Wet Scrubber System (HC-15)** installed on **S2.017** on a **monthly** basis to confirm that the wet scrubber is functioning properly. If the wet scrubber is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the wet scrubber is functioning properly.
- h. Following the determination of the pressure drop value or pressure drop range as required in **5.g.** of this section, monitor and record the pressure drop across **Wet Scrubber System (HC-15)** on a daily basis during operation. A violation of the emission limitations specified in **3.a. through 3.e.** of this section will have been considered to have occurred if the pressure drop across **Wet Scrubber System (HC-15)** is not within the range or is outside the maximum or minimum value established in **5.g.** of this section.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine particulate matter emissions. All particulate captured in the Method 5 and Method 202 test shall be considered PM_{2.5} for determination of compliance. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- e. During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that correspond to compliance with the emission limitations established in **3.a. through 3.e.** of this section, based on a valid performance test. The pressure drop value or pressure drop range will be re-established with the required corresponding performance test.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****H. Emission Unit S2.018**

System 12 – Low Pressure Hot Water Wash-Out (East Side)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.018	Wash-Out Turntable, Dewatering Screen, Drying Conveyor, Building 117-6	4,272,920	355,860

1. Air Pollution Control Equipment (NAC 445B.3405)a. Emissions from **S2.018** shall be controlled by a **Wet Scrubber System (HC-12)**.b. Descriptive Stack Parameters

Stack Height: 68.0 feet

Stack Diameter: 1.25 feet

Stack Temperature: 180.0 °F

Exhaust Flow: 2,250.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)a. The maximum allowable throughput rate for **S2.018** shall not exceed **1.00** ton of **explosives** per hour averaged over a calendar day, nor more than **6,024.0** tons per 12-month rolling period.b. Hours(1) **S2.018** may operate a total of **24** hours per day.(2) **S2.018** may operate a total of **6,024** hours per year.3. Emission Limits (NAC 445B.305, NAC 445B.3405)The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.018** the following pollutants in excess of the following specified limits:a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.60** pounds per hour, nor more than **1.81** tons per 12-month rolling period.b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.60** pounds per hour, nor more than **1.81** tons per 12-month rolling period.c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.60** pounds per hour, nor more than **1.81** tons per 12-month rolling period.d. NAC 445B.22017 – The opacity from **S2.018** shall not equal or exceed **20** percent.e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.018** shall not exceed **4.10** pounds per hour.4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

a. Monitor and record the throughput for **S2.018** for each calendar day.

b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.

c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.

d. Monitor and record the hours of operation for **S2.018** for each calendar day.

e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

H. Emission Unit S2.018 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- f. Conduct and record an observation of visible emissions (excluding water vapor) on the **Wet Scrubber System (HC-12)** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- g. Inspect the **Wet Scrubber System (HC-12)** installed on **S2.018** on a **monthly** basis to confirm that the wet scrubber is functioning properly. If the wet scrubber is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the wet scrubber is functioning properly.
- h. Following the determination of the pressure drop value or pressure drop range as required in **5.g.** of this section, monitor and record the pressure drop across **Wet Scrubber System (HC-12)** on a daily basis during operation. A violation of the emission limitations specified in **3.a. through 3.e.** of this section will have been considered to have occurred if the pressure drop across **Wet Scrubber System (HC-12)** is not within the range or is outside the maximum or minimum value established in **5.g.** of this section.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine particulate matter emissions. All particulate captured in the Method 5 and Method 202 test shall be considered PM_{2.5} for determination of compliance. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- e. During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that correspond to compliance with the emission limitations established in **3.a. through 3.e.** of this section, based on a valid performance test. The pressure drop value or pressure drop range will be re-established with the required corresponding performance test.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****I. Emission Units PF1.001 and PF1.002**

System 13A – Screen Plant - Loading		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.001	Material transfer to Feed Hopper	4,269,350	355,323
PF1.002	Feed Hopper transfer to Conveyor C-1	4,269,348	355,322

1. Air Pollution Control Equipment (NAC 445B.3405)
PF1.001 through PF1.002, each, have no add-on controls.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.001 and PF1.002**, each, shall not exceed **60.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **64,800** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.001 and PF1.002**, each, may operate a total of **8** hours per day.
 - (2) **PF1.001 and PF1.002**, each, may operate a total of **1,080.0** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.001 and PF1.002**, each, the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.18** pounds per hour, nor more than **0.10** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.066** pounds per hour, nor more than **0.036** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.010** pounds per hour, nor more than **0.0055** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.001 and PF1.002**, each, shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.001 and PF1.002**, each, shall not exceed **46.3** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.001 and PF1.002**, each, for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **PF1.001 and PF1.002**, each, for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
 - f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

I. Emission Units PF1.001 and PF1.002 (continued)

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)

- a. On and after the sixtieth day after achieving the maximum production rate at which **PF1.001 and PF1.002**, each, will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.001 and PF1.002**, each, will not exceed **10 percent** opacity. (40 CFR Part 60.672(b))
 - (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction. (40 CFR 60.11(c))
- b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
- c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.001 and PF1.002**, each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****J. Emission Unit PF1.004**

System 13B – Screen Plant - Screening		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.004	Fab Tec 3-Deck Screen & associated transfers (In: Conveyor 1, Out: Screen Discharge 1-3)	4,269,330	355,315

1. Air Pollution Control Equipment (NAC 445B.3405)
PF1.004 has no add-on controls.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.004** shall not exceed **60.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **64,800.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.004** may operate a total of **8** hours per day.
 - (2) **PF1.004** may operate a total of **1,080** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.004** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.50** pounds per hour, nor more than **0.81** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.52** pounds per hour, nor more than **0.28** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.079** pounds per hour, nor more than **0.0043** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.004** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.004** shall not exceed **46.3** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.004** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **PF1.004** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
 - f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

J. Emission Unit PF1.004 (continued)

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)

- a. On and after the sixtieth day after achieving the maximum production rate at which **PF1.004** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.004** will not exceed **10 percent** opacity. (40 CFR Part 60.672(b))
 - (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction. (40 CFR 60.11(c))
- b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
- c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.004** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****K. Emission Unit PF1.008**

System 14A – Screen/Crush Plant - Loading		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.008	Truck/End Dump transfer to Grizzly/Apron Feeder	4,273,200	351,490

1. Air Pollution Control Equipment (NAC 445B.3405)
PF1.008 has no add-on controls.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.008** shall not exceed **93.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **120,528.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.008** may operate a total of **8** hours per day.
 - (2) **PF1.008** may operate a total of **1,296** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.008** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.28** pounds per hour, nor more than **0.18** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.10** pounds per hour, nor more than **0.066** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.015** pounds per hour, nor more than **0.010** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.008** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.008** shall not exceed **50.6** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.008** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **PF1.008** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****L. Emission Units PF1.009 and PF1.015**

System 14B – Screen/Crush Plant - Transfers		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.009	Apron Feeder transfer to Conveyor C-1	4,273,195	351,495
PF1.015	Conveyor C-2 transfer to Conveyor C-1	4,273,185	351,525

1. Air Pollution Control Equipment (NAC 445B.3405)
Emissions from **PF1.009 and PF1.015**, each, shall be controlled by **Water Sprays**.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.009 and PF1.015**, each, shall not exceed **93.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **120,528.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.009 and PF1.015**, each, may operate a total of **8** hours per day.
 - (2) **PF1.009 and PF1.015**, each, may operate a total of **1,296** hours per year.
 - (3) **PF1.009 and PF1.015**, each, may operate from **7:00 AM to 3:00 PM only**.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.009 and PF1.015**, each, the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.084** pounds per hour, nor more than **0.054** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.031** pounds per hour, nor more than **0.020** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0046** pounds per hour, nor more than **0.0030** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.009 and PF1.015**, each, shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.009 and PF1.015**, each, shall not exceed **50.6** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.009 and PF1.015**, each, for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the times at which operations start and stop as well as the total daily hours of operation for **PF1.009 and PF1.015**, each, for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
 - f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

L. Emission Units PF1.009 and PF1.015 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.009 and PF1.015** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- h. The Permittee of any affected facility that uses wet suppression to control emissions from the affected facility must perform **monthly** periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken.

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)

- a. On and after the sixtieth day after achieving the maximum production rate at which **PF1.009 and PF1.015**, each, will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.009 and PF1.015**, each, will not exceed **10 percent** opacity. (40 CFR Part 60.672(b))
 - (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction. (40 CFR 60.11(c))
- b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
- c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.009 and PF1.015**, each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****M. Emission Unit PF1.011**

System 14C – Screen/Crush Plant - Screening		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.011	El Jay Triple Deck Screen and associated transfers (In: Conveyor C-1, Out: Cone Crusher and Screen Discharges 1-3)	4,273,188	351,505

1. Air Pollution Control Equipment (NAC 445B.3405)
Emissions from **PF1.011** shall be controlled by **Water Sprays**.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.011** shall not exceed **93.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **120,528.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.011** may operate a total of **8** hours per day.
 - (2) **PF1.011** may operate a total of **1,296** hours per year.
 - (3) **PF1.011** may operate from **7:00 AM to 3:00 PM only**.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.011** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.70** pounds per hour, nor more than **0.45** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.24** pounds per hour, nor more than **0.16** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.037** pounds per hour, nor more than **0.024** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.011** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.011** shall not exceed **50.6** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.011** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the times at which operations start and stop as well as the total daily hours of operation for **PF1.011** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
 - f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

M. Emission Unit PF1.011 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.011** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- h. The Permittee of any affected facility that uses wet suppression to control emissions from the affected facility must perform **monthly** periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken.

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)

- a. On and after the sixtieth day after achieving the maximum production rate at which **PF1.011** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.011** will not exceed **10 percent** opacity. (40 CFR Part 60.672(b))
 - (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction. (40 CFR 60.11(c))
- b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
- c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.011** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****N. Emission Unit PF1.013**

System 14D – Screen/Crush Plant - Crushing		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.013	Cedarapids Cone Crusher and associated transfers (In: El Jay Screen, Out: Conveyor C-2)	4,273,185	351,515

1. Air Pollution Control Equipment (NAC 445B.3405)
Emissions from **PF1.013** shall be controlled by **Water Sprays**.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.013** shall not exceed **93.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **120,528.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.013** may operate a total of **8** hours per day.
 - (2) **PF1.013** may operate a total of **1,296** hours per year.
 - (3) **PF1.013** may operate from **7:00 AM to 3:00 PM only**.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.013** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.15** pounds per hour, nor more than **0.10** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.067** pounds per hour, nor more than **0.043** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.010** pounds per hour, nor more than **0.0066** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.013** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.013** shall not exceed **50.6** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.013** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the times at which operations start and stop as well as the total daily hours of operation for **PF1.013** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
 - f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

N. Emission Unit PF1.013 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.013** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- h. The Permittee of any affected facility that uses wet suppression to control emissions from the affected facility must perform **monthly** periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken.

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)

- a. On and after the sixtieth day after achieving the maximum production rate at which **PF1.013** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.013** will not exceed **15 percent** opacity. (40 CFR Part 60.672(b))
 - (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction. (40 CFR 60.11(c))
- b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
- c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.013** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****O. Emission Unit PF1.017**

System 16 – Radial Stacker		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.017	Fab Tec 30' Radial Stacker	4,273,192	351,505

1. Air Pollution Control Equipment (NAC 445B.3405)
PF1.017 has no add-on controls.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.017** shall not exceed **93.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **120,528.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.017** may operate a total of **24** hours per day.
 - (2) **PF1.017** may operate a total of **1,296** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.017** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.28** pounds per hour, nor more than **0.18** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.10** pounds per hour, nor more than **0.066** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.015** pounds per hour, nor more than **0.010** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.017** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.017** shall not exceed **50.6** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.017** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **PF1.017** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****P. Emission Unit PF1.018**

System 17 – Radial Stacker		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.018	Fab Tec 30' Radial Stacker	4,273,184	351,500

1. Air Pollution Control Equipment (NAC 445B.3405)
PF1.018 has no add-on controls.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.018** shall not exceed **93.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **120,528.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.018** may operate a total of **24** hours per day.
 - (2) **PF1.018** may operate a total of **1,296** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.018** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.28** pounds per hour, nor more than **0.18** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.10** pounds per hour, nor more than **0.066** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.015** pounds per hour, nor more than **0.010** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.018** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.018** shall not exceed **50.6** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.018** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **PF1.018** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****Q. Emission Unit PF1.019**

System 18 – Radial Stacker		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.019	Fab Tec 30' Radial Stacker	4,273,180	351,520

1. Air Pollution Control Equipment (NAC 445B.3405)
PF1.019 has no add-on controls.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.019** shall not exceed **93.0** tons of **aggregate** per hour averaged over a calendar day, nor more than **120,528.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.019** may operate a total of **24** hours per day.
 - (2) **PF1.019** may operate a total of **1,296** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.019** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.28** pounds per hour, nor more than **0.18** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.10** pounds per hour, nor more than **0.066** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.015** pounds per hour, nor more than **0.010** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.019** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.019** shall not exceed **50.6** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.019** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **PF1.019** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****R. Emission Unit S2.037**

System 20 – Surface Coating Booth		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.037	Surface Coating Booth, Building 103-16	4,269,740	358,750

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.037** shall be controlled by **Dry Filters**.
 - b. Descriptive Stack Parameters
Stack Height: 21.0 feet
Stack Diameter: 1.50 feet
Stack Temperature: 69.5 °F
Exhaust Flow: 2,502.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **S2.037** shall not exceed **1,680.0** gallons of **coatings** per 12-month rolling period.
 - b. Hours
 - (1) **S2.037** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.037** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.011** pounds per hour, nor more than **0.047** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0054** pounds per hour, nor more than **0.024** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0054** pounds per hour, nor more than **0.024** tons per 12-month rolling period.
 - d. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **1.15** pounds per hour, nor more than **5.04** tons per 12-month rolling period.
 - e. NAC 445B.22017 – The opacity from the **S2.037** shall not equal or exceed **20** percent.
 - f. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.037** shall not exceed **1.36** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

 - a. Monitor and record the throughput for **S2.037** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **S2.037** for each calendar day.
 - e. Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any VOC containing materials utilized in **S2.037** on a daily basis when operating.
 - f. Record the total VOC emitted (based on VOC content), in pounds, from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

R. Emission Unit S2.037 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Record the total quantity of VOC emitted at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in **R.3.d.** of this section, on a 12-month rolling period.
- h. Conduct and record an observation of visible emissions (excluding water vapor) from the stack of **S2.037** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- i. Inspect the **Dry Filters** installed on **S2.037** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filters) and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****S. Emission Unit S2.038**

System 21 – Surface Coating Booth		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.038	Surface Coating Booth, Building 26	4,267,539	355,859

1. Air Pollution Control Equipment (NAC 445B.3405)a. Emissions from **S2.038** shall be controlled by **Dry Filters**.b. Descriptive Stack Parameters

Stack Height: 15.0 feet

Stack Diameter: 1.50 feet

Stack Temperature: 69.5 °F

Exhaust Flow: 2,502.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)a. The maximum allowable throughput rate for **S2.038** shall not exceed **233.0** gallons of **coatings** per 12-month rolling period.b. Hours(1) **S2.038** may operate a total of **24** hours per day.3. Emission Limits (NAC 445B.305, NAC 445B.3405)The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.038** the following pollutants in excess of the following specified limits:a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.0011** pounds per hour, nor more than **0.0049** tons per 12-month rolling period.b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.00052** pounds per hour, nor more than **0.0023** tons per 12-month rolling period.c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.00052** pounds per hour, nor more than **0.0023** tons per 12-month rolling period.d. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.16** pounds per hour, nor more than **0.70** tons per 12-month rolling period.e. NAC 445B.22017 – The opacity from the **S2.038** shall not equal or exceed **20** percent.f. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.038** shall not exceed **0.36** pounds per hour.4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

a. Monitor and record the throughput for **S2.038** for each calendar day.

b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.

c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.

d. Monitor and record the hours of operation for **S2.038** for each calendar day.e. Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any VOC containing materials utilized in **S2.038** on a daily basis when operating.

f. Record the total VOC emitted (based on VOC content), in pounds, from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

S. Emission Unit S2.038 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Record the total quantity of VOC emitted at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in **S.3.d.** of this section, on a 12-month rolling period.
- h. Conduct and record an observation of visible emissions (excluding water vapor) from the stack of **S2.038** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- i. Inspect the **Dry Filters** installed on **S2.038** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filters) and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****T. Emission Unit S2.039**

System 22 – Surface Coating Booth		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.039	Surface Coating Booth, Building 26	4,267,539	355,859

1. Air Pollution Control Equipment (NAC 445B.3405)a. Emissions from **S2.039** shall be controlled by **Dry Filters**.b. Descriptive Stack Parameters

Stack Height: 15.0 feet

Stack Diameter: 1.50 feet

Stack Temperature: 69.5 °F

Exhaust Flow: 2,502.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)a. The maximum allowable throughput rate for **S2.039** shall not exceed **233.0** gallons of **coatings** per 12-month rolling period.b. Hours(1) **S2.039** may operate a total of **24** hours per day.3. Emission Limits (NAC 445B.305, NAC 445B.3405)The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.039** the following pollutants in excess of the following specified limits:a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.0011** pounds per hour, nor more than **0.0049** tons per 12-month rolling period.b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.00052** pounds per hour, nor more than **0.0023** tons per 12-month rolling period.c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.00052** pounds per hour, nor more than **0.0023** tons per 12-month rolling period.d. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.16** pounds per hour, nor more than **0.70** tons per 12-month rolling period.e. NAC 445B.22017 – The opacity from the **S2.039** shall not equal or exceed **20** percent.f. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.039** shall not exceed **0.36** pounds per hour.4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

a. Monitor and record the throughput for **S2.039** for each calendar day.

b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.

c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.

d. Monitor and record the hours of operation for **S2.039** for each calendar day.e. Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any VOC containing materials utilized in **S2.039** on a daily basis when operating.

f. Record the total VOC emitted (based on VOC content), in pounds, from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

T. Emission Unit S2.039 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Record the total quantity of VOC emitted at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in **T.3.d.** of this section, on a 12-month rolling period.
- h. Conduct and record an observation of visible emissions (excluding water vapor) from the stack of **S2.039** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- i. Inspect the **Dry Filters** installed on **S2.039** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filters) and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****U. Emission Unit S2.040**

System 23 – Surface Coating Booth		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.040	Surface Coating Booth, Building 49-9	4,266,422	359,846

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.040** shall be controlled by **Dry Filters**.
 - b. Descriptive Stack Parameters
Stack Height: 15.0 feet
Stack Diameter: 1.50 feet
Stack Temperature: 69.5 °F
Exhaust Flow: 2,502.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **S2.040** shall not exceed **450.0** gallons of **coatings** per 12-month rolling period.
 - b. Hours
(1) **S2.040** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.040** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.0045** pounds per hour, nor more than **0.020** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0021** pounds per hour, nor more than **0.0093** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0021** pounds per hour, nor more than **0.0093** tons per 12-month rolling period.
 - d. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.31** pounds per hour, nor more than **1.35** tons per 12-month rolling period.
 - e. NAC 445B.22017 – The opacity from the **S2.040** shall not equal or exceed **20** percent.
 - f. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.040** shall not exceed **0.56** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

 - a. Monitor and record the throughput for **S2.040** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **S2.040** for each calendar day.
 - e. Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any VOC containing materials utilized in **S2.040** on a daily basis when operating.
 - f. Record the total VOC emitted (based on VOC content), in pounds, from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

U. Emission Unit S2.040 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Record the total quantity of VOC emitted at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in U.3.d. of this section, on a 12-month rolling period.
- h. Conduct and record an observation of visible emissions (excluding water vapor) from the stack of **S2.040** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- i. Inspect the **Dry Filters** installed on **S2.040** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filters) and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****V. Emission Unit S2.041**

System 24 – Surface Coating Booth		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.041	Surface Coating Booth, Building 104-3	4,265,983	360,576

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.041** shall be controlled by **Dry Filters**.
 - b. Descriptive Stack Parameters
Stack Height: 15.0 feet
Stack Diameter: 1.50 feet
Stack Temperature: 69.5 °F
Exhaust Flow: 2,502.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **S2.041** shall not exceed **500.0** gallons of **coatings** per 12-month rolling period.
 - b. Hours
(1) **S2.041** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.041** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.0039** pounds per hour, nor more than **0.017** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0019** pounds per hour, nor more than **0.0081** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0019** pounds per hour, nor more than **0.0081** tons per 12-month rolling period.
 - d. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.34** pounds per hour, nor more than **1.50** tons per 12-month rolling period.
 - e. NAC 445B.22017 – The opacity from the **S2.041** shall not equal or exceed **20** percent.
 - f. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.041** shall not exceed **0.60** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

 - a. Monitor and record the throughput for **S2.041** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **S2.041** for each calendar day.
 - e. Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any VOC containing materials utilized in **S2.041** on a daily basis when operating.
 - f. Record the total VOC emitted (based on VOC content), in pounds, from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

V. Emission Unit S2.041 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- g. Record the total quantity of VOC emitted at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in **V.3.d.** of this section, on a 12-month rolling period.
- h. Conduct and record an observation of visible emissions (excluding water vapor) from the stack of **S2.041** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- i. Inspect the **Dry Filters** installed on **S2.041** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filters) and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****W. Emission Unit S2.043**

System 26 – Plasma Ordnance Demilitarization System (PODS)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.043	PODS Waste Handling Blending, Building 117-2	4,273,205	356,147

1. Air Pollution Control Equipment (NAC 445B.3405)

- a. Emissions from **S2.043** shall be controlled by the following air pollution control equipment (emissions will exhaust through a common stack):

- (1) Secondary Combustion Chamber
- (2) Off-Gas Quencher
- (3) Packed Bed Absorber (Scrubber #1)
- (4) High Energy (Hydrostatic) Scrubber (Scrubber #2)
- (5) Demister
- (6) Superheater
- (7) Baghouse
- (8) Reheater
- (9) Selective Catalytic Reactors

b. Descriptive Stack Parameters

Stack Height: 51.8 feet

Stack Diameter: 1.00 feet

Stack Temperature: 629.0 °F

Exhaust Flow: 719.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)

- a. **S2.043** may consume only **diesel**.
- b. The maximum allowable fuel consumption rate for **S2.043** shall not exceed **21.4 gallons** per hour, averaged over a calendar day, nor more than **133,536.0 gallons** per 12-month rolling period.
- c. The maximum allowable throughput rate for **S2.043** shall not exceed **1.00 tons of ammunition** per hour, averaged over a calendar day, nor more than **6,240.0 tons** per 12-month rolling period.
- d. Hours
- (1) **S2.043** may operate a total of **24 hours** per day.
 - (2) **S2.043** may operate a total of **6,240 hours** per year.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.043** the following pollutants in excess of the following specified limits:

- a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.0046 pounds** per hour, nor more than **0.014 tons** per 12-month rolling period.
- b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0092 pounds** per hour, nor more than **0.029 tons** per 12-month rolling period.
- c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0092 pounds** per hour, nor more than **0.029 tons** per 12-month rolling period.
- d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **3.50 pounds** per hour, nor more than **10.9 tons** per 12-month rolling period.
- e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **6.00 pounds** per hour, nor more than **18.7 tons** per 12-month rolling period.
- f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.15 pounds** per hour, nor more than **0.46 tons** per 12-month rolling period.
- g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.067 pounds** per hour, nor more than **0.21 tons** per 12-month rolling period.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.043** the following pollutants in excess of the following specified limits (continued):

- h. NAC 445B.22017 – The opacity from the **S2.043** shall not equal or exceed **20** percent.
- i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.043** shall not exceed **2.10** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.043** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the throughput for **S2.043** for each calendar day.
- e. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- f. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
- g. Monitor and record the hours of operation for **S2.043** for each calendar day.
- h. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- i. The Permittee shall use the Munitions Item Disposition Action System (MIDAS) database to characterize the chemical composition of the ordnance to be treated.
- j. The Permittee shall input the ordnance National Stock Number (NSN) into the Fee Rate Control System (FRCS). The FRCS will calculate a maximum munition item feed rate in pounds per hour. The PODS control computer will assure this feed rate is not exceeded by monitoring the belt speed and the weight of each belt pocket dumped into the furnace. If the maximum pound per hour rate is exceeded, the belt will automatically shut down.
- k. The Permittee shall monitor the operating parameters specified in the Comprehensive Performance Test Plan (CPTP).
 - (1) Testing shall commence at such time as PODS and the control equipment have reached conditions specified by the Director as normal operation.
 - (2) The Data Acquisition System shall record the operating limits contained in the CPTP during each performance test run to acquire the data to establish feed rates.
- l. The Permittee shall calculate feed rates based on the following formula:

$$\text{Maximum Item Feed Rate (lbs/hr)} = \frac{\text{Pollutant Feed Rate Limit (lbs/hr)} \times \text{Weight of the Item (lb)}}{\text{Weight of Pollutant in the Item (lb)}}$$

Pollutant feed rates will be limited to those amounts that have been demonstrated to meet the emission limits in **W.3.** of this section through testing. Maximum pollutant feed rates will be established during the Comprehensive Performance Tests and documented in the test report. Weight of the pollutant in each item will be determined using the MIDAS database.

- m. The Permittee shall notify the Director of any munition items processed by PODS emitting any pollutants currently not identified in the PODS database. This database must track all criteria pollutants, hazardous air pollutants, or any organic compound listed in 40 CFR Part 261 Appendix VIII.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- n. Conduct and record an observation of visible emissions (excluding water vapor) on the exhaust of **S2.043** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.
- f. Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
- g. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- h. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- i. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- j. Method 12 in Appendix A of 40 CFR Part 60 shall be used to determine the lead concentration. Each test will be run for a minimum of one hour.
- k. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOCs by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.

$$\text{Maximum Item Feed Rate (lbs/hr)} = \frac{\text{Pollutant Feed Rate Limit (lbs/hr)} \times \text{Weight of the Item (lb)}}{\text{Weight of Pollutant in the Item (lb)}}$$



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200)

(1) Interim Emissions Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns (40 CFR 63.1203)

The Permittee shall meet the following standards until compliance with the standards under 40 CFR Part 63.1219 are met. (40 CFR 63.1203)

(a) *Emission Limits for New Sources.* The Permittee shall not discharge or cause combustion gases to be emitted into the atmosphere that contain (40 CFR 63.1203(b)):

(i) Dioxins and furans in excess of 0.20 ng TEQ/dscm, corrected to 7 percent oxygen (40 CFR 63.1203(b)(1));

(ii) Mercury in excess of 8.10 µg/dscm corrected to 7 percent oxygen (40 CFR 63.1203(b)(2));

(iii) Lead and cadmium in excess of 120 µg/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1203(b)(3));

(iv) Arsenic, beryllium, and chromium in excess of 97 µg/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1203(b)(4));

(v) Carbon monoxide in excess of 100 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. If the Permittee elects to comply with this carbon monoxide standard rather than the hydrocarbon standard under 40 CFR Part 63.1203(b)(5)(ii), the Permittee must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by 40 CFR Part 63.1206(b)(7), hydrocarbons do not exceed 10 parts per million by volume during those runs, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane; or (40 CFR 63.1203(b)(5)(i))

(vi) Hydrochloric acid and chlorine gas in excess of 21 parts per million by volume, combined emissions, expressed as hydrochloric acid equivalents, dry basis and corrected to 7 percent oxygen; and (40 CFR 63.1203(b)(6))

(vii) Particulate matter in excess of 34 mg/dscm corrected to 7 percent oxygen. (40 CFR 63.1203(b)(7))

(b) *Destruction and Removal Efficiency (DRE) Standard.* (40 CFR 63.1203(c))

(i) 99.99% DRE. Except as provided in 40 CFR Part 63.1203(c)(2), the Permittee must achieve a destruction and removal efficiency (DRE) of 99.99% for each principle organic hazardous constituent (POHC) designated under 40 CFR Part 63.1203(c)(3). The Permittee must calculate DRE for each POHC from the following equation (40 CFR 63.1203(c)(1)):

$$DRE = [1 - (W_{out}/W_{in})] \times 100\%$$

Where:

W_{in} = mass feedrate of one principal organic hazardous constituent (POHC) in waste feedstream; and

W_{out} = mass emission rate of the same POHC present in exhaust emissions prior to release to the atmosphere.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(1) Interim Emissions Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns (40 CFR 63.1203) (continued)

The Permittee shall meet the following standards until compliance with the standards under 40 CFR Part 63.1219 are met. (40 CFR 63.1203) (continued)

(b) *Destruction and Removal Efficiency (DRE) Standard.* (40 CFR 63.1203(c)) (continued)

(ii) *99.9999% DRE.* If the Permittee burns the dioxin-listed hazardous wastes F020, F021, F022, F023, F026, or F027 (see 40 CFR Part 261.31), the Permittee must achieve a destruction and removal efficiency (DRE) of 99.9999% for each principle organic hazardous constituent (POHC) that the Permittee designates under 40 CFR Part 63.1203(c)(3). The Permittee must demonstrate this DRE performance on POHCs that are more difficult to incinerate than tetra-, penta-, and hexachlorodibenzo-p-dioxins and dibenzofurans. The Permittee must use the equation in 40 CFR Part 63.1203(c)(1) to calculate DRE for each POHC. In addition, the Permittee must notify the Administrator of the intent to incinerate hazardous wastes F020, F021, F022, F023, F026, or F027. (40 CFR 63.1203(c)(2))

(iii) *Principal Organic Hazardous Constituents (POHCs).* (40 CFR 63.1203(c)(3))

(I) The Permittee must treat the Principal Organic Hazardous Constituents (POHCs) in the waste feed that you specify under 40 CFR Part 63.1203(c)(3)(ii) to the extent required by 40 CFR Parts 63.1203(c)(1) and (c)(2). (40 CFR 63.1203(c)(3)(i))

(II) The Permittee must specify one or more POHCs that are representative of the most difficult to destroy organic compounds in your hazardous waste feedstream. The Permittee must base this specification on the degree of difficulty of incineration of the organic constituents in the hazardous waste and on their concentration or mass in the hazardous waste feed, considering the results of hazardous waste analyses or other data and information. (40 CFR 63.1203(c)(3)(ii))

(c) *Significant Figures.* The emission limits provided by 40 CFR Parts 63.1203(a) and (b) are presented with two significant figures. Although the Permittee must perform intermediate calculations using at least three significant figures, the Permittee may round the resultant emission levels to two significant figures to document compliance. (40 CFR 63.1203(d))

(d) The provisions of this section no longer apply after any of the following dates, whichever occurs first (40 CFR 63.1203(e)):

(i) The date that the source begins to comply with 40 CFR Part 63.1219 by placing a Documentation of Compliance in the operating record pursuant to 40 CFR Part 63.1211(c) (40 CFR 63.1203(e)(1));

(ii) The date that the source begins to comply with 40 CFR Part 63.1219 by submitting a Notification of Compliance pursuant to 40 CFR Part 63.1210(b) (40 CFR 63.1203(e)(2)); or

(iii) The date for the source to comply with 40 CFR Part 63.1219 pursuant to 40 CFR Part 63.1206 and any extensions granted there under. (40 CFR 63.1203(e)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206)

(a) Compliance Dates. (40 CFR 63.1206(a))

(i) Compliance date for standards under 40 CFR Part 63.1203. (40 CFR 63.1206(a)(1)(i))

(I) Compliance Dates for New or Reconstructed Sources. (40 CFR 63.1206(a)(1)(i)(B))

(A) If the Permittee commenced construction or reconstruction of the hazardous waste combustor after April 19, 1996, the Permittee must comply with the emission standards under 40 CFR Part 63.1203 and the other requirements of 40 CFR Part 63 Subpart EEE by the later of September 30, 1999 or the date the source starts operations, except as provided by 40 CFR Parts 63.1206(a)(1)(i)(A)(1) through (3) and (a)(1)(i)(B)(2). The costs of retrofitting and replacement of equipment that is installed specifically to comply with 40 CFR Part 63 Subpart EEE, between April 19, 1996 and a source's compliance date, are not considered to be reconstruction costs. (40 CFR 63.1206(a)(1)(i)(B)(1))

(B) For a standard under 40 CFR Part 63.1203 that is more stringent than the standard proposed on April 19, 1996, the Permittee may achieve compliance no later than September 30, 2003 if the Permittee complies with the standard proposed on April 19, 1996 after September 30, 1999. This exception does not apply, however, to new or reconstructed area source hazardous waste combustors that become major sources after September 30, 1999. As provided by 40 CFR Part 63.6(b)(7), such sources must comply with the standards under 40 CFR Parts 63.1203, 63.1204, and 63.1205 at startup. (40 CFR 63.1206(a)(1)(i)(B)(2))

(ii) Compliance date for standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1206(a)(1)(ii))

(I) Compliance Dates for New or Reconstructed Sources. (40 CFR 63.1206(a)(1)(ii)(B))

(A) If the Permittee commenced construction or reconstruction of the hazardous waste combustor after April 20, 2004, the Permittee must comply with the new source emission standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221 and the other requirements of 40 CFR Part 63 Subpart EEE by the later of October 12, 2005 or the date the source starts operations, except as provided by 40 CFR Parts 63.1206(a)(1)(ii)(B)(2) and (a)(1)(ii)(B)(3). The costs of retrofitting and replacement of equipment that is installed specifically to comply with this subpart, between April 20, 2004, and a source's compliance date, are not considered to be reconstruction costs. (40 CFR 63.1206(a)(1)(ii)(B)(1))

(B) For a standard under 40 CFR Parts 63.1219, 63.1220, and 63.1221 that is more stringent than the standard proposed on April 20, 2004, the Permittee may achieve compliance no later than October 14, 2008, if the Permittee complies with the standard proposed on April 20, 2004, after October 12, 2005. This exception does not apply, however, to new or reconstructed area source hazardous waste combustors that become major sources after October 14, 2008. As provided by 40 CFR Part 63.6(b)(7), such sources must comply with the standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221 at startup. (40 CFR 63.1206(a)(1)(ii)(B)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (a) Compliance Dates. (40 CFR 63.1206(a)) (continued)
 - (iii) Early Compliance. If the Permittee chooses to comply with the emission standards of 40 CFR Part 63 Subpart EEE prior to the dates specified in 40 CFR Parts 63.1206(a)(1) and (a)(2), the compliance date is the earlier of the date the Permittee postmarks the Notification of Compliance under 40 CFR Part 63.1207(j)(1) or the dates specified in 40 CFR Parts 63.1206(a)(1) and (a)(2). (40 CFR 63.1206(a)(3))
 - (b) Compliance with Standards. (40 CFR 63.1206(b))
 - (i) Applicability. The emission standards and operating requirements set forth in 40 CFR Part 63 Subpart EEE apply at all times except (40 CFR 63.1206(b)(1)):
 - (I) During periods of startup, shutdown, and malfunction; and (40 CFR 63.1206(b)(1)(i))
 - (II) When hazardous waste is not in the combustion chamber (i.e., the hazardous waste feed to the combustor has been cut off for a period of time not less than the hazardous waste residence time) and the Permittee has documented in the operating record that the Permittee is complying with all otherwise applicable requirements and standards promulgated under authority of sections 112 (e.g., 40 CFR Part 63, Subparts LLL, DDDDD, and NNNNN) or 129 of the Clean Air Act in lieu of the emission standards under 40 CFR Parts 63.1203, 63.1204, 63.1205, 63.1215, 63.1216, 63.1217, 63.1218, 63.1219, 63.1220, and 63.1221; the monitoring and compliance standards of 40 CFR Part 63.1206 and 40 CFR Parts 63.1207 through 63.1209, except the modes of operation requirements of 40 CFR Part 63.1209(q); and the notification, reporting, and recordkeeping requirements of 40 CFR Parts 63.1210 through 63.1212. (40 CFR 63.1206(b)(1)(ii))
 - (ii) Methods for Determining Compliance. The Administrator will determine compliance with the emission standards of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Part 63.6(f)(2). Conducting performance testing under operating conditions representative of the extreme range of normal conditions is consistent with the requirements of 40 CFR Parts 63.6(f)(2)(iii)(B) and 63.7(e)(1) to conduct performance testing under representative operating conditions. (40 CFR 63.1206(b)(2))
 - (iii) Finding of Compliance. The Administrator will make a finding concerning compliance with the emission standards and other requirements of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Part 63.6(f)(3). (40 CFR 63.1206(b)(3))
 - (iv) Extension of Compliance with Emission Standards. The Administrator may grant an extension of compliance with the emission standards of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Parts 63.6(i) and 63.1213. (40 CFR 63.1206(b)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)

(v) Changes in Design, Operation, or Maintenance. (40 CFR 63.1206(b)(5))

(I) Changes that May Adversely Affect Compliance. If you plan to change (as defined in paragraph 40 CFR Part 63.1206(b)(5)(iii)) the design, operation, or maintenance practices of the source in a manner that may adversely affect compliance with any emission standard that is not monitored with a CEMS (40 CFR 63.1206(b)(5)(i)):

(A) Notification. The Permittee must notify the Administrator at least 60 days prior to the change, unless the Permittee documents circumstances that dictate that such prior notice is not reasonably feasible. The notification must include (40 CFR 63.1206(b)(5)(i)(A)):

I. A description of the changes and which emission standards may be affected; and (40 CFR 63.1206(b)(5)(i)(A)(1));

II. A comprehensive performance test schedule and test plan under the requirements of 40 CFR Part 63.1207(f) that will document compliance with the affected emission standard(s) (40 CFR 63.1206(b)(5)(i)(A)(2));

(B) Performance Test. The Permittee must conduct a comprehensive performance test under the requirements of 40 CFR Parts 63.1207(f)(1) and (g)(1) to document compliance with the affected emission standard(s) and establish operating parameter limits as required under 40 CFR Part 63.1209, and submit to the Administrator a Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d); and (40 CFR 63.1206(b)(5)(i)(B))

(C) Restriction on Waste Burning. (40 CFR 63.1206(b)(5)(i)(C))

I. Except as provided by 40 CFR Part 63.1206(b)(5)(i)(C)(2), after the change and prior to submitting the notification of compliance, the Permittee must not burn hazardous waste for more than a total of 720 hours (renewable at the discretion of the Administrator) and only for the purposes of pretesting or comprehensive performance testing. Pretesting is defined at 40 CFR Parts 63.1207(h)(2)(i) and (ii). (40 CFR 63.1206(b)(5)(i)(C)(1))

II. The Permittee may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. The Permittee must specify operating requirements, including limits on operating parameters, that the Permittee determines will ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE based on available information. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements. (40 CFR 63.1206(b)(5)(i)(C)(2))

(II) Changes that Will Not Affect Compliance. If the Permittee determines that a change will not adversely affect compliance with the emission standards or operating requirements, the Permittee must document the change in the operating record upon making such change. The Permittee must revise as necessary the performance test plan, Documentation of Compliance, Notification of Compliance, and start-up, shutdown, and malfunction plan to reflect these changes. (40 CFR 63.1206(b)(5)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (v) Changes in Design, Operation, or Maintenance. (40 CFR 63.1206(b)(5)) (continued)
 - (III) Definition of “Change.” For purposes of 40 CFR Part 63.1206(b)(5), “change” means any change in design, operation, or maintenance practices that were documented in the comprehensive performance test plan, Notification of Compliance, or startup, shutdown, and malfunction plan. (40 CFR 63.1206(b)(5)(iii))
 - (vi) Compliance with the Carbon Monoxide and Hydrocarbon Emission Standards. This applies to sources that elect to comply with the carbon monoxide and hydrocarbon emissions standards of 40 CFR Part 63 Subpart EEE by documenting continuous compliance with the carbon monoxide standard using a continuous emissions monitoring system and documenting compliance with the hydrocarbon standard during the destruction and removal efficiency (DRE) performance test or its equivalent. (40 CFR 63.1206(b)(6))
 - (I) If a DRE test performed pursuant to 40 CFR Part 63.1207(c)(2) is acceptable as documentation of compliance with the DRE standard, The Permittee may use the highest hourly rolling average hydrocarbon level achieved during the DRE test runs to document compliance with the hydrocarbon standard. An acceptable DRE test is any test for which the data and results are determined to meet quality assurance objectives (on a site-specific basis) such that the results adequately demonstrate compliance with the DRE standard. (40 CFR 63.1206(b)(6)(i))
 - (II) If during this acceptable DRE test the Permittee did not obtain hydrocarbon emissions data sufficient to document compliance with the hydrocarbon standard, the Permittee must either (40 CFR 63.1206(b)(6)(ii)):
 - (A) Perform, as part of the performance test, an “equivalent DRE test” to document compliance with the hydrocarbon standard. An equivalent DRE test is comprised of a minimum of three runs each with a minimum duration of one hour during which the Permittee operate the combustor as close as reasonably possible to the operating parameter limits that the Permittee established based on the initial DRE test. The Permittee must use the highest hourly rolling average hydrocarbon emission level achieved during the equivalent DRE test to document compliance with the hydrocarbon standard; or (40 CFR 63.1206(b)(6)(ii)(A))
 - (B) Perform a DRE test as part of the performance test. (40 CFR 63.1206(b)(6)(ii)(B))
 - (vii) Compliance with the DRE standard. (40 CFR 63.1206(b)(7))
 - (I) Except as provided in 40 CFR Parts 63.1206(b)(7)(ii) and (b)(7)(iii) (40 CFR 63.1206(b)(7)(i)):
 - (A) The Permittee must document compliance with the Destruction and Removal Efficiency (DRE) standard under 40 CFR Part 63 Subpart EEE only once provided that the Permittee does not modify the source after the DRE test in a manner that could affect the ability of the source to achieve the DRE standard. (40 CFR 63.1206(b)(7)(i)(A))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (vii) Compliance with the DRE standard. (40 CFR 63.1206(b)(7)) (continued)
 - (I) Except as provided in 40 CFR Parts 63.1206(b)(7)(ii) and (b)(7)(iii) (40 CFR 63.1206(b)(7)(i)) (continued):
 - (B) The Permittee may use any DRE test data that documents that the Permittee's source achieves the required level of DRE provided (40 CFR 63.1206(b)(7)(i)(B)):
 - I. The Permittee has not modified the design or operation of the Permittee's source in a manner that could affect the ability of the Permittee's source to achieve the DRE standard since the DRE test was performed; and, (40 CFR 63.1206(b)(7)(i)(B)(1))
 - II. The DRE test data meet quality assurance objectives determined on a site-specific basis. (40 CFR 63.1206(b)(7)(i)(B)(2))
 - (II) Sources that feed hazardous waste at locations other than the normal flame zone. (40 CFR 63.1206(b)(7)(ii))
 - (A) Except as provided by 40 CFR Part 63.1206(b)(7)(ii)(B), if hazardous waste is fed at a location in the combustion system other than the normal flame zone, then the Permittee must demonstrate compliance with the DRE standard during each comprehensive performance test (40 CFR 63.1206(b)(7)(ii)(A));
 - (B) If at any time the Permittee changes the design, operation, and maintenance features in a manner that could reasonably be expected to affect the ability to meet the DRE standard, then the Permittee must comply with the requirements of 40 CFR Part 63.1206(b)(7)(ii)(A). (40 CFR 63.1206(b)(7)(ii)(B)(2))
 - (III) For sources that do not use DRE previous testing to document conformance with the DRE standard pursuant to 40 CFR Part 63.1207(c)(2), the Permittee must perform DRE testing during the initial comprehensive performance test. (40 CFR 63.1206(b)(7)(iii))
 - (viii) Applicability of particulate matter and opacity standards during particulate matter CEMS correlation tests. (40 CFR 63.1206(b)(8))
 - (I) Any particulate matter and opacity standards of 40 CFR Parts 60, 61, 63, 264, 265, and 266 (i.e., any Title 40 particulate or opacity standards) applicable to a hazardous waste combustor do not apply while the Permittee conducts particulate matter continuous emissions monitoring system (CEMS) correlation tests (i.e., correlation with manual stack methods) under the conditions of 40 CFR Parts 63.1206(b)(8)(iii) through (vii). (40 CFR 63.1206(b)(8)(i))
 - (II) Any permit or other emissions or operating parameter limits or conditions, including any limitation on workplace practices, that are applicable to hazardous waste combustors to ensure compliance with any particulate matter and opacity standards of 40 CFR Parts 60, 61, 63, 264, 265, and 266 (i.e., any Title 40 particulate or opacity standards) do not apply while the Permittee conducts particulate matter CEMS correlation tests under the conditions of 40 CFR Parts 63.1206(b)(8)(iii) through (vii). (40 CFR 63.1206(b)(8)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (viii) *Applicability of particulate matter and opacity standards during particulate matter CEMS correlation tests.* (40 CFR 63.1206(b)(8)) (continued)
 - (III) For the provisions of this section to apply, the Permittee must (40 CFR 63.1206(b)(8)(iii)):
 - (A) Develop a particulate matter CEMS correlation test plan that includes the following information. This test plan may be included as part of the comprehensive performance test plan required under 40 CFR Parts 63.1207(e) and (f) (40 CFR 63.1206(b)(8)(iii)(A)):
 - I. Number of test conditions and number of runs for each test condition (40 CFR 63.1206(b)(8)(iii)(A)(1));
 - II. Target particulate matter emission level for each test condition (40 CFR 63.1206(b)(8)(iii)(A)(2));
 - III. How the Permittee plans to modify operations to attain the desired particulate matter emission levels; and (40 CFR 63.1206(b)(8)(iii)(A)(3))
 - IV. Anticipated normal particulate matter emission levels; and (40 CFR 63.1206(b)(8)(iii)(A)(4))
 - (B) Submit the test plan to the Administrator for approval at least 90 calendar days before the correlation test is scheduled to be conducted. (40 CFR 63.1206(b)(8)(iii)(B))
 - (IV) The Administrator will review and approve/disapprove the correlation test plan under the procedures for review and approval of the site-specific test plan provided by 40 CFR Parts 63.7(c)(3)(i) and (iii). If the Administrator fails to approve or disapprove the correlation test plan within the time period specified by 40 CFR Part 63.7(c)(3)(i), the plan is considered approved, unless the Administrator has requested additional information. (40 CFR 63.1206(b)(8)(iv))
 - (V) The particulate matter and opacity standards and associated operating limits and conditions will not be waived for more than 96 hours, in the aggregate, for a correlation test, including all runs of all test conditions, unless more time is approved by the Administrator. (40 CFR 63.1206(b)(8)(v))
 - (VI) The stack sampling team must be on-site and prepared to perform correlation testing no later than 24 hours after the Permittee modifies operations to attain the desired particulate matter emissions concentrations, unless you document in the correlation test plan that a longer period of conditioning is appropriate. (40 CFR 63.1206(b)(8)(vi))
 - (VII) The Permittee must return to operating conditions indicative of compliance with the applicable particulate matter and opacity standards as soon as possible after correlation testing is completed. (40 CFR 63.1206(b)(8)(vii))
 - (ix) *Calculation of Hazardous Waste Residence Time.* The Permittee must calculate the hazardous waste residence time and include the calculation in the performance test plan under 40 CFR Part 63.1207(f) and the operating record. The Permittee must also provide the hazardous waste residence time in the Documentation of Compliance under 40 CFR Part 63.1211(c) and the Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d). (40 CFR 63.1206(b)(11))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (x) *Documenting compliance with the standards based on performance testing.* (40 CFR 63.1206(b)(12))
 - (I) The Permittee must conduct a minimum of three runs of a performance test required under 40 CFR Part 63.1207 to document compliance with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(b)(12)(i))
 - (II) The Permittee must document compliance with the emission standards based on the arithmetic average of the emission results of each run, except that the Permittee must document compliance with the destruction and removal efficiency standard for each run of the comprehensive performance test individually. (40 CFR 63.1206(b)(12)(ii))
 - (xi) *Alternative to the Particulate Matter Standard for Incinerators.* (40 CFR 63.1206(b)(14))
 - (I) *General.* In lieu of complying with the particulate matter standards under 40 CFR Part 63.1203, the Permittee may elect to comply with the following alternative metal emission control requirements (40 CFR 63.1206(b)(14)(i)):
 - (II) *Alternative Metal Emission Control Requirements for New Incinerators* (40 CFR 63.1206(b)(14)(iii))
 - (A) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain cadmium, lead, and selenium in excess of 24 µgm/dscm, combined emissions, corrected to 7 percent oxygen; and, (40 CFR 63.1206(b)(14)(iii)(A))
 - (B) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain antimony, arsenic, beryllium, chromium, cobalt, manganese, and nickel in excess of 97 µgm/dscm, combined emissions, corrected to 7 percent oxygen. (40 CFR 63.1206(b)(14)(iii)(B))
 - (III) *Operating Limits.* Semivolatile and low volatile metal operating parameter limits must be established to ensure compliance with the alternative emission limitations described in 40 CFR Parts 63.1206(b)(14)(ii) and (iii) pursuant to 40 CFR Part 63.1209(n), except that semivolatile metal feedrate limits apply to lead, cadmium, and selenium, combined, and low volatile metal feedrate limits apply to arsenic, beryllium, chromium, antimony, cobalt, manganese, and nickel, combined. (40 CFR 63.1206(b)(14)(iv))
 - (b) Operating Requirements. (40 CFR 63.1206(c))
 - (i) General. (40 CFR 63.1206(c)(1))
 - (I) The Permittee must operate only under the operating requirements specified in the Documentation of Compliance under 40 CFR Part 63.1211(c) or the Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d), except (40 CFR 63.1206(c)(1)(i)):
 - (A) During performance tests under approved test plans according to 40 CFR Parts 63.1207(e), (f), and (g), and (40 CFR 63.1206(c)(1)(i)(A))
 - (B) Under the conditions of 40 CFR Parts 63.1206(b)(1)(i) or (ii) (40 CFR 63.1206(c)(1)(i)(B));
 - (II) The Documentation of Compliance and the Notification of Compliance must contain operating requirements including, but not limited to, the operating requirements in this section and 40 CFR Part 63.1209. (40 CFR 63.1206(c)(1)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (i) General. (40 CFR 63.1206(c)(1)) (continued)
 - (III) Failure to comply with the operating requirements is failure to ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE (40 CFR 63.1206(c)(1)(iii));
 - (IV) Operating requirements in the Notification of Compliance are applicable requirements for purposes of parts 70 and 71 of this chapter (40 CFR 63.1206(c)(1)(iv));
 - (V) The operating requirements specified in the Notification of Compliance will be incorporated in the Title V permit. (40 CFR 63.1206(c)(1)(v))
 - (ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2))
 - (I) The Permittee is subject to the startup, shutdown, and malfunction plan requirements of 40 CFR Part 63.6(e)(3). (40 CFR 63.1206(c)(2)(i))
 - (II) If the Permittee elects to comply with 40 CFR Parts 270.235(a)(1)(iii), 270.235(a)(2)(iii), or 270.235(b)(1)(ii) to address RCRA concerns that you minimize emissions of toxic compounds from startup, shutdown, and malfunction events (including releases from emergency safety vents) (40 CFR 63.1206(c)(2)(ii)):
 - (A) The startup, shutdown, and malfunction plan must include a description of potential causes of malfunctions, including releases from emergency safety vents, that may result in significant releases of hazardous air pollutants, and actions the source is taking to minimize the frequency and severity of those malfunctions. (40 CFR 63.1206(c)(2)(ii)(A))
 - (B) The Permittee must submit the startup, shutdown, and malfunction plan to the Administrator for review and approval. (40 CFR 63.1206(c)(2)(ii)(B))
 - I. Approval Procedure. The Administrator will notify the Permittee of approval or intention to deny approval of the startup, shutdown, and malfunction plan within 90 calendar days after receipt of the original request and within 60 calendar days after receipt of any supplemental information that the Permittee submits. Before disapproving the plan, the Administrator will notify the Permittee of the Administrator's intention to disapprove the plan together with (40 CFR 63.1206(c)(2)(ii)(B)(1)):
 - A. Notice of the information and findings on which intended disapproval is based; and (40 CFR 63.1206(c)(2)(ii)(B)(1)(i))
 - B. Notice of opportunity for the Permittee to present additional information to the Administrator before final action on disapproval of the plan. At the time the Administrator notifies the Permittee of intention to disapprove the plan, the Administrator will specify how much time the Permittee will have after being notified on the intended disapproval to submit additional information. (40 CFR 63.1206(c)(2)(ii)(B)(1)(ii))
 - II. Responsibility of the Permittee. The Permittee is responsible for ensuring that the submittal of any supplementary and additional information supporting the Permittee's plan in a timely manner to enable the Administrator to consider whether to approve the plan. Neither the Permittee's submittal of the plan, nor the Administrator's failure to approve or disapprove the plan, relieves the Permittee of the responsibility to comply with the provisions of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(2)(ii)(B)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)) (continued)
 - (II) If the Permittee elects to comply with 40 CFR Parts 270.235(a)(1)(iii), 270.235(a)(2)(iii), or 270.235(b)(1)(ii) to address RCRA concerns that you minimize emissions of toxic compounds from startup, shutdown, and malfunction events (including releases from emergency safety vents) (40 CFR 63.1206(c)(2)(ii)) (continued):
 - (C) Changes to the Plan that may Significantly Increase Emissions. (40 CFR 63.1206(c)(2)(ii)(C))
 - I. The Permittee must request approval in writing from the Administrator within 5 days after making a change to the startup, shutdown, and malfunction plan that may significantly increase emissions of hazardous air pollutants. (40 CFR 63.1206(c)(2)(ii)(C)(1))
 - II. To request approval of such changes to the startup, shutdown, and malfunction plan, the Permittee must follow the procedures provided by 40 CFR Part 63.1206(c)(2)(ii)(B) for initial approval of the plan. (40 CFR 63.1206(c)(2)(ii)(C)(2))
 - (III) The Permittee must identify in the plan a projected oxygen correction factor based on normal operations to use during periods of startup and shutdown. (40 CFR 63.1206(c)(2)(iii))
 - (IV) The Permittee must record the plan in the operating record. (40 CFR 63.1206(c)(2)(iv))
 - (V) Operating Under the Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)(v))
 - (A) Compliance with AWWCO Requirements During Malfunctions. (40 CFR 63.1206(c)(2)(v)(A))
 - I. During malfunctions, the automatic waste feed cutoff requirements of 40 CFR Part 12.0663.1206(c)(3) continue to apply, except for 40 CFR Parts 63.1206(c)(3)(v) and (c)(3)(vi). If the Permittee exceeds a 40 CFR Part 63 Subpart EEE emission standard monitored by a CEMS or COMs or operating limit specified under 40 CFR Part 63.1209, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed, except as provided by 40 CFR Part 63.1206(c)(3)(viii). If the malfunction itself prevents immediate and automatic cutoff of the hazardous waste feed, however, the Permittee must cease feeding hazardous waste as quickly as possible. (40 CFR 63.1206(c)(2)(v)(A)(1))
 - II. Although the automatic waste feed cutoff requirements continue to apply during a malfunction, an exceedance of an emission standard monitored by a CEMS or COMS or operating limit specified under 40 CFR Part 63.1209 is not a violation of 40 CFR Part 63 Subpart EEE if the Permittee takes the corrective measures prescribed in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(A)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)) (continued)

(V) Operating Under the Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)(v)) (continued)

(A) Compliance with AWWCO Requirements During Malfunctions. (40 CFR 63.1206(c)(2)(v)(A))

III. Excessive Exceedances During Malfunctions. For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the Permittee must (40 CFR 63.1206(c)(2)(v)(A)(3)):

A. Within 45 days of the 10th exceedance, complete an investigation of the cause of each exceedance and evaluation of approaches to minimize the frequency, duration, and severity of each exceedance, and revise the startup, shutdown, and malfunction plan as warranted by the evaluation to minimize the frequency, duration, and severity of each exceedance; and (40 CFR 63.1206(c)(2)(v)(A)(3)(i))

B. Record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the startup, shutdown, and malfunction plan, in the excess emissions report required under 40 CFR Part 63.10(e)(3). (40 CFR 63.1206(c)(2)(v)(A)(3)(ii))

(B) Compliance with AWWCO Requirements When Burning Hazardous Waste During Startup and Shutdown. (40 CFR 63.1206(c)(2)(v)(B))

I. If the Permittee feeds hazardous waste during startup or shutdown, the Permittee must include waste feed restrictions (e.g., type and quantity), and other appropriate operating conditions and limits in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(B)(1))

II. The Permittee must interlock the operating limits you establish under 40 CFR Part 63.1206(c)(2)(v)(B)(1) with the automatic waste feed cutoff system required under 40 CFR Part 63.1206(c)(3), except for 40 CFR Parts 63.1206(c)(3)(v) and (c)(3)(vi). (40 CFR 63.1206(c)(2)(v)(B)(2))

III. When feeding hazardous waste during startup or shutdown, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed if you exceed the operating limits you establish under 40 CFR Part 63.1206(c)(2)(v)(B)(1), except as provided by 40 CFR Part 63.1206(c)(3)(viii). (40 CFR 63.1206(c)(2)(v)(B)(3))

IV. Although the automatic waste feed cutoff requirements of 40 CFR Part 63.1206(c)(2)(v)(B)(4) apply during startup and shutdown, an exceedance of an emission standard or operating limit is not a violation of 40 CFR Part 63 Subpart EEE if the Permittee complies with the operating procedures prescribed in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(B)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (iii) Automatic Waste Feed Cutoff (AWFCO) (40 CFR 63.1206(c)(3))
 - (I) General. Upon the compliance date, the Permittee must operate the hazardous waste combustor with a functioning system that immediately and automatically cuts off the hazardous waste feed, except as provided by 40 CFR Part 63.1206(c)(3)(viii) (40 CFR 63.1206(c)(3)(i)):
 - (A) When any of the following are exceeded: Operating parameter limits specified under 40 CFR Part 63.1209; an emission standard monitored by a CEMS; and the allowable combustion chamber pressure (40 CFR 63.1206(c)(3)(i)(A));
 - (B) When the span value of any CMS detector, except a CEMS, is met or exceeded (40 CFR 63.1206(c)(3)(i)(B));
 - (C) Upon malfunction of a CMS monitoring an operating parameter limit specified under 40 CFR Part 63.1209 or an emission level; or (40 CFR 63.1206(c)(3)(i)(C));
 - (D) When any component of the automatic waste feed cutoff system fails. (40 CFR 63.1206(c)(3)(i)(D))
 - (II) Ducting of Combustion Gases. During an AWFCO, the Permittee must continue to duct combustion gasses to the air pollution control system while hazardous waste remains in the combustion chamber (i.e., if the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated). (40 CFR 63.1206(c)(3)(ii))
 - (III) Restarting Waste Feed. The Permittee must continue to monitor during the cutoff the operating parameters for which limits are established under 40 CFR Part 63.1209 and the emissions required under that section to be monitored by a CEMS, and you must not restart the hazardous waste feed until the operating parameters and emission levels are within the specified limits. (40 CFR 63.1206(c)(3)(iii))
 - (IV) Failure of the AWFCO System. If the AWFCO system fails to automatically and immediately cutoff the flow of hazardous waste upon exceedance of a parameter required to be interlocked with the AWFCO system under 40 CFR Part 63.1206(c)(3)(i), the Permittee has failed to comply with the AWFCO requirements of 40 CFR Part 63.1209(c)(3). If an equipment or other failure prevents immediate and automatic cutoff of the hazardous waste feed, however, the Permittee must cease feeding hazardous waste as quickly as possible. (40 CFR 63.1206(c)(3)(iv))
 - (V) Corrective Measures. If, after any AWFCO, there is an exceedance of an emission standard or operating requirement, irrespective of whether the exceedance occurred while hazardous waste remained in the combustion chamber (i.e., whether the hazardous waste residence time has transpired since the hazardous waste feed cutoff system was activated), the Permittee must investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the operating record. (40 CFR 63.1206(c)(3)(v))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(iii) Automatic Waste Feed Cutoff (AWFCO) (40 CFR 63.1206(c)(3))

(VI) Excessive Exceedance Reporting. (40 CFR 63.1206(c)(3)(vi))

(A) For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, you must submit to the Administrator a written report within 5 calendar days of the 10th exceedance documenting the exceedances and results of the investigation and corrective measures taken. (40 CFR 63.1206(c)(3)(vi)(A))

(B) On a case-by-case basis, the Administrator may require excessive exceedance reporting when fewer than 10 exceedances occur during a 60-day block period. (40 CFR 63.1206(c)(3)(vi)(B))

(VII) Testing. The AWFCO system and associated alarms must be tested at least weekly to verify operability, unless the Permittee documents in the operating record that weekly inspections will unduly restrict or upset operations and that less frequent inspection will be adequate. At a minimum, the Permittee must conduct operability testing at least monthly. The Permittee must document and record in the operating record AWFCO operability test procedures and results. (40 CFR 63.1206(c)(3)(vii))

(VIII) Ramping Down Waste Feed. (40 CFR 63.1206(c)(3)(viii))

(A) The Permittee may ramp down the waste feedrate of pumpable hazardous waste over a period not to exceed one minute, except as provided by 40 CFR Part 63.1206(c)(3)(viii)(B). If the Permittee elects to ramp down the waste feed, the Permittee must document ramp down procedures in the operating and maintenance plan. The procedures must specify that the ramp down begins immediately upon initiation of automatic waste feed cutoff and the procedures must prescribe a bona fide ramping down. If an emission standard or operating limit is exceeded during the ramp down, the Permittee has failed to comply with the emission standards or operating requirements of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(3)(viii)(A))

(B) If the automatic waste feed cutoff is triggered by an exceedance of any of the following operating limits, the Permittee may not ramp down the waste feed cutoff: Minimum combustion chamber temperature, maximum hazardous waste feedrate, or any hazardous waste firing system operating limits that may be established for the combustor. (40 CFR 63.1206(c)(3)(viii)(B))

(iv) ESV Openings (40 CFR 63.1206(c)(4))

(I) Failure to meet standards. If an emergency safety vent (ESV) opens when hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not expired) during an event other than a malfunction as defined in the startup, shutdown, and malfunction plan such that combustion gases are not treated as during the most recent comprehensive performance test (e.g., if the combustion gas by-passes any emission control device that was operating during the performance test), the Permittee must document in the operating record whether the Permittee remains in compliance with the emission standards of 40 CFR Part 63 Subpart EEE considering emissions during the ESV opening event. (40 CFR 63.1206(c)(4)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (iv) ESV Openings (40 CFR 63.1206(c)(4)) (continued)
 - (II) ESV Operating Plan. (40 CFR 63.1206(c)(4)(ii))
 - (A) The Permittee must develop an ESV operating plan, comply with the operating plan, and keep the plan in the operating record. (40 CFR 63.1206(c)(4)(ii)(A))
 - (B) The ESV operating plan must provide detailed procedures for rapidly stopping the waste feed, shutting down the combustor, and maintaining temperature and negative pressure in the combustion chamber during the hazardous waste residence time, if feasible. The plan must include calculations and information and data documenting the effectiveness of the plan's procedures for ensuring that combustion chamber temperature and negative pressure are maintained as is reasonably feasible. (40 CFR 63.1206(c)(4)(ii)(B))
 - (III) Corrective Measures. After any ESV opening that results in a failure to meet the emission standards as defined in 40 CFR Part 63.1206(c)(4)(i), the Permittee must investigate the cause of the ESV opening, take appropriate corrective measures to minimize such future ESV openings, and record the findings and corrective measures in the operating record. (40 CFR 63.1206(c)(4)(iii))
 - (IV) Reporting Requirements. The Permittee must submit to the Administrator a written report within 5 days of an ESV opening that results in failure to meet the emission standards of 40 CFR Part 63 Subpart EEE (as determined in 40 CFR Part 63.1206(c)(4)(i)) documenting the result of the investigation and corrective measures taken. (40 CFR 63.1206(c)(4)(iv))
 - (v) Combustion System Leaks. (40 CFR 63.1206(c)(5))
 - (I) Combustion system leaks of hazardous air pollutants must be controlled by (40 CFR 63.1206(c)(5)(i)):
 - (A) Keeping the combustion zone sealed to prevent combustion system leaks; or (40 CFR 63.1206(c)(5)(i)(A))
 - (B) Maintaining the maximum combustion zone pressure lower than ambient pressure using an instantaneous monitor; or (40 CFR 63.1206(c)(5)(i)(B))
 - (C) Upon prior written approval of the Administrator, an alternative means of control to provide control of combustion system leaks equivalent to maintenance of combustion zone pressure lower than ambient pressure; or (40 CFR 63.1206(c)(5)(i)(C))
 - (D) Upon prior written approval of the Administrator, other technique(s) which can be demonstrated to prevent fugitive emissions without use of instantaneous pressure limits; and (40 CFR 63.1206(c)(5)(i)(D))
 - (II) The Permittee must specify in the performance test workplan and Notification of Compliance the method that will be used to control combustion system leaks. If the Permittee controls combustion system leaks by maintaining the combustion zone pressure lower than ambient pressure using an instantaneous monitor, the Permittee must also specify in the performance test workplan and Notification of Compliance the monitoring and recording frequency of the pressure monitor, and specify how the monitoring approach will be integrated into the automatic waste feed cutoff system. (40 CFR 63.1206(c)(5)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(vi) Operator Training and Certification (40 CFR 63.1206(c)(6))

(I) The Permittee must establish training programs for all categories of personnel whose activities may reasonably be expected to directly affect emissions of hazardous air pollutants from the source. Such persons include, but are not limited to, chief facility operators, control room operators, continuous monitoring system operators, persons that sample and analyze feedstreams, persons that manage and charge feedstreams to the combustor, persons that operate emission control devices, and ash and waste handlers. Each training program shall be of a technical level commensurate with the person's job duties specified in the training manual. Each commensurate training program shall require an examination to be administered by the instructor at the end of the training course. Passing of this test shall be deemed the "certification" for personnel, except that, for control room operators, the training and certification program shall be as specified in 40 CFR Parts 63.1206(c)(6)(iii) through (c)(6)(vi). (40 CFR 63.1206(c)(6)(i))

(II) The Permittee must ensure that the source is operated and maintained at all times by persons who are trained and certified to perform these and any other duties that may affect emissions of hazardous air pollutants. A certified control room operator must be on duty at the site at all times the source is in operation. (40 CFR 63.1206(c)(6)(ii))

(III) Hazardous waste incinerator control room operators must (40 CFR 63.1206(c)(6)(iii)):

(A) Be trained and certified under a site-specific, source-developed and implemented program that meets the requirements of 40 CFR Part 63.1206(c)(6)(v); or (40 CFR 63.1206(c)(6)(iii)(A))

(B) Be trained under the requirements of, and certified under, one of the following American Society of Mechanical Engineers (ASME) standards: QHO-1-1994, QHO-1a-1996, or QHO-1-2004 (Standard for the Qualification and Certification of Hazardous Waste Incinerator Operators). If you elect to use the ASME program (40 CFR 63.1206(c)(6)(iii)(B)):

I. Control room operators must, prior to the compliance date, achieve provisional certification, and must submit an application to ASME and be scheduled for the full certification exam. Within one year of the compliance date, control room operators must achieve full certification (40 CFR 63.1206(c)(6)(iii)(B)(1));

II. New operators and operators of new sources must, before assuming their duties, achieve provisional certification, and must submit an application to ASME, and be scheduled for the full certification exam. Within one year of assuming their duties, these operators must achieve full certification; or (40 CFR 63.1206(c)(6)(iii)(B)(2))

(C) Be trained and certified under a State program. (40 CFR 63.1206(c)(6)(iii)(C))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (vi) Operator Training and Certification (40 CFR 63.1206(c)(6)) (continued)
 - (V) Site-specific, source developed and implemented training programs for control room operators must include the following elements (40 CFR 63.1206(c)(6)(v)):
 - (A) Training on the subjects listed under 40 CFR Parts 63.1206(c)(6)(v)(A)(1) through (9). (40 CFR 63.1206(c)(6)(v)(A));
 - (B) An examination designed and administered by the instructor; and (40 CFR 63.1206(c)(6)(v)(B))
 - (C) Written material covering the training course topics that may serve as reference material following completion of the course. (40 CFR 63.1206(c)(6)(v)(C))
 - (VI) To maintain control room operator qualification under a site-specific, source developed and implemented training program as provided by 40 CFR Part 63.1206(c)(6)(v), control room operators must complete an annual review or refresher course covering, at a minimum, the following topics (40 CFR 63.1206(c)(6)(vi)):
 - (A) Update of regulations (40 CFR 63.1206(c)(6)(vi)(A));
 - (B) Combustor operation, including startup and shutdown procedures, waste firing, and residue handling (40 CFR 63.1206(c)(6)(vi)(B));
 - (C) Inspection and maintenance (40 CFR 63.1206(c)(6)(vi)(C));
 - (D) Responses to malfunctions or conditions that may lead to malfunction; and (40 CFR 63.1206(c)(6)(vi)(D))
 - (E) Operating problems encountered by the operator. (40 CFR 63.1206(c)(6)(vi)(E))
 - (VII) The Permittee must record the operator training and certification program in the operating record. (40 CFR 63.1206(c)(6)(vii))
 - (vii) Operation and Maintenance Plan (40 CFR 63.1206(c)(7))
 - (I) The Permittee must prepare and at all times operate according to an operation and maintenance plan that describes in detail procedures for operation, inspection, maintenance, and corrective measures for all components of the combustor, including associated pollution control equipment, that could affect emissions of regulated hazardous air pollutants. (40 CFR 63.1206(c)(7)(i))
 - (II) The plan must prescribe how you will operate and maintain the combustor in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels achieved during the comprehensive performance test. (40 CFR 63.1206(c)(7)(ii))
 - (III) This plan ensures compliance with the operation and maintenance requirements of 40 CFR Part 63.6(e) and minimizes emissions of pollutants, automatic waste feed cutoffs, and malfunctions. (40 CFR 63.1206(c)(7)(iii))
 - (IV) The Permittee must record the plan in the operating record. (40 CFR 63.1206(c)(7)(iv))
 - (viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8))
 - (I) If the combustor is equipped with a baghouse (fabric filter), the Permittee must continuously operate either (40 CFR 63.1206(c)(8)(i)):
 - (A) A bag leak detection system that meets the specifications and requirements of 40 CFR Part 63.1206(c)(8)(ii) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(8)(iii) and (iv); or (40 CFR 63.1206(c)(8)(i)(A))
 - (B) A particulate matter detection system under 40 CFR Part 63.1206(c)(9). (40 CFR 63.1206(c)(8)(i)(B))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)
 - (II) Bag Leak Detection System Specification and Requirements. (40 CFR 63.1206(c)(8)(ii))
 - (A) The bag leak detection system must be certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligrams per actual cubic meter unless the Permittee demonstrates, under 40 CFR Part 63.1209(g)(1), that a higher detection limit would routinely detect particulate matter loadings during normal operations (40 CFR 63.1206(c)(8)(ii)(A));
 - (B) The bag leak detection system shall provide output of relative or absolute particulate matter loadings (40 CFR 63.1206(c)(8)(ii)(B));
 - (C) The bag leak detection system shall be equipped with an alarm system that will sound an audible alarm when an increase in relative particulate loadings is detected over a preset level (40 CFR 63.1206(c)(8)(ii)(C));
 - (D) The bag leak detection system shall be installed and operated in a manner consistent with available written guidance from the U.S. Environmental Protection Agency or, in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, and adjustment of the system (40 CFR 63.1206(c)(8)(ii)(D));
 - (E) The initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time (40 CFR 63.1206(c)(8)(ii)(E));
 - (F) Following initial adjustment, the Permittee must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in the operation and maintenance plan required under 40 CFR Part 63.1206(c)(7). The Permittee must not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365 day period unless such adjustment follows a complete baghouse inspection which demonstrates the baghouse is in good operating condition (40 CFR 63.1206(c)(8)(ii)(F));
 - (G) For negative pressure or induced air baghouses, and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag leak detector shall be installed downstream of the baghouse and upstream of any wet acid gas scrubber; and (40 CFR 63.1206(c)(8)(ii)(G))
 - (H) Where multiple detectors are required, the system's instrumentation and alarm system may be shared among the detectors. (40 CFR 63.1206(c)(8)(ii)(H))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)

(III) Bag Leak Detection System Corrective Measures Requirements. The operating and maintenance plan required by 40 CFR Part 63.1206(c)(7) must include a corrective measures plan that specifies the procedures the Permittee will follow in the case of a bag leak detection system alarm or malfunction. The corrective measures plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm or bag leak detection system malfunction in accordance with the requirements of 40 CFR Part 63.1206(c)(8)(iii)(A) as well as the corrective measures taken to correct the control device or bag leak detection system malfunction or to minimize emissions in accordance with the requirements of 40 CFR Part 63.1206(c)(8)(iii)(B). Failure to initiate the corrective measures required by this paragraph is failure to ensure compliance with the emission standards in 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(8)(iii))

(A) The Permittee must initiate the procedures used to determine the cause of the alarm or bag leak detection system malfunction within 30 minutes of the time the alarm first sounds; and (40 CFR 63.1206(c)(8)(iii)(A))

(B) The Permittee must alleviate the cause of the alarm or bag leak detection system malfunction by taking the necessary corrective measure(s) which may include, but are not to be limited to, the following (40 CFR 63.1206(c)(8)(iii)(B)):

- I. Inspecting the baghouse for air leaks, torn or broken filter elements, or any other malfunction that may cause an increase in emissions (40 CFR 63.1206(c)(8)(iii)(B)(1));
- II. Sealing off defective bags or filter media (40 CFR 63.1206(c)(8)(iii)(B)(2));
- III. Replacing defective bags or filter media, or otherwise repairing the control device (40 CFR 63.1206(c)(8)(iii)(B)(3));
- IV. Sealing off a defective baghouse compartment (40 CFR 63.1206(c)(8)(iii)(B)(4));
- V. Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system; or (40 CFR 63.1206(c)(8)(iii)(B)(5))
- VI. Shutting down the combustor. (40 CFR 63.1206(c)(8)(iii)(B)(6))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)

(IV) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or the bag leak detection system is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and bag leak detection system malfunctions and the revisions to the design, operation, or maintenance of the combustor, baghouse, or bag leak detection system the Permittee is taking to minimize exceedances and bag leak detection system malfunctions. To document compliance with this requirement (40 CFR 63.1206(c)(8)(iv)):

(A) The Permittee must keep records of the date, time, and duration of each alarm and bag leak detection system malfunction, the time corrective action was initiated and completed, and a brief description of the cause of the alarm or bag leak detection system malfunction and the corrective action taken (40 CFR 63.1206(c)(8)(iv)(A));

(B) The Permittee must record the percent of the operating time during each 6-month period that the alarm sounds and the bag leak detection system malfunctions (40 CFR 63.1206(c)(8)(iv)(B));

(C) If inspection of the fabric filter demonstrates that no corrective action is required, then no alarm time is counted; and (40 CFR 63.1206(c)(8)(iv)(C))

(D) If corrective action is required, each alarm shall be counted as a minimum of 1 hour. Each bag leak detection system malfunction shall also be counted as a minimum of 1 hour. (40 CFR 63.1206(c)(8)(iv)(D))

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9))

(I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i))

(A) The PMDS must be certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligrams per actual cubic meter unless the Permittee demonstrates, under 40 CFR Part 63.1209(g)(1), that a higher detection limit would routinely detect particulate matter loadings during normal operations (40 CFR 63.1206(c)(9)(i)(A));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i)) (continued)

(B) The particulate matter detector shall provide output of relative or absolute particulate matter loadings (40 CFR 63.1206(c)(9)(i)(B));

(C) The PMDS shall be equipped with an alarm system that will sound an audible alarm when an increase in relative or absolute particulate loadings is detected over the set-point (40 CFR 63.1206(c)(9)(i)(C));

(D) The Permittee must install, operate, and maintain the PMDS in a manner consistent with the provisions of 40 CFR Part 63.1209(c)(9) and available written guidance from the U.S. Environmental Protection Agency or, in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, maintenance and quality assurance of the system. (40 CFR 63.1206(c)(9)(i)(D))

I. Set-points established without extrapolation. If you establish the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that will reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below those demonstrated during the comprehensive performance test. The Permittee's recommended quality assurance procedures may include periodic testing under as-found conditions (i.e., normal operations) to obtain additional PM concentration and PMDS response run pairs, as warranted. (40 CFR 63.1206(c)(9)(i)(D)(1))

II. Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that will reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the value that correlates to the alarm set-point. (40 CFR 63.1206(c)(9)(i)(D)(2))

(E) The Permittee must include procedures for installation, operation, maintenance, and quality assurance of the PMDS in the site-specific continuous monitoring system test plan required under 40 CFR Parts 63.1207(e) and 63.8(e)(3) (40 CFR 63.1206(c)(9)(i)(E));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)
 - (I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i)) (continued)
 - (F) Where multiple detectors are required to monitor multiple control devices, the system's instrumentation and alarm system may be shared among the detectors. (40 CFR 63.1206(c)(9)(i)(F))
 - (G) The Permittee must establish the alarm set-point as a 6-hour rolling average as provided by 40 CFR Parts 63.1206(c)(9)(ii), (c)(9)(iii), and (c)(9)(iv) (40 CFR 63.1206(c)(9)(i)(G));
 - (H) The Permittee's PMDS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. The Permittee must update the 6-hour rolling average of the detector response each hour with a one-hour block average that is the average of the detector responses over each 15-minute block; and (40 CFR 63.1206(c)(9)(i)(H))
 - (I) If the Permittee exceeds the alarm set-point (or if your PMDS malfunctions), the Permittee must comply with the corrective measures under 40 CFR Part 63.1206(c)(9)(vii). (40 CFR 63.1206(c)(9)(i)(I))
 - (II) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii))
 - (A) Establishing the Initial Set-Point Without Extrapolation. (40 CFR 63.1206(c)(9)(iii)(A))
 - I. If the Permittee establishes the initial alarm set-point without extrapolation, the alarm set-point is the average of the test run averages of the PMDS response during the runs of the comprehensive performance test that document compliance with the PM emission standard. (40 CFR 63.1206(c)(9)(iii)(A)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)
 - (II) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii)) (continued)
 - (A) Establishing the Initial Set-Point Without Extrapolation. (40 CFR 63.1206(c)(9)(iii)(A)) (continued)
 - II. During the comprehensive performance test, the Permittee may simulate PM emission concentrations at the upper end of the range of normal operations by means including feeding high levels of ash and detuning the emission control equipment. (40 CFR 63.1206(c)(9)(iii)(A)(2))
 - (B) Establishing the Initial Set-point by Extrapolation. The Permittee may extrapolate the particulate matter detector response to establish the alarm set-point under the procedures (40 CFR 63.1206(c)(9)(iii)(B)):
 - I. The Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the procedures the Permittee will use to establish an approximate correlation curve using the three pairs of 40 CFR Part 60 Appendix A-3 Method 5 or 5I data and PMDS data from the comprehensive performance test, the data pairs used to establish the correlation curve for the Documentation of Compliance under 40 CFR Part 63.1206(c)(9)(ii), and additional data pairs, as warranted. (40 CFR 63.1206(c)(9)(iii)(B)(1))
 - II. The Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the Permittee's determination of whether multiple correlation curves are needed considering the design and operation of the Permittee's combustor and PMDS. If so, the Permittee must recommend the number of data pairs needed to establish those correlation curves and how the data will be obtained. (40 CFR 63.1206(c)(9)(iii)(B)(2))
 - III. During the comprehensive performance test, The Permittee may simulate PM emission concentrations at the upper end of the range of normal operations by means including feeding high levels of ash and detuning the emission control equipment. (40 CFR 63.1206(c)(9)(iii)(B)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(II) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii)) (continued)

(B) Establishing the Initial Set-point by Extrapolation. The Permittee may extrapolate the particulate matter detector response to establish the alarm set-point under the procedures (40 CFR 63.1206(c)(9)(iii)(B)):

IV. Data obtained up to 60 months prior to the comprehensive performance test may be used provided that the design and operation of the combustor or PMDS has not changed in a manner that may adversely affect the correlation of PM concentrations and PMDS response. (40 CFR 63.1206(c)(9)(iii)(B)(4))

V. The Permittee may include a zero point correlation value. To establish a zero point, the Permittee must follow the procedures under 40 CFR Part 63.1206(c)(9)(ii)(C)(2). (40 CFR 63.1206(c)(9)(iii)(B)(5))

VI. The Permittee must use a least-squares regression model to correlate PM concentrations to PMDS responses for data pairs. The Permittee may assume a linear regression model approximates the relationship between PM concentrations and PMDS responses. (40 CFR 63.1206(c)(9)(iii)(B)(6))

VII. The Permittee must establish the alarm set-point as the PMDS response that corresponds to a PM concentration that is 50% of the PM emission standard or 125% of the highest PM concentration used to develop the correlation, whichever is greater. The emission concentration used to extrapolate the PMDS response must not exceed the PM emission standard. (40 CFR 63.1206(c)(9)(iii)(B)(7))

(IV) Revising the Notification of Compliance Alarm Set-Point (40 CFR 63.1206(c)(9)(iv))

(A) Revising Set-Points Established without Extrapolation. If the Permittee establishes the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must establish a new alarm set-point in the Notification of Compliance following each comprehensive performance test as the average of the test run averages of the PMDS response during the runs of the comprehensive performance test that document compliance with the PM emission standard. (40 CFR 63.1206(c)(9)(iv)(A))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(IV) Revising the Notification of Compliance Alarm Set-Point (40 CFR 63.1206(c)(9)(iv)) (continued)

(B) Revising Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the procedures for periodically revising the alarm set-point, considering the additional data pairs obtained during periodic comprehensive performance tests and data pairs obtained from other tests, such as for quality assurance. (40 CFR 63.1206(c)(9)(iv)(B))

(V) Quality Assurance (40 CFR 63.1206(c)(9)(v))

(A) Set-Points Established without Extrapolation. If the Permittee establishes the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the average of the PM concentrations demonstrated during the comprehensive performance test. The Permittee's recommended quality assurance procedures may include periodic testing under as-found conditions (i.e., normal operations) to obtain additional PM concentration and PMDS response run pairs, as warranted. (40 CFR 63.1206(c)(9)(v)(A))

(B) Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the value that correlated to the alarm set-point. (40 CFR 63.1206(c)(9)(v)(B))

(VI) PMDS are used for Compliance Assurance only. For a PMDS for which the alarm set-point is established by extrapolation using a correlation curve under 40 CFR Parts 63.1206(c)(9)(ii), (c)(9)(iii)(B), and (c)(9)(iv)(B), an exceedance of the PMDS response that appears to correlate with a PM concentration that exceeds the PM emission standard is not by itself evidence that the standard has been exceeded. (40 CFR 63.1206(c)(9)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(VII) PMDS Corrective Measures Requirements. The operating and maintenance plan required by 40 CFR Part 63.1206(c)(7) must include a corrective measures plan that specifies the procedures the Permittee will follow in the case of a PMDS alarm or malfunction. The corrective measures plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm or PMDS malfunction as well as the corrective measures taken to correct the control device or PMDS malfunction or minimize emissions as specified below. Failure to initiate the corrective measures required by 40 CFR Part 63.1206(c)(9)(vi) is failure to ensure compliance with the emission standards in 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(9)(vii))

(A) The Permittee must initiate the procedures used to determine the cause of the alarm or PMDS malfunction within 30 minutes of the time the alarm first sounds or the PMDS malfunctions; and (40 CFR 63.1206(c)(9)(vii)(A))

(B) The Permittee must alleviate the cause of the alarm or the PMDS malfunction by taking the necessary corrective measure(s) which may include shutting down the combustor. (40 CFR 63.1206(c)(9)(vii)(B))

(VIII) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or when the PMDS is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and the revisions to the design, operation, or maintenance of the combustor, emission control device, or PMDS the Permittee is taking to minimize exceedances. To document compliance with this requirement (40 CFR 63.1206(c)(9)(viii)):

(A) The Permittee must keep records of the date, time, and duration of each alarm and PMDS malfunction, the time corrective action was initiated and completed, and a brief description of the cause of the alarm or PMDS malfunction and the corrective action taken (40 CFR 63.1206(c)(9)(viii)(A));

(B) The Permittee must record the percent of the operating time during each 6-month period that the alarm sounds and the PMDS malfunctions (40 CFR 63.1206(c)(9)(viii)(B));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(VIII) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or when the PMDS is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and the revisions to the design, operation, or maintenance of the combustor, emission control device, or PMDS the Permittee is taking to minimize exceedances. To document compliance with this requirement (40 CFR 63.1206(c)(9)(viii)) (continued):

(C) If inspection of the emission control device demonstrates that no corrective action is required, then no alarm time is counted; and (40 CFR 63.1206(c)(9)(viii)(C))

(D) If corrective action to the emission control device is required, each alarm shall be counted as a minimum of 1 hour. Each PMDS malfunction shall also be counted as a minimum of 1 hour. (40 CFR 63.1206(c)(9)(viii)(D))

(3) Performance Testing Requirements (40 CFR 63.1207)

The Permittee shall follow the performance testing requirements under 40 CFR Part 63.1207 as applicable.

(4) Test Methods (40 CFR 63.1208)

The Permittee shall follow the test methods under 40 CFR Part 63.1208 as applicable.

(5) Monitoring Requirements (40 CFR 63.1209)

(a) Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS). (40 CFR 63.1209(a))

(i) CEMS & COMS Pollutant Types (40 CFR 63.1209(a)(1))

(I) The Permittee must use either a carbon monoxide or hydrocarbon CEMS to demonstrate and monitor compliance with the carbon monoxide and hydrocarbon standard under 40 CFR Part 63 Subpart EEE. The Permittee must also use an oxygen CEMS to continuously correct the carbon monoxide or hydrocarbon level to 7 percent oxygen. (40 CFR Part 63.1209(a)(1)(i))

(II) COMS Requirements (40 CFR 63.1209 (a)(1)(ii))

(A) The Permittee must maintain and operate each COMS in accordance with the requirements of 40 CFR Part 63.8(c) except for the requirements under 40 CFR Part 63.8(c)(3). The requirements of 40 CFR Part 63.1211(c) shall be complied with instead of 40 CFR Part 63.8(c)(3); and (40 CFR 63.1209 (a)(1)(ii)(C))

(B) Compliance is based on a six-minute block average. (40 CFR 63.1209 (a)(1)(ii)(D))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).* (40 CFR 63.1209(a)) (continued)

(i) *CEMS & COMS Pollutant Types* (40 CFR 63.1209(a)(1)) (continued)

(III) The Permittee must install, calibrate, maintain, and operate a particulate matter CEMS to demonstrate and monitor compliance with the particulate matter standards under 40 CFR Part 63 Subpart EEE. However, compliance with the requirements in this section to install, calibrate, maintain and operate the PM CEMS is not required until such time that the Agency promulgates all performance specifications and operational requirements applicable to PM CEMS. (40 CFR 63.1209 (a)(1)(iii))

(ii) *Performance Specifications.* The Permittee must install, calibrate, maintain, and continuously operate the CEMS and COMS in compliance with the quality assurance procedures provided in the appendix to 40 CFR Part 63 Subpart EEE and Performance Specifications 1 (opacity), 4B (carbon monoxide and oxygen), and 8A (hydrocarbons) in 40 CFR Part 60 Appendix B. (40 CFR Part 63.1209(a)(2))

(iii) *Carbon Monoxide Readings Exceeding the Span.* (40 CFR 63.1209(a)(3))

(I) Except as provided by 40 CFR Part 63.1209(a)(3)(ii), if a carbon monoxide CEMS detects a response that results in a one-minute average at or above the 3,000 ppmv span level required by Performance Specification 4B in 40 CFR Part 60 Appendix B, part 60, the one-minute average must be recorded as 10,000 ppmv. The one-minute 10,000 ppmv value must be used for calculating the hourly rolling average carbon monoxide level. (40 CFR 63.1209(a)(3)(i))

(II) Carbon monoxide CEMS that use a span value of 10,000 ppmv when one-minute carbon monoxide levels are equal to or exceed 3,000 ppmv are not subject to 40 CFR Part 63.1209(a)(3)(i). Carbon monoxide CEMS that use a span value of 10,000 are subject to the same CEMS performance and equipment specifications when operating in the range of 3,000 ppmv to 10,000 ppmv that are provided by Performance Specification 4B for other carbon monoxide CEMS, except (40 CFR 63.1209(a)(3)(ii)):

(A) Calibration drift must be less than 300 ppmv; and (40 CFR 63.1209(a)(3)(ii)(A))

(B) Calibration error must be less than 500 ppmv. (40 CFR 63.1209(a)(3)(ii)(B))

(iv) *Hydrocarbon Readings Exceeding the Span.* (40 CFR 63.1209(a)(4))

(I) Except as provided by 40 CFR Part 63.1209(a)(4)(ii), if a hydrocarbon CEMS detects a response that results in a one-minute average at or above the 100 ppmv span level required by Performance Specification 8A in 40 CFR Part 60 Appendix B the one-minute average must be recorded as 500 ppmv. The one-minute 500 ppmv value must be used for calculating the hourly rolling average HC level. (40 CFR 63.1209(a)(4)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).* (40 CFR 63.1209(a)) (continued)

(iv) *Hydrocarbon Readings Exceeding the Span.* (40 CFR 63.1209(a)(4)) (continued)

(II) Hydrocarbon CEMS that use a span value of 500 ppmv when one-minute hydrocarbon levels are equal to or exceed 100 ppmv are not subject to 40 CFR Part 63.1209(a)(4)(i). Hydrocarbon CEMS that use a span value of 500 ppmv are subject to the same CEMS performance and equipment specifications when operating in the range of 100 ppmv to 500 ppmv that are provided by Performance Specification 8A for other hydrocarbon CEMS, except those specified under 40 CFR Parts 63.1209(a)(4)(ii)(A) through (E). (40 CFR 63.1209(a)(4)(ii))

(A) The zero and high-level calibration gas must have a hydrocarbon level of between 0 and 100 ppmv, and between 250 and 450 ppmv, respectively (40 CFR 63.1209(a)(4)(ii)(A));

(B) The strip chart recorder, computer, or digital recorder must be capable of recording all readings within the CEM measurement range and must have a resolution of 2.5 ppmv (40 CFR 63.1209(a)(4)(ii)(B));

(C) The CEMS calibration must not differ by more than ± 15 ppmv after each 24-hour period of the seven day test at both zero and high levels (40 CFR 63.1209(a)(4)(ii)(C));

(D) The calibration error must be no greater than 25 ppmv; and (40 CFR 63.1209(a)(4)(ii)(D))

(E) The zero level, mid-level, and high level calibration gas used to determine calibration error must have a hydrocarbon level of 0-200 ppmv, 150-200 ppmv, and 350-400 ppmv, respectively. (40 CFR 63.1209(a)(4)(ii)(E))

(v) *Petitions to Use CEMS for Other Standards.* The Permittee may petition the Administrator to use CEMS for compliance monitoring for particulate matter, mercury, semivolatile metals, low volatile metals, and hydrogen chloride and chlorine gas under 40 CFR Part 63.8(f) in lieu of compliance with the corresponding operating parameter limits under 40 CFR Part 63.1209. (40 CFR 63.1209(a)(5))

(vi) *Calculation of Rolling Averages* (40 CFR 63.1209(a)(6))

(I) *Calculation of Rolling Averages Initially.* The carbon monoxide or hydrocarbon CEMS must begin recording one-minute average values by 12:01 a.m. and hourly rolling average values by 1:01 a.m., when 60 one-minute values will be available for calculating the initial hourly rolling average for those sources that come into compliance on the regulatory compliance date. Sources that elect to come into compliance before the regulatory compliance date must begin recording one-minute and hourly rolling average values within 60 seconds and 60 minutes (when 60 one-minute values will be available for calculating the initial hourly rolling average), respectively, from the time at which compliance begins. (40 CFR 63.1209(a)(6)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).* (40 CFR 63.1209(a)) (continued)

(vi) *Calculation of Rolling Averages* (40 CFR 63.1209(a)(6)) (continued)

(II) *Calculation of Rolling Averages Upon Intermittent Operations.* The Permittee must ignore periods of time when one-minute values are not available for calculating the hourly rolling average. When one-minute values become available again, the first one-minute value is added to the previous 59 values to calculate the hourly rolling average. (40 CFR 63.1209(a)(6)(ii))

(III) *Calculation of Rolling Averages when the Hazardous Waste Feed is Cutoff.* (40 CFR 63.1209(a)(6)(iii))

(A) Except as provided by 40 CFR Part 63.1209(a)(6)(iii)(B), the Permittee must continue monitoring carbon monoxide and hydrocarbons when the hazardous waste feed is cutoff if the source is operating. The Permittee must not resume feeding hazardous waste if the emission levels exceed the standard. (40 CFR 63.1209(a)(6)(iii)(A))

(B) The Permittee is not subject to the CEMS requirements of 40 CFR Part 63 Subpart EEE during periods of time the Permittee meets the requirements of 40 CFR Part 63.1206(b)(1)(ii) (compliance with emissions standards for nonhazardous waste burning sources when the Permittee is not burning hazardous waste). (40 CFR 63.1209(a)(6)(iii)(B))

(vii) *Operating Parameter Limits for Hydrocarbons.* If the Permittee elects to comply with the carbon monoxide and hydrocarbon emission standard by continuously monitoring carbon monoxide with a CEMS, the Permittee must demonstrate that hydrocarbon emissions during the comprehensive performance test do not exceed the hydrocarbon emissions standard. In addition, the limits the Permittee establishes on the destruction and removal efficiency (DRE) operating parameters required under 40 CFR Part 63.1209(j) also ensure that the Permittee maintains compliance with the hydrocarbon emission standard. If the Permittee does not conduct the hydrocarbon demonstration and DRE tests concurrently, the Permittee must establish separate operating parameter limits under 40 CFR Part 63.1209(j) based on each test and the more restrictive of the operating parameter limits applies. (40 CFR 63.1209(a)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(b) Other Continuous Monitoring Systems (CMS). (40 CFR 63.1209(b))

- (i) The Permittee must use CMS (e.g., thermocouples, pressure transducers, flow meters) to document compliance with the applicable operating parameter limits under 40 CFR Part 63.1209. (40 CFR 63.1209(b)(1))
- (ii) The Permittee must install and operate continuous monitoring systems other than CEMS in conformance with 40 CFR Part 63.8(c)(3) that requires the Permittee, at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system (40 CFR 63.1209(b)(2)):
- (iii) CMS must sample the regulated parameter without interruption, and evaluate the detector response at least once each 15 seconds, and compute and record the average values at least every 60 seconds. (40 CFR 63.1209(b)(3))
- (iv) The span of the non-CEMS CMS detector must not be exceeded. The Permittee must interlock the span limits into the automatic waste feed cutoff system required by 40 CFR Part 63.1206(c)(3). (40 CFR 63.1209(b)(4))
- (v) The Permittee shall follow the *Calculation of Rolling Averages* requirements under 40 CFR Parts 63.1209(b)(5)(i) through (iii). (40 CFR 63.1209(b)(5))

(c) Analysis of Feedstreams (40 CFR 63.1209(c))

- (i) *General*. Prior to feeding the material, The Permittee must obtain an analysis of each feedstream that is sufficient to document compliance with the applicable feedrate limits provided by 40 CFR Part 63.1209. (40 CFR 63.1209(c)(1))
- (ii) *Feedstream Analysis Plan*. The Permittee must develop and implement a feedstream analysis plan and record it in the operating record. The plan must specify at a minimum those listed under 40 CFR Parts 63.1209(c)(2)(i) through (vi). (40 CFR 63.1209(c)(2))
- (iii) *Review and Approval of Analysis Plan*. The Permittee must submit the feedstream analysis plan to the Administrator for review and approval, if requested. (40 CFR 63.1209(c)(3))
- (iv) *Compliance with Feedrate Limits*. To comply with the applicable feedrate limits of 40 CFR Part 63.1209, the Permittee must monitor and record feedrates as described under 40 CFR Parts 63.1209(c)(4)(i) through (iii). (40 CFR 63.1209(c)(4))
- (v) *Waiver of Monitoring of Constituents in Certain Feedstreams*. The Permittee is not required to monitor levels of metals or chlorine in the following feedstreams to document compliance with the feedrate limits under this section provided that the Permittee documents in the comprehensive performance test plan the expected levels of the constituent in the feedstream and account for those assumed feedrate levels in documenting compliance with feedrate limits: natural gas, process air, and feedstreams from vapor recovery systems. (40 CFR 63.1209(c)(5))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(d) Performance Evaluations. (40 CFR 63.1209(d))

(i) The requirements of 40 CFR Parts 63.8(d) (Quality control program) and (e) (Performance evaluation of continuous monitoring systems) apply, except that the Permittee must conduct performance evaluations of components of the CMS under the frequency and procedures (for example, submittal of performance evaluation test plan for review and approval) applicable to performance tests as provided by 40 CFR Part 63.1207. (40 CFR 63.1209(d)(1))

(ii) The Permittee must comply with the quality assurance procedures for CEMS prescribed in the appendix to 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(d)(2))

(e) Conduct of Monitoring. The provisions of 40 CFR Part 63.8(b) apply. (40 CFR 63.1209(e))

(f) Operation and Maintenance of Continuous Monitoring Systems. The provisions of 40 CFR Part 63.8(c) apply except (40 CFR 63.1209(f)):

(i) 40 CFR Part 63.8(c)(3). The requirements of 40 CFR Part 63.1211(c), that requires CMSs to be installed, calibrated, and operational on the compliance date, shall be complied with instead of 40 CFR Part 63.8(c)(3) (40 CFR 63.1209(f)(1));

(ii) 40 CFR Part 63.8(c)(4)(ii). The performance specifications for carbon monoxide, hydrocarbon, and oxygen CEMSs in 40 CFR Part 60 Subpart B that requires detectors to measure the sample concentration at least once every 15 seconds for calculating an average emission rate once every 60 seconds shall be complied with instead of 40 CFR Part 63.8(c)(4)(ii); and (40 CFR 63.1209(f)(2))

(iii) 40 CFR Parts 63.8(c)(4)(i), (c)(5), and (c)(7)(i)(C) pertaining to COMS apply only to Permittees of hazardous waste burning cement kilns. (40 CFR 63.1209(f)(3))

(g) Alternative Monitoring Requirements other than Continuous Emissions Monitoring Systems (CEMS) (40 CFR 63.1209(g))

(i) The Permittee may request the use of *Alternatives to Operating Parameter Monitoring Requirements* by following the steps under 40 CFR Parts 63.1209(g)(1)(i) through (iv). (40 CFR 63.1209(g)(1))

(ii) Administrator's Discretion to Specify Additional or Alternative Requirements. The Administrator may determine on a case-by-case basis at any time (e.g., during review of the comprehensive performance test plan, during compliance certification review) that the Permittee may need to limit additional or alternative operating parameters (e.g., opacity in addition to or in lieu of operating parameter limits on the particulate matter control device) or that alternative approaches to establish limits on operating parameters may be necessary to document compliance with the emission standards of this 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(g)(2))

(h) Reduction of Monitoring Data. The provisions of 40 CFR Part 63.8(g) apply. (40 CFR 63.1209(h))

(i) When an Operating Parameter is Applicable to Multiple Standards. 40 CFR Parts 63.1209(j) through (p) require the Permittee to establish limits on operating parameters based on comprehensive performance testing to ensure you maintain compliance with the emission standards of 40 CFR Part 63 Subpart EEE. For several parameters, the Permittee must establish a limit for the parameter to ensure compliance with more than one emission standard. An example is a limit on minimum combustion chamber temperature to ensure compliance with both the DRE standard of 40 CFR Part 63.1209(j) and the dioxin/furan standard of 40 CFR Part 63.1209(k). If the performance tests for such standards are not performed simultaneously, the most stringent limit for a parameter derived from independent performance tests applies. (40 CFR 63.1209(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(j) *DRE.* To remain in compliance with the destruction and removal efficiency (DRE) standard, the Permittee must establish operating limits during the comprehensive performance test (or during a previous DRE test under provisions of 40 CFR Part 63.1206(b)(7)) for the following parameters, unless the limits are based on manufacturer specifications, and comply with those limits at all times that hazardous waste remains in the combustion chamber (i.e., the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated) (40 CFR 63.1209(j)):

(i) *Minimum Combustion Chamber Temperature.* (40 CFR 63.1209(j)(1))

(I) The Permittee must measure the temperature of each combustion chamber at a location that best represents, as practicable, the bulk gas temperature in the combustion zone. The Permittee must document the temperature measurement location in the test plan the Permittee submits under 40 CFR Part 63.1207(e) (40 CFR 63.1209(j)(1)(i));

(II) The Permittee must establish a minimum hourly rolling average limit as the average of the test run averages (40 CFR 63.1209(j)(1)(ii));

(ii) *Maximum Flue Gas Flowrate or Production Rate.* (40 CFR 63.1209(j)(2))

(I) As an indicator of gas residence time in the control device, the Permittee must establish and comply with a limit on the maximum flue gas flowrate, the maximum production rate, or another parameter that the Permittee documents in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each run. (40 CFR 63.1209(j)(2)(i))

(II) The Permittee must comply with this limit on a hourly rolling average basis; (40 CFR 63.1209(j)(2)(ii))

(iii) *Maximum Hazardous Waste Feedrate.* (40 CFR 63.1209(j)(3))

(I) The Permittee must establish limits on the maximum pumpable and total (i.e., pumpable and nonpumpable) hazardous waste feedrate for each location where hazardous waste is fed. (40 CFR 63.1209(j)(3)(i))

(II) The Permittee must establish the limits as the average of the maximum hourly rolling averages for each run. (40 CFR 63.1209(j)(3)(ii))

(III) The Permittee must comply with the feedrate limit(s) on a hourly rolling average basis; (40 CFR 63.1209(j)(3)(iii))

(iv) *Operation of Waste Firing System.* The Permittee must specify operating parameters and limits to ensure that good operation of each hazardous waste firing system is maintained. (40 CFR 63.1209(j)(4))

(k) *Dioxins and Furans.* The Permittee must comply with the dioxin and furans emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(k)(1) through (9). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(k))

(l) *Mercury.* The Permittee must comply with the mercury emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(l)(1) through (4). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(l))

(m) *Particulate Matter.* The Permittee must comply with the particulate matter emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(m)(1) through (3). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(m))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

- (n) *Semivolatile Metals and Low Volatility Metals.* The Permittee must comply with the semivolatile metal (cadmium and lead) and low volatile metal (arsenic, beryllium, and chromium) emission standards by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(n)(1) through (5). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(n))
- (o) *Hydrogen Chloride and Chlorine Gas.* The Permittee must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(o)(1) through (4). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(o))
- (p) *Maximum Combustion Chamber Pressure.* If the Permittee complies with the requirements for combustion system leaks under 40 CFR Part 63.1206(c)(5) by maintaining the maximum combustion chamber zone pressure lower than ambient pressure to prevent combustion systems leaks from hazardous waste combustion, the Permittee must perform instantaneous monitoring of pressure and the automatic waste feed cutoff system must be engaged when negative pressure is not adequately maintained. (40 CFR 63.1209(p))
- (q) *Operating Under Different Modes of Operation.* If the Permittee operates under different modes of operation, the Permittee must establish operating parameter limits for each mode. The Permittee must document in the operating record when you change a mode of operation and begin complying with the operating limits for an alternative mode of operation. (40 CFR 63.1209(q))
 - (i) Operating under otherwise applicable standards after the hazardous waste residence time has transpired. As provided by 40 CFR Part 63.1206(b)(1)(ii), the Permittee may operate under otherwise applicable requirements promulgated under sections 112 and 129 of the Clean Air Act in lieu of the substantive requirements of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(q)(1))
 - (I) The otherwise applicable requirements promulgated under sections 112 and 129 of the Clean Air Act are applicable requirements under 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(q)(1)(i))
 - (II) The Permittee must specify (e.g., by reference) the otherwise applicable requirements as a mode of operation in the Permittee's Documentation of Compliance under 40 CFR Part 63.1211(c), the Permittee's Notification of Compliance under 40 CFR Part 63.1207(j), and the Permittee's title V permit application. These requirements include the otherwise applicable requirements governing emission standards, monitoring and compliance, and notification, reporting, and recordkeeping. (40 CFR 63.1209(q)(1)(ii))
 - (ii) *Calculating Rolling Averages Under Different Modes of Operation.* When the Permittee transitions to a different mode of operation, the Permittee must calculate rolling averages as follows (40 CFR 63.1209(q)(2)):
 - (I) *Retrieval Approach.* Calculate rolling averages anew using the continuous monitoring system values previously recorded for that mode of operation (i.e., the Permittee ignores continuous monitoring system values subsequently recorded under other modes of operation when the Permittee transitions back to a mode of operation); or (40 CFR 63.1209(q)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(q) *Operating Under Different Modes of Operation.* If the Permittee operates under different modes of operation, the Permittee must establish operating parameter limits for each mode. The Permittee must document in the operating record when you change a mode of operation and begin complying with the operating limits for an alternative mode of operation. (40 CFR 63.1209(q)) (continued)

(ii) *Calculating Rolling Averages Under Different Modes of Operation.* When the Permittee transitions to a different mode of operation, the Permittee must calculate rolling averages as follows (40 CFR 63.1209(q)(2)) (continued):

(II) *Start Anew.* Calculate rolling averages anew without considering previous recordings. (40 CFR 63.1209(q)(2)(ii))

(A) Rolling averages must be calculated as the average of the available one-minute values for the parameter until enough one-minute values are available to calculate hourly or 12-hour rolling averages, whichever is applicable to the parameter. (40 CFR 63.1209(q)(2)(ii)(A))

(B) The Permittee may not transition to a new mode of operation using this approach if the most recent operation in that mode resulted in an exceedance of an applicable emission standard measured with a CEMS or operating parameter limit prior to the hazardous waste residence time expiring; or (40 CFR 63.1209(q)(2)(ii)(B))

(III) *Seamless Transition.* Continue calculating rolling averages using data from the previous operating mode provided that both the operating limit and the averaging period for the parameter are the same for both modes of operation. (40 CFR 63.1209(q)(2)(iii))

(r) *Averaging Periods.* The averaging periods specified in 40 CFR Part 63.1209 for operating parameters are not-to-exceed averaging periods. The Permittee may elect to use shorter averaging periods. For example, the Permittee may elect to use a 1-hour rolling average rather than the 12-hour rolling average specified in 40 CFR Part 63.1209(l)(1)(i) for mercury. (40 CFR 63.1209(r))

(6) Notification Requirements (40 CFR 63.1210)

(a) *Summary of Requirements* (40 CFR 63.1210(a))

(i) The Permittee shall submit the notifications listed under 40 CFR Part 63.1210(a)(1) to the Administrator. The Permittee may also be required on a case-by-case basis to submit a feedstream analysis plan under 40 CFR Part 63.1209(c)(3). (40 CFR 63.1210(a)(1))

(ii) The Permittee shall submit the notifications listed under 40 CFR Part 1210(a)(2) to the Administrator if the Permittee requests or elects to comply with alternative requirements. (40 CFR 63.1210(a)(2))

(b) *Notification of Intent to Comply (NIC).* These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b))

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1));

(I) General Information (40 CFR 63.1210(b)(1)(i));

(A) The name and address of the Permittee and the source (40 CFR 63.1210(b)(1)(i)(A));

(B) Whether the source is a major or an area source (40 CFR 63.1210(b)(1)(i)(B));

(C) Waste minimization and emission control technique(s) being considered (40 CFR 63.1210(b)(1)(i)(C));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(b) *Notification of Intent to Comply (NIC)*. These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b)) (continued)

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1)) (continued);

(I) General Information (40 CFR 63.1210(b)(1)(i)) (continued):

(D) Emission monitoring technique(s) the Permittee is considering (40 CFR 63.1210(b)(1)(i)(D));

(E) Waste minimization and emission control technique(s) effectiveness (40 CFR 63.1210(b)(1)(i)(E));

(F) A description of the evaluation criteria used or to be used to select waste minimization and/or emission control technique(s); and (40 CFR 63.1210(b)(1)(i)(F))

(G) A general description of how the Permittee intends to comply with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1210(b)(1)(i)(G))

(II) As applicable to each source, information on key activities and estimated dates for these activities that will bring the source into compliance with emission control requirements of 40 CFR Part 60 Subpart EEE. The Permittee must include all of the following key activities and dates in the Permittee's NIC (40 CFR 63.1210(b)(1)(ii)):

(A) The dates by which the Permittee anticipates the Permittee will develop engineering designs for emission control systems or process changes for emissions (40 CFR 63.1210(b)(1)(ii)(A));

(B) The date by which the Permittee anticipates the Permittee will commit internal or external resources for installing emission control systems or making process changes for emission control, or the date by which the Permittee will issue orders for the purchase of component parts to accomplish emission control or process changes. (40 CFR 63.1210(b)(1)(ii)(B));

(C) The date by which the Permittee anticipates the Permittee will submit construction applications (40 CFR 63.1210(b)(1)(ii)(C));

(D) The date by which the Permittee anticipates the Permittee will initiate on-site construction, installation of emission control equipment, or process change (40 CFR 63.1210(b)(1)(ii)(D));

(E) The date by which the Permittee anticipates the Permittee will complete on-site construction, installation of emission control equipment, or process change; and (40 CFR 63.1210(b)(1)(ii)(E))

(F) The date by which you anticipate the Permittee will achieve final compliance. The individual dates and milestones listed in 40 CFR Parts 63.1210(b)(1)(ii)(A) through (F) as part of the NIC are not requirements and therefore are not enforceable deadlines; the requirements of 40 CFR Parts 1210(b)(1)(ii)(A) through (F) must be included as part of the NIC only to inform the public of how the Permittee intends to comply with the emission standards of this 40 CFR Part 63 Subpart EEE. (40 CFR 63.1210(b)(1)(ii)(F))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(b) *Notification of Intent to Comply (NIC)*. These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b)) (continued)

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1)) (continued);

(III) A summary of the public meeting required under 40 CFR Part 63.1210(c); (40 CFR 63.1210(b)(1)(iii))

(IV) If the Permittee intends to cease burning hazardous waste prior to or on the compliance date, the requirements of 40 CFR Parts 63.1210(b)(1)(ii) and (b)(1)(iii) do not apply. The Permittee must include in the NIC a schedule of key dates for the steps to be taken to stop hazardous waste activity at your combustion unit. Key dates include the date for submittal of RCRA closure documents required under 40 CFR Part 63 Subpart G, Part 264 or Subpart G, Part 265. (40 CFR 63.1210(b)(1)(iv))

(ii) The Permittee must make a draft of the NIC available for public review no later than 30 days prior to the public meeting required under 40 CFR Part 63.1210(c)(1) or no later than 9 months after the effective date of the rule if the Permittee intends to cease burning hazardous waste prior to or on the compliance date. (40 CFR 63.1210(b)(2))

(iii) The Permittee must submit the final NIC to the Administrator (40 CFR 63.1210(b)(3));

(I) *New Units*. No later than 60 days following the informal public meeting. (40 CFR 63.1210(b)(3)(i))

(c) *NIC Public Meeting and Notice*. (40 CFR 63.1210(c))

(i) Prior to the submission of the NIC to the permitting agency and (40 CFR 63.1210(c)(1));

(I) *New Units*. No earlier than thirty (30) days following notice of the informal public meeting, the Permittee must hold at least one informal meeting with the public to discuss the anticipated activities described in the draft NIC for achieving compliance with the emission standards of 40 CFR Part 63 Subpart EEE. The Permittee must post a sign-in sheet or otherwise provide a voluntary opportunity for attendees to provide their names and addresses. (40 CFR 63.1210(c)(2))

(ii) The Permittee must submit a summary of the meeting, along with the list of attendees and their addresses developed under 40 CFR Part 63.1210(b)(1), and copies of any written comments or materials submitted at the meeting, to the Administrator as part of the final NIC, in accordance with 40 CFR Part 63.1210(b)(1)(iii) (40 CFR 63.1210(c)(2));

(iii) The Permittee must provide public notice of the NIC meeting at least 30 days prior to the meeting and the Permittee must maintain, and provide to the Administrator upon request, documentation of the notice. The Permittee must provide public notice in all of the forms listed under 40 CFR Parts 63.1210(c)(3)(i) through (iv). (40 CFR 63.1210(c)(3))

(iv) The Permittee must include all of the parameters listed under 40 CFR Parts 63.1210(c)(4)(i) through (iv) in the notices required under 40 CFR Part 63.1210(c)(3). (40 CFR 63.1210(c)(4))

(v) The requirements of 40 CFR Part 63.1210(c) do not apply to sources that intend to cease burning hazardous waste prior to or on the compliance date. (40 CFR 63.1210(c)(5))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(d) Notification of Compliance. (40 CFR 63.1210(d))

(i) The Notification of Compliance status requirements of 40 CFR Part 63.9(h) apply, except that (40 CFR 63.1210(d)(1)):

(I) The notification is a Notification of Compliance, rather than compliance status (40 CFR 63.1210(d)(1)(i));

(II) The notification is required for the initial comprehensive performance test and each subsequent comprehensive and confirmatory performance test; and (40 CFR 63.1210(d)(1)(ii))

(III) The Permittee must postmark the notification before the close of business on the 90th day following completion of relevant compliance demonstration activity specified in 40 CFR Part 63 Subpart EEE rather than the 60th day as required by 40 CFR Part 63.9(h)(2)(ii). (40 CFR 63.1210(d)(1)(iii))

(ii) Upon postmark of the Notification of Compliance, the operating parameter limits identified in the Notification of Compliance, as applicable, shall be complied with, the limits identified in the Documentation of Compliance or a previous Notification of Compliance are no longer applicable. (40 CFR 63.1210(d)(2))

(iii) The Notification of Compliance requirements of 40 CFR Part 63.1207(j) also apply. (40 CFR 63.1210(d)(3))

(7) Recordkeeping and Reporting Requirements (40 CFR 63.1211)

(a) Summary of Reporting Requirements. The Permittee shall submit the reports listed under 40 CFR Part 63.1211(a) to the Administrator. (40 CFR 63.1211(a))

(b) Summary of Recordkeeping Requirements. The Permittee shall retain the document, data, or information listed under 40 CFR Part 1211(b) in the operating record. (40 CFR 63.1211(b))

(c) Documentation and Compliance. (40 CFR 63.1211(c))

(i) By the compliance date, the Permittee must develop and include in the operating record a Documentation of Compliance. The Permittee is not subject to this requirement, however, if the Permittee submits a Notification of Compliance under 40 CFR Part 63.1207(j) prior to the compliance date. Upon inclusion of the Documentation of Compliance in the operating record, hazardous waste burning incinerators, cement kilns, and lightweight aggregate kilns regulated under the interim standards of 40 CFR Parts 63.1203, 63.1204, and 63.1205 are no longer subject to compliance with the previously applicable Notification of Compliance. (40 CFR 63.1211(c)(1))

(ii) The Documentation of Compliance must identify the applicable emission standards under 40 CFR Part 63 Subpart EEE and the limits on the operating parameters under 40 CFR Part 63.1209 that will ensure compliance with those emission standards. (40 CFR 63.1211(c)(2))

(iii) The Permittee must include a signed and dated certification in the Documentation of Compliance that (40 CFR 63.1211(c)(3)):

(I) Required CEMs and CMS are installed, calibrated, and continuously operating in compliance with the requirements of this subpart; and (40 CFR 63.1211(c)(3)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(7) Recordkeeping and Reporting Requirements (40 CFR 63.1211) (continued)

(c) Documentation and Compliance. (40 CFR 63.1211(c)) (continued)

(iii) The Permittee must include a signed and dated certification in the Documentation of Compliance that (40 CFR 63.1211(c)(3)) (continued):

(II) Based on an engineering evaluation prepared under the Permittee's direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information and supporting documentation, and considering at a minimum the design, operation, and maintenance characteristics of the combustor and emissions control equipment, the types, quantities, and characteristics of feedstreams, and available emissions data (40 CFR 63.1211(c)(3)(i)):

(A) The Permittee is in compliance with the emission standards of 40 CFR Part 63 Subpart EEE; and (40 CFR 63.1211(c)(3)(i)(A))

(B) The limits on the operating parameters under 40 CFR Part 63.1209 ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1211(c)(3)(i)(B))

(iv) The Permittee must comply with the emission standards and operating parameter limits specified in the Documentation of Compliance. (40 CFR 63.1211(c)(4))

(d) Data Compression. The Permittee may submit a written request to the Administrator for approval to use data compression techniques to record data from CMS, including CEMS, on a frequency less than that required by 40 CFR Part 63.1209. The Permittee must submit the request for review and approval as part of the comprehensive performance test plan. (40 CFR 63.1211(d))

(i) The Permittee must record a data value at least once each ten minutes. (40 CFR 63.1211(d)(1))

(ii) For each CEMS or operating parameter for which the Permittee requests to use data compression techniques, the Permittee must recommend (40 CFR 63.1211(d)(2)):

(I) A fluctuation limit that defines the maximum permissible deviation of a new data value from a previously generated value without requiring the Permittee to revert to recording each one-minute value. (40 CFR 63.1211(d)(2)(i))

(A) If the Permittee exceeds a fluctuation limit, the Permittee must record each one-minute value for a period of time not less than ten minutes. (40 CFR 63.1211(d)(2)(i)(A))

(B) If neither the fluctuation limit nor the data compression limit are exceeded during that period of time, the Permittee may reinitiate recording data values on a frequency of at least once each ten minutes; and (40 CFR 63.1211(d)(2)(i)(B))

(II) A data compression limit defined as the closest level to an operating parameter limit or emission standard at which reduced data recording is allowed. (40 CFR 63.1211(d)(2)(ii))

(A) Within this level and the operating parameter limit or emission standard, the Permittee must record each one-minute average. (40 CFR 63.1211(d)(2)(ii)(A))

(B) The data compression limit should reflect a level at which the Permittee is unlikely to exceed the specific operating parameter limit or emission standard, considering its averaging period, with the addition of a new one-minute average. (40 CFR 63.1211(d)(2)(ii)(B))

(8) Other Requirements Pertaining to the NIC (40 CFR 63.1212)

The Permittee shall follow the other requirements pertaining to the NIC under 40 CFR Part 63.1212 as applicable. (40 CFR 63.1212)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(9) Replacement Standards for Hazardous Waste Incinerators (40 CFR 63.1219)

(a) *Emission Limits for New Sources.* The Permittee shall not discharge or cause combustion gases to be emitted into the atmosphere that contain (40 CFR 63.1219(b)):

(i) For Dioxins and Furans (40 CFR 63.1219(b)(1)):

(I) Dioxins and furans in excess of 0.20 ng TEQ/dscm corrected to 7 percent oxygen for sources not equipped with either a waste heat boiler or dry air pollution control system (40 CFR 63.1219(b)(1)(ii));

(II) A source equipped with a wet air pollution control system followed by a dry air pollution control system is not considered to be a dry air pollution control system, and a source equipped with a dry air pollution control system followed by a wet air pollution control system is considered to be a dry air pollution control system for purposes of this standard (40 CFR 63.1219(b)(1)(iii));

(ii) Mercury in excess of 8.1 µgm/dscm, corrected to 7 percent oxygen (40 CFR 63.1219(b)(2));

(iii) Cadmium and lead in excess of 10 µgm/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1219(b)(3));

(iv) Arsenic, beryllium, and chromium in excess of 23 µgm/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1219(b)(4));

(v) Carbon monoxide in excess of 100 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. If the Permittee elects to comply with this carbon monoxide standard rather than the hydrocarbon standard under 40 CFR Part 63.1219(b)(5)(ii), the Permittee must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by 40 CFR Part 63.1206(b)(7), hydrocarbons do not exceed 10 parts per million by volume during those runs, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane; or (40 CFR 63.1219(b)(5)(i))

(vi) Hydrogen chloride and chlorine gas in excess of 21 parts per million by volume, combined emissions, expressed as a chloride (Cl⁻) equivalent, dry basis and corrected to 7 percent oxygen; and (40 CFR 63.1219(b)(6))

(vii) Except as provided by 40 CFR Part 63.1219(e), particulate matter emissions in excess of 0.0016 gr/dscf corrected to 7 percent oxygen. (40 CFR 63.1219(b)(7))

(b) *Destruction and Removal Efficiency (DRE) Standard* (40 CFR 63.1219(c))

(i) *99.99% DRE.* Except as provided in 40 CFR Part 63.1219(c)(2), the Permittee must achieve a destruction and removal efficiency (DRE) of 99.99% for each principle organic hazardous constituent (POHC) designated under 40 CFR Part 63.1219(c)(3). The Permittee must calculate DRE for each POHC from the following equation (40 CFR 63.1219(c)(1)):

$$DRE = [1 - (W_{out} / W_{in})] \times 100\%$$

Where

W_{in} = mass feedrate of one POHC in a waste feedstream; and

W_{out} = mass emission rate of the same POHC present in exhaust emissions prior to release to the atmosphere.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

W. Emission Unit S2.043 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(9) Replacement Standards for Hazardous Waste Incinerators (40 CFR 63.1219) (continued)

(b) Destruction and Removal Efficiency (DRE) Standard (40 CFR 63.1219(c)) (continued)

(ii) **99.9999% DRE.** If the Permittee burns the dioxin-listed hazardous wastes F020, F021, F022, F023, F026, or F027 (see 40 CFR Part 261.31), the Permittee must achieve a DRE of 99.9999% for each POHC that you designate under 40 CFR Part 63.1219(c)(3). The Permittee must demonstrate this DRE performance on POHCs that are more difficult to incinerate than tetra-, penta-, and hexachlorodibenzo-p-dioxins and dibenzofurans. The Permittee must use the equation in 40 CFR Part 63.1219(c)(1) to calculate DRE for each POHC. In addition, the Permittee must notify the Administrator of your intent to incinerate hazardous wastes F020, F021, F022, F023, F026, or F027. (40 CFR 63.1219(c)(2))

(iii) Principal Organic Hazardous Constituent (POHC). (40 CFR 63.1219(c)(3))

(I) The Permittee must treat each POHC in the waste feed that the Permittee specifies under 40 CFR Part 63.1219(c)(3)(ii) to the extent required by 40 CFR Parts 63.1219(c)(1) and (c)(2). (40 CFR 63.1219(c)(3)(i))

(II) The Permittee must specify one or more POHCs that are representative of the most difficult to destroy organic compounds in your hazardous waste feedstream. The Permittee must base this specification on the degree of difficulty of incineration of the organic constituents in the hazardous waste and on their concentration or mass in the hazardous waste feed, considering the results of hazardous waste analyses or other data and information. (40 CFR 63.1219(c)(3)(ii))

(c) Significant Figures. The emission limits provided by 40 CFR Parts 63.1219(a) and (b) are presented with two significant figures. Although the Permittee must perform intermediate calculations using at least three significant figures, the Permittee may round the resultant emission levels to two significant figures to document compliance. (40 CFR 63.1219(d))

(d) Alternative to the Particulate Matter Standard (40 CFR 63.1219(e))

(i) General. In lieu of complying with the particulate matter standards of this section, the Permittee may elect to comply with the following alternative metal emission control requirement (40 CFR 63.1219(e)(1)):

(ii) Alternative Metal Emission Control Requirements for New Incinerators. (40 CFR 63.1219(e)(3))

(I) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain cadmium, lead, and selenium in excess of 10 µgm/dscm, combined emissions, corrected to 7 percent oxygen; and, (40 CFR 63.1219(e)(3)(i))

(II) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain antimony, arsenic, beryllium, chromium, cobalt, manganese, and nickel in excess of 23 µgm/dscm, combined emissions, corrected to 7 percent oxygen. (40 CFR 63.1219(e)(3)(ii))

(iii) Operating Limits. Semivolatile and low volatile metal operating parameter limits must be established to ensure compliance with the alternative emission limitations described in 40 CFR Parts 63.1219(e)(2) and (e)(3) pursuant to 40 CFR Part 63.1209(n), except that semivolatile metal feedrate limits apply to lead, cadmium, and selenium, combined, and low volatile metal feedrate limits apply to arsenic, beryllium, chromium, antimony, cobalt, manganese, and nickel, combined. (40 CFR 63.1219(e)(4))

b. Continuous Emissions Monitoring System (CEMS) – 40 CFR Parts 60

The Permittee, upon issuance of this operating permit, shall comply with the CEMS requirements set forth in **Section V** of this operating permit.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****X. Emission Unit S2.044**

System 27 – Hot Decontamination System		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.044	Hot Decontamination System, Building 117-16	4,273,479	355,987

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.044** shall be controlled by a **Thermal Oxidizer (TO-001)**.
 - b. Descriptive Stack Parameters
Stack Height: 50.0 feet
Stack Diameter: 2.42 feet
Stack Temperature: 728.0 °F
Exhaust Flow: 10,294.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.044** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.044** shall not exceed **80.0 gallons** per hour, averaged over a calendar day, nor more than **480,000.0 gallons** per 12-month rolling period. The sulfur content shall not exceed **0.0015 percent**.
 - c. The maximum allowable throughput rate for **S2.044** shall not exceed **0.0025 tons** of **energetic residue** per hour averaged over a calendar day, nor more than **15.0 tons** per 12-month rolling period.
 - d. Hours
 - (1) **S2.044** may operate a total of **24 hours** per day.
 - (2) **S2.044** may operate a total of **6,000 hours** per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.044** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.26 pounds** per hour, nor more than **0.79 tons** per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.26 pounds** per hour, nor more than **0.79 tons** per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.26 pounds** per hour, nor more than **0.79 tons** per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.82 pounds** per hour, nor more than **2.46 tons** per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **3.10 pounds** per hour, nor more than **9.30 tons** per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.40 pounds** per hour, nor more than **1.20 tons** per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.12 pounds** per hour, nor more than **0.36 tons** per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.044** shall not equal or exceed **20 percent**.
 - i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.044** shall not exceed **0.58 pounds** per MMBtu.
 - j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.044** shall not exceed **7.84 pounds** per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

X. Emission Unit S2.044 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.044** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the throughput of **energetic residual** for **S2.044** for each calendar day.
- e. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- f. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
- g. Monitor and record each batch or charge weight rate of **energetic residual** processed for each calendar day when **S2.044** is in operation.
- h. Monitor and record the hours of operation for **S2.044** for each calendar day.
- i. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- j. Monitor and record continuously the temperature of the **Thermal Oxidizer (TO-001)** while **S2.044** is operating.
- k. Conduct and record an observation of visible emissions (excluding water vapor) on the **Thermal Oxidizer (TO-001)** controlling **S2.044** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- l. Inspect the **Thermal Oxidizer (TO-001)** installed on **S2.044** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the thermal oxidizer), and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, (NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

X. Emission Unit S2.044 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, (NAC 445B.252(1)) (continued)

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following (continued):

- f. Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
- g. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- h. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- i. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- j. Method 12 in Appendix A of 40 CFR Part 60 shall be used to determine the lead concentration. Each test will be run for a minimum of one hour.
- k. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****Y. Emission Units F1.001 through F1.020**

System 28 – Old Bomb Facility		Location UTM (Zone 11, NAD 83)	
		m North	m East
F1.001	Open Burn Pan #1	4,255,987	363,321
F1.002	Open Burn Pan #2	4,255,987	363,321
F1.003	Open Burn Pan #3	4,255,987	363,321
F1.004	Open Burn Pan #4	4,255,987	363,321
F1.005	Open Burn Pan #5	4,255,987	363,321
F1.006	Open Burn Pan #6	4,255,987	363,321
F1.007	Open Burn Pan #7	4,255,987	363,321
F1.008	Open Burn Pan #8	4,255,987	363,321
F1.009	Open Burn Pan #9	4,255,987	363,321
F1.010	Open Burn Pan #10	4,255,987	363,321
F1.011	Open Burn Pan #11	4,255,987	363,321
F1.012	Open Burn Pan #12	4,255,987	363,321
F1.013	Open Burn Pan #13	4,255,987	363,321
F1.014	Open Burn Pan #14	4,255,987	363,321
F1.015	Open Burn Pan #15	4,255,987	363,321
F1.016	Open Burn Pan #16	4,255,987	363,321
F1.017	Open Burn Pan #17	4,255,987	363,321
F1.018	Open Burn Pan #18	4,255,987	363,321
F1.019	Open Burn Pan #19	4,255,987	363,321
F1.020	Open Burn Pan #20	4,255,987	363,321

1. Air Pollution Control Equipment (NAC 445B.3405)
F1.001 through F1.020, each, have no add-on controls.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable Net Explosive Weight (NEW) of **Munition/Propellant** items to be burned in **F1.001 through F1.020** shall not exceed the following:
 - (1) **1,000** pounds per open burn, each.
 - (2) **20,000** pounds per day, combined.
 - (3) **3,900,000** pounds per calendar year, combined.
 - b. The maximum allowable number of open burns in **F1.001 through F1.020**, combined, shall not exceed **20** per calendar day.
 - c. Hours
 - (1) **F1.001 through F1.020** may be utilized for open burns for a total of **24** hours per day.
 - (2) **F1.001 through F1.020** may be utilized for open burns for a total of **195** hours per year.
 - (3) **F1.001 through F1.020** may be utilized for open burns from **9:00 AM** to **30** minutes before sunset.
 - d. Open burning shall occur only during times when the wind speed is between **3** and **20** miles per hour.
 - e. Open burning shall be prohibited:
 - (1) When the cloud cover is greater than **80 percent** and the cloud ceiling is less than **2,000** feet above ground level.
 - (2) When visibility is less than one mile.
 - (3) During precipitation events, electrical storms or thunderstorms, or days when the chance of precipitation, electrical storms, or thunderstorms exceeds **50 percent** based on the current daily weather report from a Department of Defense weather station or National Weather Station office.
 - f. **Munition/Propellant** items to be burned in **F1.001 through F1.020** shall be limited to those items which cannot be processed through the Western Demilitarization Facility (WADF).
 - g. **Munition/Propellant** items to be burned in **F1.001 through F1.020** shall be limited to only those items which are approved under the provisions of the Hazardous Waste Permit **NEVHW0032**.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Y. Emission Units F1.001 through F1.020 (continued)

2. Operating Parameters (NAC 445B.3405) (continued)

- h. **Munition/Propellant** to be burned in **F1.001 through F1.020** shall be limited to those that meet at least one of the following criteria:
 - (1) Those items in Stability Category D (the level of Remaining Effective Stabilizer (RES) is less than 0.20 percent of the item mass), or
 - (2) Propellant lots determined by the HWAD to have an unknown storage history and considered unsafe or unstable because of exposure to environmental conditions such as extreme heat and moisture, or
 - (3) Propellant lots determined by the HWAD to have an assigned lot number designation of “none”, or “unknown”, “mixed”, or with a locally assigned lot number for which stability data cannot be obtained, or
 - (4) Propellant lots that have been dropped from the Propellant Stability Monitoring Program as a result of being designated for demilitarization by Operation Support Command’s Propellant Manager, or
 - (5) All propellants removed from mortar rounds due to a history of autoignition incidents.
- i. The following items shall not be burned in **F1.001 through F1.020**:
 - (1) Waste that is not approved pursuant to Hazardous Waste Permit **NEVHW0032**.
 - (2) Non-propellant or non-energetic wastes, with the exception of incidental munitions contains and casings that cannot be separated any further prior to open burning due to safety hazards.
 - (3) Chemical, biological, or radiological weapons.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **F1.001 through F1.020** the following pollutants in excess of the following specified limits:

- a. The discharge of **HAPs** (hazardous air pollutants) to the atmosphere shall not exceed the emissions limitations specified in Section **VI** Emissions Cap of this operating permit.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

- a. The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - (1) Monitor and record the **Munition/Propellant** items burned and the total number of burns conducted for each open burn day.
 - (2) Monitor and record the NEW of **Munition/Propellant** items burned (in pounds) for **F1.001 through F1.020**, each, for each open burn day.
 - (3) Monitor and record the NEW of **Munition/Propellant** items burned (in pounds) for **F1.001 through F1.020**, combined, for each open burn day.
 - (4) Monitor and record the NEW of **Munition/Propellant** items burned (in pounds) for **F1.001 through F1.020**, combined, per calendar year.
 - (5) Monitor and record the open burn hours for **F1.002 through F1.020**, each, for each open burn day.
 - (6) Record the total yearly open burn hours per year. The annual open burn hours shall be determined at the end of each month as the sum of the monthly burn hours for all previous months of that year.
- b. The Permittee, upon the issuance of this operating permit, shall utilize the Munitions Items Disposition Action System (MIDAS) or military munitions manufacturer specifications, to determine and record the following information for each **Munition/Propellant** item to be burned on a daily basis:
 - (1) Munition’s name and nomenclature.
 - (2) National Stock Number (NSN).
 - (3) Department of Defense Identification Code (DODIC).
 - (4) Pyrotechnic, explosive and propellant formulations, and weights.
 - (5) Casing components and weights (if present).



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Y. Emission Units F1.001 through F1.020 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

- c. The Permittee, upon the issuance of this operating permit, shall prepare and maintain on-site records indicating why **Munition/Propellant** item must be open burned as opposed to other disposal/treatment/recycling methods. A report summarizing these records shall be updated on or before March 15th of each calendar year.
- d. The Permittee, upon the issuance of this operating, shall monitor and record the following:
 - (1) Ambient Meteorological Conditions
 - (a) Horizontal wind speed, horizontal wind direction and ambient dry bulb temperature at the time and day of each open burn.
 - (b) Percent cloud cover and cloud ceiling (in feet) at the time and day of each open burn.
 - (c) Visibility distance at the time and day of each open burn.
 - (d) Current weather report at the time and day of each open burn.
 - (2) Operational Information
 - (a) Date and time of each open burn.
 - (b) NEW of **Munition/Propellant** items burned in **F1.001 through F1.020**, each, on a daily basis.
 - (c) Combined NEW of **Munition/Propellant** items burned in **F1.001 through F1.020**, combined, on a daily basis.
 - (d) Combined NEW of **Munition/Propellant** items burned in **F1.001 through F1.020**, combined, on a monthly basis.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****Z. Emission Units S2.046 and S2.047**

System 30 – Munitions Detonation Rotary Kiln (MDRK) and Metal Feeding/Recycling System (RF-9)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.046	MDRK and Metal Feeding/Recycling System	4,273,287	355,972
S2.047	Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr)	4,273,287	355,972

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.046 and S2.047**, combined, shall be controlled by the following air pollution control equipment:
 - (1) Primary Combustion Chamber
 - (2) Evaporative Cooler
 - (3) Calcium Hydroxide (CA(OH)₂) Lime Adsorption
 - (4) Baghouse
 - b. Descriptive Stack Parameters
Stack Height: 45.0 feet
Stack Diameter: 1.67 feet
Stack Temperature: 350.0 °F
Exhaust Flow: 3,705.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.046 and S2.047**, each, may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.046 and S2.047**, combined, shall not exceed **88.1 gallons** per hour, averaged over a calendar day, nor more than **410,546.0 gallons** per 12-month rolling period.
 - c. The maximum allowable throughput rate for **S2.046 and S2.047**, each, shall not exceed **0.12 tons of propellant explosives pyrotechnics (PEP)** per hour, averaged over a calendar day, nor more than **559.2 tons** per 12-month rolling period.
 - d. The maximum allowable throughput rate for **S2.046** shall not exceed **2.50 tons of dry refuse** per hour, averaged over a calendar day, nor more than **11,650.0 tons** per 12-month rolling period.
 - e. The maximum allowable feed rate of **ash (particulate matter)** for **S2.046 and S2.047**, each, shall not exceed **51.65 pounds** per hour, averaged over a calendar day, based on the Compliance Performance Test conducted in February 2008.
 - f. The maximum allowable feed rate of **semi-volatile metals (lead and cadmium)** for **S2.046 and S2.047**, each, shall not exceed **6.53 pounds** per hour, averaged over a calendar day, based on the Compliance Performance Test conducted in February 2008.
 - g. The maximum allowable feed rate of **low-volatile metals (arsenic, beryllium, chromium)** for **S2.046 and S2.047**, each, shall not exceed **0.115 pounds** per hour, averaged over a calendar day, based on the Compliance Performance Test conducted in February 2008.
 - h. The maximum allowable feed rate of **mercury** for **S2.046 and S2.047**, each, shall not exceed **0.00069 pounds** per hour, averaged over a calendar day, based on the Compliance Performance Test conducted in February 2008.
 - i. Hours
 - (1) **S2.046 and S2.047**, each, may operate a total of **24 hours** per day.
 - (2) **S2.046 and S2.047**, each, may operate a total of **4,660 hours** per year.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.046 and S2.047**, combined, the following pollutants in excess of the following specified limits:

- a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.19** pounds per hour, nor more than **0.45** tons per 12-month rolling period.
- b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.39** pounds per hour, nor more than **0.90** tons per 12-month rolling period.
- c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.39** pounds per hour, nor more than **0.90** tons per 12-month rolling period.
- d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **17.1** pounds per hour, nor more than **39.8** tons per 12-month rolling period.
- e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **47.3** pounds per hour, nor more than **110.3** tons per 12-month rolling period.
- f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.76** pounds per hour, nor more than **1.76** tons per 12-month rolling period.
- g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.12** pounds per hour, nor more than **0.28** tons per 12-month rolling period.
- h. NAC 445B.22017 – The opacity from the **S2.046 and S2.047**, combined, shall not equal or exceed **20** percent.
- i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from the final exhaust stack of **S2.046 and S2.047**, combined, shall not exceed **0.57** pounds per MMBtu.
- j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.046 and S2.047**, combined, shall not exceed **8.63** pounds per hour.
- k. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.046 and S2.047**, combined, shall not exceed **0.99** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.046 and S2.047**, each, (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the throughput of **PEP** for **S2.046 and S2.047**, each, for each calendar day.
- e. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- f. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
- g. Monitor and record each batch or charge weight rate (in **tons**) of **PEP** processed per hour, for each calendar day.
- h. Monitor and record each batch or charge weight rate (in **tons**) of **dry refuse** containing **PEP** processed per hour, for each calendar day.
- i. Monitoring and record the feed rates (in **pounds**) processed in **S2.046 and S2.047**, each, of **ash (particulate matter)**, **semi-volatile metals (lead and cadmium)**, **low-volatile metals (arsenic, beryllium, chromium)**, and **mercury** per hour, for each calendar day, based on the characterization of the feedstream processed.
- j. Monitor and record the hours of operation for **S2.046 and S2.047**, each, for each calendar day.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- k. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- l. Monitor and record the type of feedstream processed in **S2.046** on daily basis as characterized by the Munitions Item Disposition Action System (MIDAS) database.
- m. Monitor and record the temperature (in °F) of the **Primary Combustion Chamber** for **S2.047** at least once every 60 seconds.
- n. Continuously monitor and record the **Primary Combustion Chamber** pressure (in **inches of water**) for **S2.047**.
- o. Monitor and record the pressure drop (in **inches of water**) across the **Baghouse** on an hourly rolling average.
- p. Continuously monitor and record the inlet temperature (in °F) of the **Baghouse** on an hourly rolling average.
- q. The Permittee shall use the MIDAS database to characterize the chemical composition in order to establish a feed rate for the ordnance item to be treated. The established feed rate for each ordnance item to be treated will be stored in a database on the RF-9 control computer identified by a National Stock Number (NSN).
- r. The Permittee shall calculate feed rates based on the following formula:

$$\text{Maximum Item Feed Rate (lbs/hr)} = \frac{\text{Pollutant Feed Rate Limit (lbs/hr)} \times \text{Weight of the Item (lb)}}{\text{Weight of Pollutant in the Item (lb)}}$$

Pollutant feed rates are limited to those amounts that have been demonstrated to meet the emission limits in **Z.3.** of this section through testing. Maximum pollutant feed rates have been established during the Compliance Performance Test conducted in February 2008 and documented in the Compliance Performance Test report. The weight of the pollutant in each item is determined using the MIDAS database.

- s. The Permittee will input the ordnance NSN into the RF-9 control computer which will set the established feed limits (recipe) in the Feed Rate Control System (FRCS). The RF-9 FRCS will assure this feed rate is not exceeded by monitoring the cycle time and weight of each load dumped into the furnace. If the maximum pound per hour rate is exceeded, the belt will automatically shut down.
- t. The Permittee shall notify the Director of any munition items processed by the MDRK emitting any pollutants currently not identified in the MIDAS database. This database must track all criteria pollutants, hazardous air pollutants or any organic compound listed in 40 CFR Part 261 Appendix VIII.
- u. *Primary Combustion Chamber:*
 - (1) The minimum temperature of the **Primary Combustion Chamber** is **1,646 °F** (based on the Compliance Performance Test conducted in February 2008). During operations, the temperature of the **Primary Combustion Chamber** shall be monitored with a temperature monitoring device with a temperature recorder that must record the operating temperature at least every 60 seconds, as required in the definition of the continuous monitor. The temperature monitoring device equipped with a recorder shall be installed, calibrated, operated, and maintained according to manufacturer specifications.
 - (2) The maximum combustion chamber pressure of the **Primary Combustion Chamber** is minus **0.1 inches** of water gauge, (based on the Compliance Performance Test conducted in February 2008). During operations, the **Primary Combustion Chamber** pressure shall be monitored with a pressure monitoring device with a recorder that must record the operating pressure instantaneously. The pressure monitoring device equipped with a recorder shall be installed, calibrated, operated, and maintained according to manufacture specifications.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

u. Primary Combustion Chamber (continued):

- (3) During operations, the Permittee shall comply with the requirements for combustion system leaks under 40 CFR Part 63.1206(c)(5) by maintaining the maximum combustion chamber zone pressure lower than ambient pressure. The Permittee shall monitor the pressure instantaneously and the automatic waste feed cutoff system must be engaged when negative pressure is not maintained at any time.

v. For the Calcium Hydroxide (Ca(OH)₂) Lime Adsorption:

- (1) The minimum lime sorbent feed rate is based on the Compliance Performance Test conducted in February 2008. The minimum lime sorbent feed rate is determined from the total chlorine/chloride content of the item to be processed. The total chlorine/chloride content of each processed round is determined from the MIDAS database. The minimum lime sorbent feed rate is tiered and is based on the chlorine/chloride content of each processed round multiplied by the item feed rate for the item being processed, not to exceed **72.0** lbs/hr sorbent lime and **3.0** lbs/hr total chlorine/chloride feed rate. The lime sorbent feed rate will be **0.0** lbs/hr when the total chlorine/chloride content is **0.0** lbs/hr. The lime sorbent feed rate will be **24.0** lbs/hr when the total chlorine/chloride content is greater than **0.0** lbs/hr and up to **1.0** lbs/hr. The lime sorbent feed rate will be **48.0** lbs/hr when the total chlorine/chloride content is greater than **1.0** lbs/hr and up to **2.0** lbs/hr. The lime sorbent feed rate will be **72.0** lbs/hr when the total chlorine/chloride content is greater than **2.0** lbs/hr and up to **3.0** lbs/hr.
- (2) Compliance with the lime sorbent feed rate and total chloride/chlorine feed rate is demonstrated by showing compliance with the **dry refuse** containing **PEP** feed limit (as permitted in **Z.2.e.** in this section), which is recorded in the Data Acquisition System (DAS). The calculated feed rates for the lime sorbent and total chlorine/chloride (from MIDAS database) are loaded into a recipe and monitored by the Waste Feed Monitoring System to insure the feed limit is never exceeded. If the load is greater than the recipe limit, the waste feed monitor will not feed items until the load is reduced below the recipe limit.
- (3) The Permittee may substitute at any time a different brand or type of sorbent provided that the replacement has equivalent or improved properties compared to the sorbent used in the Comprehensive Performance Test and conforms to the key sorbent parameters the Permittee identified under 40 CFR Part 63.1209(o)(4)(iii)(A). The Permittee must record in the operating record documentation that the substitute sorbent will provide the same level of control as the original sorbent.

w. For the Baghouse:

- (1) The minimum pressure drop and maximum pressure drop across each baghouse cell, based on manufacturer's specifications, shall be **3.0** inches and **7.0** inches of water gauge, respectively, and shall comply with the limit on an hourly rolling average.
- (2) The maximum temperature at the inlet to the Baghouse is **400** °F.
- (3) Measure and record values for the pressure drops and inlet temperatures using a recording device with a continuous monitor.
- (4) Inspect the baghouse installed on **S2.046** and **S2.047** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.L. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.
- f. Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
- g. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- h. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- i. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- j. Method 12 in Appendix A of 40 CFR Part 60 shall be used to determine the lead concentration. Each test will be run for a minimum of one hour.
- k. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200)

(1) Interim Emissions Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns (40 CFR 63.1203)

The Permittee shall meet the following standards until compliance with the standards under 40 CFR Part 63.1219 are met. (40 CFR 63.1203)

(a) *Emission Limits for Existing Sources.* The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain: (40 CFR 63.1203(a)):

(i) For dioxins and furans (40 CFR 63.1203(a)(1)):

(I) Emissions in excess of 0.20 ng TEQ/dscm corrected to 7 percent oxygen; or (40 CFR 63.1203(a)(1)(i))

(II) Emissions in excess of 0.40 ng TEQ/dscm corrected to 7 percent oxygen provided that the combustion gas temperature at the inlet to the initial particulate matter control device is 400 °F or lower based on the average of the test run average temperatures. (For purposes of compliance, operation of a wet particulate control device is presumed to meet the 400 °F or lower requirement) (40 CFR 63.1203(a)(1)(ii));

(ii) Mercury in excess of 130 µg/dscm corrected to 7 percent oxygen (40 CFR 63.1203(a)(2));

(iii) Lead and cadmium in excess of 240 µg/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1203(a)(3));

(iv) Arsenic, beryllium, and chromium in excess of 97 µg/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1203(a)(4));

(v) For carbon monoxide and hydrocarbons, either (40 CFR 63.1203(a)(5)):

(i) Carbon monoxide in excess of 100 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. If the Permittee elects to comply with this carbon monoxide standard rather than the hydrocarbon standard under 40 CFR Part 63.1203(a)(5)(ii), the Permittee must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by 40 CFR Part 63.1206(b)(7), hydrocarbons do not exceed 10 parts per million by volume during those runs, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane; or (40 CFR 63.1203(a)(5)(i))

(ii) Hydrocarbons in excess of 10 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane (40 CFR 63.1203(a)(5)(ii));

(vi) Hydrochloric acid and chlorine gas in excess of 77 parts per million by volume, combined emissions, expressed as hydrochloric acid equivalents, dry basis and corrected to 7 percent oxygen; and (40 CFR 63.1203(a)(6))

(vii) Particulate matter in excess of 34 mg/dscm corrected to 7 percent oxygen. (40 CFR 63.1203(a)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(1) Interim Emissions Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns (40 CFR 63.1203) (continued)

The Permittee shall meet the following standards until compliance with the standards under 40 CFR Part 63.1219 are met. (40 CFR 63.1203) (continued)

(b) *Destruction and Removal Efficiency (DRE) Standard.* (40 CFR 63.1203(c))

- (i) *99.99% DRE.* Except as provided in 40 CFR Part 63.1203(c)(2), the Permittee must achieve a destruction and removal efficiency (DRE) of 99.99% for each principle organic hazardous constituent (POHC) designated under 40 CFR Part 63.1203(c)(3). The Permittee must calculate DRE for each POHC from the following equation (40 CFR 63.1203(c)(1)):

$$DRE = [1 - (W_{out}/W_{in})] \times 100\%$$

Where:

W_{in} = mass feedrate of one principal organic hazardous constituent (POHC) in waste feedstream; and

W_{out} = mass emission rate of the same POHC present in exhaust emissions prior to release to the atmosphere.

- (ii) *99.9999% DRE.* If the Permittee burns the dioxin-listed hazardous wastes F020, F021, F022, F023, F026, or F027 (see 40 CFR Part 261.31), the Permittee must achieve a destruction and removal efficiency (DRE) of 99.9999% for each principle organic hazardous constituent (POHC) that the Permittee designates under 40 CFR Part 63.1203(c)(3). The Permittee must demonstrate this DRE performance on POHCs that are more difficult to incinerate than tetra-, penta-, and hexachlorodibenzo-p-dioxins and dibenzofurans. The Permittee must use the equation in 40 CFR Part 63.1203(c)(1) to calculate DRE for each POHC. In addition, the Permittee must notify the Administrator of the intent to incinerate hazardous wastes F020, F021, F022, F023, F026, or F027. (40 CFR 63.1203(c)(2))

(iii) *Principal Organic Hazardous Constituents (POHCs).* (40 CFR 63.1203(c)(3))

- (I) The Permittee must treat the Principal Organic Hazardous Constituents (POHCs) in the waste feed that you specify under 40 CFR Part 63.1203(c)(3)(ii) to the extent required by 40 CFR Parts 63.1203(c)(1) and (c)(2). (40 CFR 63.1203(c)(3)(i))
- (II) The Permittee must specify one or more POHCs that are representative of the most difficult to destroy organic compounds in your hazardous waste feedstream. The Permittee must base this specification on the degree of difficulty of incineration of the organic constituents in the hazardous waste and on their concentration or mass in the hazardous waste feed, considering the results of hazardous waste analyses or other data and information. (40 CFR 63.1203(c)(3)(ii))
- (c) *Significant Figures.* The emission limits provided by 40 CFR Parts 63.1203(a) and (b) are presented with two significant figures. Although the Permittee must perform intermediate calculations using at least three significant figures, the Permittee may round the resultant emission levels to two significant figures to document compliance. (40 CFR 63.1203(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(1) Interim Emissions Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns (40 CFR 63.1203) (continued)

The Permittee shall meet the following standards until compliance with the standards under 40 CFR Part 63.1219 are met. (40 CFR 63.1203) (continued)

(d) The provisions of this section no longer apply after any of the following dates, whichever occurs first (40 CFR 63.1203(e)):

- (i) The date that the source begins to comply with 40 CFR Part 63.1219 by placing a Documentation of Compliance in the operating record pursuant to 40 CFR Part 63.1211(c) (40 CFR 63.1203(e)(1));
- (ii) The date that the source begins to comply with 40 CFR Part 63.1219 by submitting a Notification of Compliance pursuant to 40 CFR Part 63.1210(b) (40 CFR 63.1203(e)(2)); or
- (iii) The date for the source to comply with 40 CFR Part 63.1219 pursuant to 40 CFR Part 63.1206 and any extensions granted there under. (40 CFR 63.1203(e)(3))

(2) Monitoring and Compliance Provisions (40 CFR 63.1206)

(a) Compliance Dates. (40 CFR 63.1206(a))

(i) Compliance date for standards under 40 CFR Part 63.1203. (40 CFR 63.1206(a)(1)(i))

(I) Compliance Dates for New or Reconstructed Sources. (40 CFR 63.1206(a)(1)(i)(B))

(A) If the Permittee commenced construction or reconstruction of the hazardous waste combustor after April 19, 1996, the Permittee must comply with the emission standards under 40 CFR Part 63.1203 and the other requirements of 40 CFR Part 63 Subpart EEE by the later of September 30, 1999 or the date the source starts operations, except as provided by 40 CFR Parts 63.1206(a)(1)(i)(A)(1) through (3) and (a)(1)(i)(B)(2). The costs of retrofitting and replacement of equipment that is installed specifically to comply with 40 CFR Part 63 Subpart EEE, between April 19, 1996 and a source's compliance date, are not considered to be reconstruction costs. (40 CFR 63.1206(a)(1)(i)(B)(1))

(B) For a standard under 40 CFR Part 63.1203 that is more stringent than the standard proposed on April 19, 1996, the Permittee may achieve compliance no later than September 30, 2003 if the Permittee complies with the standard proposed on April 19, 1996 after September 30, 1999. This exception does not apply, however, to new or reconstructed area source hazardous waste combustors that become major sources after September 30, 1999. As provided by 40 CFR Part 63.6(b)(7), such sources must comply with the standards under 40 CFR Parts 63.1203, 63.1204, and 63.1205 at startup. (40 CFR 63.1206(a)(1)(i)(B)(2))

(ii) Compliance date for standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1206(a)(1)(ii))

(I) Compliance Dates for New or Reconstructed Sources. (40 CFR 63.1206(a)(1)(ii)(B))

(A) If the Permittee commenced construction or reconstruction of the hazardous waste combustor after April 20, 2004, the Permittee must comply with the new source emission standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221 and the other requirements of 40 CFR Part 63 Subpart EEE by the later of October 12, 2005 or the date the source starts operations, except as provided by 40 CFR Parts 63.1206(a)(1)(ii)(B)(2) and (a)(1)(ii)(B)(3). The costs of retrofitting and replacement of equipment that is installed specifically to comply with this subpart, between April 20, 2004, and a source's compliance date, are not considered to be reconstruction costs. (40 CFR 63.1206(a)(1)(ii)(B)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (a) Compliance Dates. (40 CFR 63.1206(a)) (continued)
 - (ii) Compliance date for standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1206(a)(1)(ii)) (continued)
 - (I) Compliance Dates for New or Reconstructed Sources. (40 CFR 63.1206(a)(1)(ii)(B)) (continued)
 - (B) For a standard under 40 CFR Parts 63.1219, 63.1220, and 63.1221 that is more stringent than the standard proposed on April 20, 2004, the Permittee may achieve compliance no later than October 14, 2008, if the Permittee complies with the standard proposed on April 20, 2004, after October 12, 2005. This exception does not apply, however, to new or reconstructed area source hazardous waste combustors that become major sources after October 14, 2008. As provided by 40 CFR Part 63.6(b)(7), such sources must comply with the standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221 at startup. (40 CFR 63.1206(a)(1)(ii)(B)(2))
 - (iii) Early Compliance. If the Permittee chooses to comply with the emission standards of 40 CFR Part 63 Subpart EEE prior to the dates specified in 40 CFR Parts 63.1206(a)(1) and (a)(2), the compliance date is the earlier of the date the Permittee postmarks the Notification of Compliance under 40 CFR Part 63.1207(j)(1) or the dates specified in 40 CFR Parts 63.1206(a)(1) and (a)(2). (40 CFR 63.1206(a)(3))
 - (b) Compliance with Standards. (40 CFR 63.1206(b))
 - (i) Applicability. The emission standards and operating requirements set forth in 40 CFR Part 63 Subpart EEE apply at all times except (40 CFR 63.1206(b)(1)):
 - (I) During periods of startup, shutdown, and malfunction; and (40 CFR 63.1206(b)(1)(i))
 - (II) When hazardous waste is not in the combustion chamber (i.e., the hazardous waste feed to the combustor has been cut off for a period of time not less than the hazardous waste residence time) and the Permittee has documented in the operating record that the Permittee is complying with all otherwise applicable requirements and standards promulgated under authority of sections 112 (e.g., 40 CFR Part 63, Subparts LLL, DDDDD, and NNNNN) or 129 of the Clean Air Act in lieu of the emission standards under 40 CFR Parts 63.1203, 63.1204, 63.1205, 63.1215, 63.1216, 63.1217, 63.1218, 63.1219, 63.1220, and 63.1221; the monitoring and compliance standards of 40 CFR Part 63.1206 and 40 CFR Parts 63.1207 through 63.1209, except the modes of operation requirements of 40 CFR Part 63.1209(q); and the notification, reporting, and recordkeeping requirements of 40 CFR Parts 63.1210 through 63.1212. (40 CFR 63.1206(b)(1)(ii))
 - (ii) Methods for Determining Compliance. The Administrator will determine compliance with the emission standards of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Part 63.6(f)(2). Conducting performance testing under operating conditions representative of the extreme range of normal conditions is consistent with the requirements of 40 CFR Parts 63.6(f)(2)(iii)(B) and 63.7(e)(1) to conduct performance testing under representative operating conditions. (40 CFR 63.1206(b)(2))
 - (iii) Finding of Compliance. The Administrator will make a finding concerning compliance with the emission standards and other requirements of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Part 63.6(f)(3). (40 CFR 63.1206(b)(3))
 - (iv) Extension of Compliance with Emission Standards. The Administrator may grant an extension of compliance with the emission standards of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Parts 63.6(i) and 63.1213. (40 CFR 63.1206(b)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (v) Changes in Design, Operation, or Maintenance. (40 CFR 63.1206(b)(5))
 - (I) Changes that May Adversely Affect Compliance. If you plan to change (as defined in paragraph 40 CFR Part 63.1206(b)(5)(iii)) the design, operation, or maintenance practices of the source in a manner that may adversely affect compliance with any emission standard that is not monitored with a CEMS (40 CFR 63.1206(b)(5)(i)):
 - (A) Notification. The Permittee must notify the Administrator at least 60 days prior to the change, unless the Permittee documents circumstances that dictate that such prior notice is not reasonably feasible. The notification must include (40 CFR 63.1206(b)(5)(i)(A)):
 - I. A description of the changes and which emission standards may be affected; and (40 CFR 63.1206(b)(5)(i)(A)(1));
 - II. A comprehensive performance test schedule and test plan under the requirements of 40 CFR Part 63.1207(f) that will document compliance with the affected emission standard(s) (40 CFR 63.1206(b)(5)(i)(A)(2));
 - (B) Performance Test. The Permittee must conduct a comprehensive performance test under the requirements of 40 CFR Parts 63.1207(f)(1) and (g)(1) to document compliance with the affected emission standard(s) and establish operating parameter limits as required under 40 CFR Part 63.1209, and submit to the Administrator a Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d); and (40 CFR 63.1206(b)(5)(i)(B))
 - (C) Restriction on Waste Burning. (40 CFR 63.1206(b)(5)(i)(C))
 - I. Except as provided by 40 CFR Part 63.1206(b)(5)(i)(C)(2), after the change and prior to submitting the notification of compliance, the Permittee must not burn hazardous waste for more than a total of 720 hours (renewable at the discretion of the Administrator) and only for the purposes of pretesting or comprehensive performance testing. Pretesting is defined at 40 CFR Parts 63.1207(h)(2)(i) and (ii). (40 CFR 63.1206(b)(5)(i)(C)(1))
 - II. The Permittee may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. The Permittee must specify operating requirements, including limits on operating parameters, that the Permittee determines will ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE based on available information. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements. (40 CFR 63.1206(b)(5)(i)(C)(2))
 - (II) Changes that Will Not Affect Compliance. If the Permittee determines that a change will not adversely affect compliance with the emission standards or operating requirements, the Permittee must document the change in the operating record upon making such change. The Permittee must revise as necessary the performance test plan, Documentation of Compliance, Notification of Compliance, and start-up, shutdown, and malfunction plan to reflect these changes. (40 CFR 63.1206(b)(5)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (v) Changes in Design, Operation, or Maintenance. (40 CFR 63.1206(b)(5)) (continued)
 - (III) Definition of “Change.” For purposes of 40 CFR Part 63.1206(b)(5), “change” means any change in design, operation, or maintenance practices that were documented in the comprehensive performance test plan, Notification of Compliance, or startup, shutdown, and malfunction plan. (40 CFR 63.1206(b)(5)(iii))
 - (vi) Compliance with the Carbon Monoxide and Hydrocarbon Emission Standards. This applies to sources that elect to comply with the carbon monoxide and hydrocarbon emissions standards of 40 CFR Part 63 Subpart EEE by documenting continuous compliance with the carbon monoxide standard using a continuous emissions monitoring system and documenting compliance with the hydrocarbon standard during the destruction and removal efficiency (DRE) performance test or its equivalent. (40 CFR 63.1206(b)(6))
 - (I) If a DRE test performed pursuant to 40 CFR Part 63.1207(c)(2) is acceptable as documentation of compliance with the DRE standard, The Permittee may use the highest hourly rolling average hydrocarbon level achieved during the DRE test runs to document compliance with the hydrocarbon standard. An acceptable DRE test is any test for which the data and results are determined to meet quality assurance objectives (on a site-specific basis) such that the results adequately demonstrate compliance with the DRE standard. (40 CFR 63.1206(b)(6)(i))
 - (II) If during this acceptable DRE test the Permittee did not obtain hydrocarbon emissions data sufficient to document compliance with the hydrocarbon standard, the Permittee must either (40 CFR 63.1206(b)(6)(ii)):
 - (A) Perform, as part of the performance test, an “equivalent DRE test” to document compliance with the hydrocarbon standard. An equivalent DRE test is comprised of a minimum of three runs each with a minimum duration of one hour during which the Permittee operate the combustor as close as reasonably possible to the operating parameter limits that the Permittee established based on the initial DRE test. The Permittee must use the highest hourly rolling average hydrocarbon emission level achieved during the equivalent DRE test to document compliance with the hydrocarbon standard; or (40 CFR 63.1206(b)(6)(ii)(A))
 - (B) Perform a DRE test as part of the performance test. (40 CFR 63.1206(b)(6)(ii)(B))
 - (vii) Compliance with the DRE standard. (40 CFR 63.1206(b)(7))
 - (I) Except as provided in 40 CFR Parts 63.1206(b)(7)(ii) and (b)(7)(iii) (40 CFR 63.1206(b)(7)(i)):
 - (A) The Permittee must document compliance with the Destruction and Removal Efficiency (DRE) standard under 40 CFR Part 63 Subpart EEE only once provided that the Permittee does not modify the source after the DRE test in a manner that could affect the ability of the source to achieve the DRE standard. (40 CFR 63.1206(b)(7)(i)(A))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (vii) Compliance with the DRE standard. (40 CFR 63.1206(b)(7)) (continued)
 - (I) Except as provided in 40 CFR Parts 63.1206(b)(7)(ii) and (b)(7)(iii) (40 CFR 63.1206(b)(7)(i)) (continued):
 - (B) The Permittee may use any DRE test data that documents that the Permittee's source achieves the required level of DRE provided (40 CFR 63.1206(b)(7)(i)(B)):
 - I. The Permittee has not modified the design or operation of the Permittee's source in a manner that could affect the ability of the Permittee's source to achieve the DRE standard since the DRE test was performed; and, (40 CFR 63.1206(b)(7)(i)(B)(1))
 - II. The DRE test data meet quality assurance objectives determined on a site-specific basis. (40 CFR 63.1206(b)(7)(i)(B)(2))
 - (II) Sources that feed hazardous waste at locations other than the normal flame zone. (40 CFR 63.1206(b)(7)(ii))
 - (A) Except as provided by 40 CFR Part 63.1206(b)(7)(ii)(B), if hazardous waste is fed at a location in the combustion system other than the normal flame zone, then the Permittee must demonstrate compliance with the DRE standard during each comprehensive performance test (40 CFR 63.1206(b)(7)(ii)(A));
 - (B) If at any time the Permittee changes the design, operation, and maintenance features in a manner that could reasonably be expected to affect the ability to meet the DRE standard, then the Permittee must comply with the requirements of 40 CFR Part 63.1206(b)(7)(ii)(A). (40 CFR 63.1206(b)(7)(ii)(B)(2))
 - (III) For sources that do not use DRE previous testing to document conformance with the DRE standard pursuant to 40 CFR Part 63.1207(c)(2), the Permittee must perform DRE testing during the initial comprehensive performance test. (40 CFR 63.1206(b)(7)(iii))
 - (viii) Applicability of particulate matter and opacity standards during particulate matter CEMS correlation tests. (40 CFR 63.1206(b)(8))
 - (I) Any particulate matter and opacity standards of 40 CFR Parts 60, 61, 63, 264, 265, and 266 (i.e., any Title 40 particulate or opacity standards) applicable to a hazardous waste combustor do not apply while the Permittee conducts particulate matter continuous emissions monitoring system (CEMS) correlation tests (i.e., correlation with manual stack methods) under the conditions of 40 CFR Parts 63.1206(b)(8)(iii) through (vii). (40 CFR 63.1206(b)(8)(i))
 - (II) Any permit or other emissions or operating parameter limits or conditions, including any limitation on workplace practices, that are applicable to hazardous waste combustors to ensure compliance with any particulate matter and opacity standards of 40 CFR Parts 60, 61, 63, 264, 265, and 266 (i.e., any Title 40 particulate or opacity standards) do not apply while the Permittee conducts particulate matter CEMS correlation tests under the conditions of 40 CFR Parts 63.1206(b)(8)(iii) through (vii). (40 CFR 63.1206(b)(8)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (viii) *Applicability of particulate matter and opacity standards during particulate matter CEMS correlation tests.* (40 CFR 63.1206(b)(8)) (continued)
 - (III) For the provisions of this section to apply, the Permittee must (40 CFR 63.1206(b)(8)(iii)):
 - (A) Develop a particulate matter CEMS correlation test plan that includes the following information. This test plan may be included as part of the comprehensive performance test plan required under 40 CFR Parts 63.1207(e) and (f) (40 CFR 63.1206(b)(8)(iii)(A)):
 - I. Number of test conditions and number of runs for each test condition (40 CFR 63.1206(b)(8)(iii)(A)(1));
 - II. Target particulate matter emission level for each test condition (40 CFR 63.1206(b)(8)(iii)(A)(2));
 - III. How the Permittee plans to modify operations to attain the desired particulate matter emission levels; and (40 CFR 63.1206(b)(8)(iii)(A)(3))
 - IV. Anticipated normal particulate matter emission levels; and (40 CFR 63.1206(b)(8)(iii)(A)(4))
 - (B) Submit the test plan to the Administrator for approval at least 90 calendar days before the correlation test is scheduled to be conducted. (40 CFR 63.1206(b)(8)(iii)(B))
 - (IV) The Administrator will review and approve/disapprove the correlation test plan under the procedures for review and approval of the site-specific test plan provided by 40 CFR Parts 63.7(c)(3)(i) and (iii). If the Administrator fails to approve or disapprove the correlation test plan within the time period specified by 40 CFR Part 63.7(c)(3)(i), the plan is considered approved, unless the Administrator has requested additional information. (40 CFR 63.1206(b)(8)(iv))
 - (V) The particulate matter and opacity standards and associated operating limits and conditions will not be waived for more than 96 hours, in the aggregate, for a correlation test, including all runs of all test conditions, unless more time is approved by the Administrator. (40 CFR 63.1206(b)(8)(v))
 - (VI) The stack sampling team must be on-site and prepared to perform correlation testing no later than 24 hours after the Permittee modifies operations to attain the desired particulate matter emissions concentrations, unless you document in the correlation test plan that a longer period of conditioning is appropriate. (40 CFR 63.1206(b)(8)(vi))
 - (VII) The Permittee must return to operating conditions indicative of compliance with the applicable particulate matter and opacity standards as soon as possible after correlation testing is completed. (40 CFR 63.1206(b)(8)(vii))
 - (ix) *Calculation of Hazardous Waste Residence Time.* The Permittee must calculate the hazardous waste residence time and include the calculation in the performance test plan under 40 CFR Part 63.1207(f) and the operating record. The Permittee must also provide the hazardous waste residence time in the Documentation of Compliance under 40 CFR Part 63.1211(c) and the Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d). (40 CFR 63.1206(b)(11))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (x) *Documenting compliance with the standards based on performance testing.* (40 CFR 63.1206(b)(12))
 - (I) The Permittee must conduct a minimum of three runs of a performance test required under 40 CFR Part 63.1207 to document compliance with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(b)(12)(i))
 - (II) The Permittee must document compliance with the emission standards based on the arithmetic average of the emission results of each run, except that the Permittee must document compliance with the destruction and removal efficiency standard for each run of the comprehensive performance test individually. (40 CFR 63.1206(b)(12)(ii))
 - (xi) *Alternative to the Particulate Matter Standard for Incinerators.* (40 CFR 63.1206(b)(14))
 - (I) *General.* In lieu of complying with the particulate matter standards under 40 CFR Part 63.1203, the Permittee may elect to comply with the following alternative metal emission control requirements (40 CFR 63.1206(b)(14)(i)):
 - (II) *Alternative Metal Emission Control Requirements for Existing Incinerators.* (40 CFR 63.1206(b)(14)(ii))
 - (A) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain cadmium, lead, and selenium in excess of 240 µgm/dscm, combined emissions, corrected to 7 percent oxygen; and, (40 CFR 63.1206(b)(14)(ii)(A))
 - (B) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain antimony, arsenic, beryllium, chromium, cobalt, manganese, and nickel in excess of 97 µgm/dscm, combined emissions, corrected to 7 percent oxygen. (40 CFR 63.1206(b)(14)(ii)(B))
 - (III) *Operating Limits.* Semivolatile and low volatile metal operating parameter limits must be established to ensure compliance with the alternative emission limitations described in 40 CFR Parts 63.1206(b)(14)(ii) and (iii) pursuant to 40 CFR Part 63.1209(n), except that semivolatile metal feedrate limits apply to lead, cadmium, and selenium, combined, and low volatile metal feedrate limits apply to arsenic, beryllium, chromium, antimony, cobalt, manganese, and nickel, combined. (40 CFR 63.1206(b)(14)(iv))
 - (c) Operating Requirements. (40 CFR 63.1206(c))
 - (i) General. (40 CFR 63.1206(c)(1))
 - (I) The Permittee must operate only under the operating requirements specified in the Documentation of Compliance under 40 CFR Part 63.1211(c) or the Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d), except (40 CFR 63.1206(c)(1)(i)):
 - (A) During performance tests under approved test plans according to 40 CFR Parts 63.1207(e), (f), and (g), and (40 CFR 63.1206(c)(1)(i)(A))
 - (B) Under the conditions of 40 CFR Parts 63.1206(b)(1)(i) or (ii) (40 CFR 63.1206(c)(1)(i)(B));
 - (II) The Documentation of Compliance and the Notification of Compliance must contain operating requirements including, but not limited to, the operating requirements in this section and 40 CFR Part 63.1209. (40 CFR 63.1206(c)(1)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (i) General. (40 CFR 63.1206(c)(1)) (continued)
 - (III) Failure to comply with the operating requirements is failure to ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE (40 CFR 63.1206(c)(1)(iii));
 - (IV) Operating requirements in the Notification of Compliance are applicable requirements for purposes of parts 70 and 71 of this chapter (40 CFR 63.1206(c)(1)(iv));
 - (V) The operating requirements specified in the Notification of Compliance will be incorporated in the Title V permit. (40 CFR 63.1206(c)(1)(v))
 - (ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2))
 - (I) The Permittee is subject to the startup, shutdown, and malfunction plan requirements of 40 CFR Part 63.6(e)(3). (40 CFR 63.1206(c)(2)(i))
 - (II) If the Permittee elects to comply with 40 CFR Parts 270.235(a)(1)(iii), 270.235(a)(2)(iii), or 270.235(b)(1)(ii) to address RCRA concerns that you minimize emissions of toxic compounds from startup, shutdown, and malfunction events (including releases from emergency safety vents) (40 CFR 63.1206(c)(2)(ii)):
 - (A) The startup, shutdown, and malfunction plan must include a description of potential causes of malfunctions, including releases from emergency safety vents, that may result in significant releases of hazardous air pollutants, and actions the source is taking to minimize the frequency and severity of those malfunctions. (40 CFR 63.1206(c)(2)(ii)(A))
 - (B) The Permittee must submit the startup, shutdown, and malfunction plan to the Administrator for review and approval. (40 CFR 63.1206(c)(2)(ii)(B))
 - I. Approval Procedure. The Administrator will notify the Permittee of approval or intention to deny approval of the startup, shutdown, and malfunction plan within 90 calendar days after receipt of the original request and within 60 calendar days after receipt of any supplemental information that the Permittee submits. Before disapproving the plan, the Administrator will notify the Permittee of the Administrator's intention to disapprove the plan together with (40 CFR 63.1206(c)(2)(ii)(B)(1)):
 - A. Notice of the information and findings on which intended disapproval is based; and (40 CFR 63.1206(c)(2)(ii)(B)(1)(i))
 - B. Notice of opportunity for the Permittee to present additional information to the Administrator before final action on disapproval of the plan. At the time the Administrator notifies the Permittee of intention to disapprove the plan, the Administrator will specify how much time the Permittee will have after being notified on the intended disapproval to submit additional information. (40 CFR 63.1206(c)(2)(ii)(B)(1)(ii))
 - II. Responsibility of the Permittee. The Permittee is responsible for ensuring that the submittal of any supplementary and additional information supporting the Permittee's plan in a timely manner to enable the Administrator to consider whether to approve the plan. Neither the Permittee's submittal of the plan, nor the Administrator's failure to approve or disapprove the plan, relieves the Permittee of the responsibility to comply with the provisions of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(2)(ii)(B)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)) (continued)
 - (II) If the Permittee elects to comply with 40 CFR Parts 270.235(a)(1)(iii), 270.235(a)(2)(iii), or 270.235(b)(1)(ii) to address RCRA concerns that you minimize emissions of toxic compounds from startup, shutdown, and malfunction events (including releases from emergency safety vents) (40 CFR 63.1206(c)(2)(ii)) (continued):
 - (C) Changes to the Plan that may Significantly Increase Emissions. (40 CFR 63.1206(c)(2)(ii)(C))
 - I. The Permittee must request approval in writing from the Administrator within 5 days after making a change to the startup, shutdown, and malfunction plan that may significantly increase emissions of hazardous air pollutants. (40 CFR 63.1206(c)(2)(ii)(C)(1))
 - II. To request approval of such changes to the startup, shutdown, and malfunction plan, the Permittee must follow the procedures provided by 40 CFR Part 63.1206(c)(2)(ii)(B) for initial approval of the plan. (40 CFR 63.1206(c)(2)(ii)(C)(2))
 - (III) The Permittee must identify in the plan a projected oxygen correction factor based on normal operations to use during periods of startup and shutdown. (40 CFR 63.1206(c)(2)(iii))
 - (IV) The Permittee must record the plan in the operating record. (40 CFR 63.1206(c)(2)(iv))
 - (V) Operating Under the Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)(v))
 - (A) Compliance with AWWCO Requirements During Malfunctions. (40 CFR 63.1206(c)(2)(v)(A))
 - I. During malfunctions, the automatic waste feed cutoff requirements of 40 CFR Part 63.1206(c)(3) continue to apply, except for 40 CFR Parts 63.1206(c)(3)(v) and (c)(3)(vi). If the Permittee exceeds a 40 CFR Part 63 Subpart EEE emission standard monitored by a CEMS or COMs or operating limit specified under 40 CFR Part 63.1209, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed, except as provided by 40 CFR Part 63.1206(c)(3)(viii). If the malfunction itself prevents immediate and automatic cutoff of the hazardous waste feed, however, the Permittee must cease feeding hazardous waste as quickly as possible. (40 CFR 63.1206(c)(2)(v)(A)(1))
 - II. Although the automatic waste feed cutoff requirements continue to apply during a malfunction, an exceedance of an emission standard monitored by a CEMS or COMS or operating limit specified under 40 CFR Part 63.1209 is not a violation of 40 CFR Part 63 Subpart EEE if the Permittee takes the corrective measures prescribed in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(A)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)) (continued)
 - (V) Operating Under the Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)(v)) (continued)
 - (A) Compliance with AWFCO Requirements During Malfunctions. (40 CFR 63.1206(c)(2)(v)(A))
 - III. Excessive Exceedances During Malfunctions. For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the Permittee must (40 CFR 63.1206(c)(2)(v)(A)(3)):
 - A. Within 45 days of the 10th exceedance, complete an investigation of the cause of each exceedance and evaluation of approaches to minimize the frequency, duration, and severity of each exceedance, and revise the startup, shutdown, and malfunction plan as warranted by the evaluation to minimize the frequency, duration, and severity of each exceedance; and (40 CFR 63.1206(c)(2)(v)(A)(3)(i))
 - B. Record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the startup, shutdown, and malfunction plan, in the excess emissions report required under 40 CFR Part 63.10(e)(3). (40 CFR 63.1206(c)(2)(v)(A)(3)(ii))
- (B) Compliance with AWFCO Requirements When Burning Hazardous Waste During Startup and Shutdown. (40 CFR 63.1206(c)(2)(v)(B))
 - I. If the Permittee feeds hazardous waste during startup or shutdown, the Permittee must include waste feed restrictions (e.g., type and quantity), and other appropriate operating conditions and limits in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(B)(1))
 - II. The Permittee must interlock the operating limits you establish under 40 CFR Part 63.1206(c)(2)(v)(B)(1) with the automatic waste feed cutoff system required under 40 CFR Part 63.1206(c)(3), except for 40 CFR Parts 63.1206(c)(3)(v) and (c)(3)(vi). (40 CFR 63.1206(c)(2)(v)(B)(2))
 - III. When feeding hazardous waste during startup or shutdown, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed if you exceed the operating limits you establish under 40 CFR Part 63.1206(c)(2)(v)(B)(1), except as provided by 40 CFR Part 63.1206(c)(3)(viii). (40 CFR 63.1206(c)(2)(v)(B)(3))
 - IV. Although the automatic waste feed cutoff requirements of 40 CFR Part 63.1206(c)(2)(v)(B)(4) apply during startup and shutdown, an exceedance of an emission standard or operating limit is not a violation of 40 CFR Part 63 Subpart EEE if the Permittee complies with the operating procedures prescribed in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(B)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (iii) Automatic Waste Feed Cutoff (AWFCO) (40 CFR 63.1206(c)(3))
 - (I) General. Upon the compliance date, the Permittee must operate the hazardous waste combustor with a functioning system that immediately and automatically cuts off the hazardous waste feed, except as provided by 40 CFR Part 63.1206(c)(3)(viii) (40 CFR 63.1206(c)(3)(i)):
 - (A) When any of the following are exceeded: Operating parameter limits specified under 40 CFR Part 63.1209; an emission standard monitored by a CEMS; and the allowable combustion chamber pressure (40 CFR 63.1206(c)(3)(i)(A));
 - (B) When the span value of any CMS detector, except a CEMS, is met or exceeded (40 CFR 63.1206(c)(3)(i)(B));
 - (C) Upon malfunction of a CMS monitoring an operating parameter limit specified under 40 CFR Part 63.1209 or an emission level; or (40 CFR 63.1206(c)(3)(i)(C));
 - (D) When any component of the automatic waste feed cutoff system fails. (40 CFR 63.1206(c)(3)(i)(D))
 - (II) Ducting of Combustion Gases. During an AWFCO, the Permittee must continue to duct combustion gasses to the air pollution control system while hazardous waste remains in the combustion chamber (i.e., if the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated). (40 CFR 63.1206(c)(3)(ii))
 - (III) Restarting Waste Feed. The Permittee must continue to monitor during the cutoff the operating parameters for which limits are established under 40 CFR Part 63.1209 and the emissions required under that section to be monitored by a CEMS, and you must not restart the hazardous waste feed until the operating parameters and emission levels are within the specified limits. (40 CFR 63.1206(c)(3)(iii))
 - (IV) Failure of the AWFCO System. If the AWFCO system fails to automatically and immediately cutoff the flow of hazardous waste upon exceedance of a parameter required to be interlocked with the AWFCO system under 40 CFR Part 63.1206(c)(3)(i), the Permittee has failed to comply with the AWFCO requirements of 40 CFR Part 63.1209(c)(3). If an equipment or other failure prevents immediate and automatic cutoff of the hazardous waste feed, however, the Permittee must cease feeding hazardous waste as quickly as possible. (40 CFR 63.1206(c)(3)(iv))
 - (V) Corrective Measures. If, after any AWFCO, there is an exceedance of an emission standard or operating requirement, irrespective of whether the exceedance occurred while hazardous waste remained in the combustion chamber (i.e., whether the hazardous waste residence time has transpired since the hazardous waste feed cutoff system was activated), the Permittee must investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the operating record. (40 CFR 63.1206(c)(3)(v))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (iii) Automatic Waste Feed Cutoff (AWFCO) (40 CFR 63.1206(c)(3))
 - (VI) Excessive Exceedance Reporting. (40 CFR 63.1206(c)(3)(vi))
 - (A) For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, you must submit to the Administrator a written report within 5 calendar days of the 10th exceedance documenting the exceedances and results of the investigation and corrective measures taken. (40 CFR 63.1206(c)(3)(vi)(A))
 - (B) On a case-by-case basis, the Administrator may require excessive exceedance reporting when fewer than 10 exceedances occur during a 60-day block period. (40 CFR 63.1206(c)(3)(vi)(B))
 - (VII) Testing. The AWFCO system and associated alarms must be tested at least weekly to verify operability, unless the Permittee documents in the operating record that weekly inspections will unduly restrict or upset operations and that less frequent inspection will be adequate. At a minimum, the Permittee must conduct operability testing at least monthly. The Permittee must document and record in the operating record AWFCO operability test procedures and results. (40 CFR 63.1206(c)(3)(vii))
 - (VIII) Ramping Down Waste Feed. (40 CFR 63.1206(c)(3)(viii))
 - (A) The Permittee may ramp down the waste feedrate of pumpable hazardous waste over a period not to exceed one minute, except as provided by 40 CFR Part 63.1206(c)(3)(viii)(B). If the Permittee elects to ramp down the waste feed, the Permittee must document ramp down procedures in the operating and maintenance plan. The procedures must specify that the ramp down begins immediately upon initiation of automatic waste feed cutoff and the procedures must prescribe a bona fide ramping down. If an emission standard or operating limit is exceeded during the ramp down, the Permittee has failed to comply with the emission standards or operating requirements of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(3)(viii)(A))
 - (B) If the automatic waste feed cutoff is triggered by an exceedance of any of the following operating limits, the Permittee may not ramp down the waste feed cutoff: Minimum combustion chamber temperature, maximum hazardous waste feedrate, or any hazardous waste firing system operating limits that may be established for the combustor. (40 CFR 63.1206(c)(3)(viii)(B))
 - (iv) ESV Openings (40 CFR 63.1206(c)(4))
 - (I) Failure to meet standards. If an emergency safety vent (ESV) opens when hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not expired) during an event other than a malfunction as defined in the startup, shutdown, and malfunction plan such that combustion gases are not treated as during the most recent comprehensive performance test (e.g., if the combustion gas by-passes any emission control device that was operating during the performance test), the Permittee must document in the operating record whether the Permittee remains in compliance with the emission standards of 40 CFR Part 63 Subpart EEE considering emissions during the ESV opening event. (40 CFR 63.1206(c)(4)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (iv) ESV Openings (40 CFR 63.1206(c)(4)) (continued)
 - (II) ESV Operating Plan. (40 CFR 63.1206(c)(4)(ii))
 - (A) The Permittee must develop an ESV operating plan, comply with the operating plan, and keep the plan in the operating record. (40 CFR 63.1206(c)(4)(ii)(A))
 - (B) The ESV operating plan must provide detailed procedures for rapidly stopping the waste feed, shutting down the combustor, and maintaining temperature and negative pressure in the combustion chamber during the hazardous waste residence time, if feasible. The plan must include calculations and information and data documenting the effectiveness of the plan's procedures for ensuring that combustion chamber temperature and negative pressure are maintained as is reasonably feasible. (40 CFR 63.1206(c)(4)(ii)(B))
 - (III) Corrective Measures. After any ESV opening that results in a failure to meet the emission standards as defined in 40 CFR Part 63.1206(c)(4)(i), the Permittee must investigate the cause of the ESV opening, take appropriate corrective measures to minimize such future ESV openings, and record the findings and corrective measures in the operating record. (40 CFR 63.1206(c)(4)(iii))
 - (IV) Reporting Requirements. The Permittee must submit to the Administrator a written report within 5 days of an ESV opening that results in failure to meet the emission standards of 40 CFR Part 63 Subpart EEE (as determined in 40 CFR Part 63.1206(c)(4)(i)) documenting the result of the investigation and corrective measures taken. (40 CFR 63.1206(c)(4)(iv))
 - (v) Combustion System Leaks. (40 CFR 63.1206(c)(5))
 - (I) Combustion system leaks of hazardous air pollutants must be controlled by (40 CFR 63.1206(c)(5)(i)):
 - (A) Keeping the combustion zone sealed to prevent combustion system leaks; or (40 CFR 63.1206(c)(5)(i)(A))
 - (B) Maintaining the maximum combustion zone pressure lower than ambient pressure using an instantaneous monitor; or (40 CFR 63.1206(c)(5)(i)(B))
 - (C) Upon prior written approval of the Administrator, an alternative means of control to provide control of combustion system leaks equivalent to maintenance of combustion zone pressure lower than ambient pressure; or (40 CFR 63.1206(c)(5)(i)(C))
 - (D) Upon prior written approval of the Administrator, other technique(s) which can be demonstrated to prevent fugitive emissions without use of instantaneous pressure limits; and (40 CFR 63.1206(c)(5)(i)(D))
 - (II) The Permittee must specify in the performance test workplan and Notification of Compliance the method that will be used to control combustion system leaks. If the Permittee controls combustion system leaks by maintaining the combustion zone pressure lower than ambient pressure using an instantaneous monitor, the Permittee must also specify in the performance test workplan and Notification of Compliance the monitoring and recording frequency of the pressure monitor, and specify how the monitoring approach will be integrated into the automatic waste feed cutoff system. (40 CFR 63.1206(c)(5)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(vi) Operator Training and Certification (40 CFR 63.1206(c)(6))

(I) The Permittee must establish training programs for all categories of personnel whose activities may reasonably be expected to directly affect emissions of hazardous air pollutants from the source. Such persons include, but are not limited to, chief facility operators, control room operators, continuous monitoring system operators, persons that sample and analyze feedstreams, persons that manage and charge feedstreams to the combustor, persons that operate emission control devices, and ash and waste handlers. Each training program shall be of a technical level commensurate with the person's job duties specified in the training manual. Each commensurate training program shall require an examination to be administered by the instructor at the end of the training course. Passing of this test shall be deemed the "certification" for personnel, except that, for control room operators, the training and certification program shall be as specified in 40 CFR Parts 63.1206(c)(6)(iii) through (c)(6)(vi). (40 CFR 63.1206(c)(6)(i))

(II) The Permittee must ensure that the source is operated and maintained at all times by persons who are trained and certified to perform these and any other duties that may affect emissions of hazardous air pollutants. A certified control room operator must be on duty at the site at all times the source is in operation. (40 CFR 63.1206(c)(6)(ii))

(III) Hazardous waste incinerator control room operators must (40 CFR 63.1206(c)(6)(iii)):

(A) Be trained and certified under a site-specific, source-developed and implemented program that meets the requirements of 40 CFR Part 63.1206(c)(6)(v); or (40 CFR 63.1206(c)(6)(iii)(A))

(B) Be trained under the requirements of, and certified under, one of the following American Society of Mechanical Engineers (ASME) standards: QHO-1-1994, QHO-1a-1996, or QHO-1-2004 (Standard for the Qualification and Certification of Hazardous Waste Incinerator Operators). If you elect to use the ASME program (40 CFR 63.1206(c)(6)(iii)(B)):

I. Control room operators must, prior to the compliance date, achieve provisional certification, and must submit an application to ASME and be scheduled for the full certification exam. Within one year of the compliance date, control room operators must achieve full certification (40 CFR 63.1206(c)(6)(iii)(B)(1));

II. New operators and operators of new sources must, before assuming their duties, achieve provisional certification, and must submit an application to ASME, and be scheduled for the full certification exam. Within one year of assuming their duties, these operators must achieve full certification; or (40 CFR 63.1206(c)(6)(iii)(B)(2))

(C) Be trained and certified under a State program. (40 CFR 63.1206(c)(6)(iii)(C))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (vi) Operator Training and Certification (40 CFR 63.1206(c)(6)) (continued)
 - (V) Site-specific, source developed and implemented training programs for control room operators must include the following elements (40 CFR 63.1206(c)(6)(v)):
 - (A) Training on the subjects listed under 40 CFR Parts 63.1206(c)(6)(v)(A)(1) through (9). (40 CFR 63.1206(c)(6)(v)(A));
 - (B) An examination designed and administered by the instructor; and (40 CFR 63.1206(c)(6)(v)(B))
 - (C) Written material covering the training course topics that may serve as reference material following completion of the course. (40 CFR 63.1206(c)(6)(v)(C))
 - (VI) To maintain control room operator qualification under a site-specific, source developed and implemented training program as provided by 40 CFR Part 63.1206(c)(6)(v), control room operators must complete an annual review or refresher course covering, at a minimum, the following topics (40 CFR 63.1206(c)(6)(vi)):
 - (A) Update of regulations (40 CFR 63.1206(c)(6)(vi)(A));
 - (B) Combustor operation, including startup and shutdown procedures, waste firing, and residue handling (40 CFR 63.1206(c)(6)(vi)(B));
 - (C) Inspection and maintenance (40 CFR 63.1206(c)(6)(vi)(C));
 - (D) Responses to malfunctions or conditions that may lead to malfunction; and (40 CFR 63.1206(c)(6)(vi)(D))
 - (E) Operating problems encountered by the operator. (40 CFR 63.1206(c)(6)(vi)(E))
 - (VII) The Permittee must record the operator training and certification program in the operating record. (40 CFR 63.1206(c)(6)(vii))
 - (vii) Operation and Maintenance Plan (40 CFR 63.1206(c)(7))
 - (I) The Permittee must prepare and at all times operate according to an operation and maintenance plan that describes in detail procedures for operation, inspection, maintenance, and corrective measures for all components of the combustor, including associated pollution control equipment, that could affect emissions of regulated hazardous air pollutants. (40 CFR 63.1206(c)(7)(i))
 - (II) The plan must prescribe how you will operate and maintain the combustor in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels achieved during the comprehensive performance test. (40 CFR 63.1206(c)(7)(ii))
 - (III) This plan ensures compliance with the operation and maintenance requirements of 40 CFR Part 63.6(e) and minimizes emissions of pollutants, automatic waste feed cutoffs, and malfunctions. (40 CFR 63.1206(c)(7)(iii))
 - (IV) The Permittee must record the plan in the operating record. (40 CFR 63.1206(c)(7)(iv))
 - (viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8))
 - (I) If the combustor is equipped with a baghouse (fabric filter), the Permittee must continuously operate either (40 CFR 63.1206(c)(8)(i)):
 - (A) A bag leak detection system that meets the specifications and requirements of 40 CFR Part 63.1206(c)(8)(ii) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(8)(iii) and (iv); or (40 CFR 63.1206(c)(8)(i)(A))
 - (B) A particulate matter detection system under 40 CFR Part 63.1206(c)(9). (40 CFR 63.1206(c)(8)(i)(B))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)
 - (II) Bag Leak Detection System Specification and Requirements. (40 CFR 63.1206(c)(8)(ii))
 - (A) The bag leak detection system must be certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligrams per actual cubic meter unless the Permittee demonstrates, under 40 CFR Part 63.1209(g)(1), that a higher detection limit would routinely detect particulate matter loadings during normal operations (40 CFR 63.1206(c)(8)(ii)(A));
 - (B) The bag leak detection system shall provide output of relative or absolute particulate matter loadings (40 CFR 63.1206(c)(8)(ii)(B));
 - (C) The bag leak detection system shall be equipped with an alarm system that will sound an audible alarm when an increase in relative particulate loadings is detected over a preset level (40 CFR 63.1206(c)(8)(ii)(C));
 - (D) The bag leak detection system shall be installed and operated in a manner consistent with available written guidance from the U.S. Environmental Protection Agency or, in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, and adjustment of the system (40 CFR 63.1206(c)(8)(ii)(D));
 - (E) The initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time (40 CFR 63.1206(c)(8)(ii)(E));
 - (F) Following initial adjustment, the Permittee must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in the operation and maintenance plan required under 40 CFR Part 63.1206(c)(7). The Permittee must not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365 day period unless such adjustment follows a complete baghouse inspection which demonstrates the baghouse is in good operating condition (40 CFR 63.1206(c)(8)(ii)(F));
 - (G) For negative pressure or induced air baghouses, and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag leak detector shall be installed downstream of the baghouse and upstream of any wet acid gas scrubber; and (40 CFR 63.1206(c)(8)(ii)(G))
 - (H) Where multiple detectors are required, the system's instrumentation and alarm system may be shared among the detectors. (40 CFR 63.1206(c)(8)(ii)(H))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)
 - (III) Bag Leak Detection System Corrective Measures Requirements. The operating and maintenance plan required by 40 CFR Part 63.1206(c)(7) must include a corrective measures plan that specifies the procedures the Permittee will follow in the case of a bag leak detection system alarm or malfunction. The corrective measures plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm or bag leak detection system malfunction in accordance with the requirements of 40 CFR Part 63.1206(c)(8)(iii)(A) as well as the corrective measures taken to correct the control device or bag leak detection system malfunction or to minimize emissions in accordance with the requirements of 40 CFR Part 63.1206(c)(8)(iii)(B). Failure to initiate the corrective measures required by this paragraph is failure to ensure compliance with the emission standards in 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(8)(iii))
 - (A) The Permittee must initiate the procedures used to determine the cause of the alarm or bag leak detection system malfunction within 30 minutes of the time the alarm first sounds; and (40 CFR 63.1206(c)(8)(iii)(A))
 - (B) The Permittee must alleviate the cause of the alarm or bag leak detection system malfunction by taking the necessary corrective measure(s) which may include, but are not to be limited to, the following (40 CFR 63.1206(c)(8)(iii)(B)):
 - I. Inspecting the baghouse for air leaks, torn or broken filter elements, or any other malfunction that may cause an increase in emissions (40 CFR 63.1206(c)(8)(iii)(B)(1));
 - II. Sealing off defective bags or filter media (40 CFR 63.1206(c)(8)(iii)(B)(2));
 - III. Replacing defective bags or filter media, or otherwise repairing the control device (40 CFR 63.1206(c)(8)(iii)(B)(3));
 - IV. Sealing off a defective baghouse compartment (40 CFR 63.1206(c)(8)(iii)(B)(4));
 - V. Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system; or (40 CFR 63.1206(c)(8)(iii)(B)(5))
 - VI. Shutting down the combustor. (40 CFR 63.1206(c)(8)(iii)(B)(6))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)
 - (IV) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or the bag leak detection system is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and bag leak detection system malfunctions and the revisions to the design, operation, or maintenance of the combustor, baghouse, or bag leak detection system the Permittee is taking to minimize exceedances and bag leak detection system malfunctions. To document compliance with this requirement (40 CFR 63.1206(c)(8)(iv)):
 - (A) The Permittee must keep records of the date, time, and duration of each alarm and bag leak detection system malfunction, the time corrective action was initiated and completed, and a brief description of the cause of the alarm or bag leak detection system malfunction and the corrective action taken (40 CFR 63.1206(c)(8)(iv)(A));
 - (B) The Permittee must record the percent of the operating time during each 6-month period that the alarm sounds and the bag leak detection system malfunctions (40 CFR 63.1206(c)(8)(iv)(B));
 - (C) If inspection of the fabric filter demonstrates that no corrective action is required, then no alarm time is counted; and (40 CFR 63.1206(c)(8)(iv)(C))
 - (D) If corrective action is required, each alarm shall be counted as a minimum of 1 hour. Each bag leak detection system malfunction shall also be counted as a minimum of 1 hour. (40 CFR 63.1206(c)(8)(iv)(D))
 - (ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9))
 - (I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i))
 - (A) The PMDS must be certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligrams per actual cubic meter unless the Permittee demonstrates, under 40 CFR Part 63.1209(g)(1), that a higher detection limit would routinely detect particulate matter loadings during normal operations (40 CFR 63.1206(c)(9)(i)(A));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i)) (continued)

(B) The particulate matter detector shall provide output of relative or absolute particulate matter loadings (40 CFR 63.1206(c)(9)(i)(B));

(C) The PMDS shall be equipped with an alarm system that will sound an audible alarm when an increase in relative or absolute particulate loadings is detected over the set-point (40 CFR 63.1206(c)(9)(i)(C));

(D) The Permittee must install, operate, and maintain the PMDS in a manner consistent with the provisions of 40 CFR Part 63.1209(c)(9) and available written guidance from the U.S. Environmental Protection Agency or, in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, maintenance and quality assurance of the system. (40 CFR 63.1206(c)(9)(i)(D))

I. Set-points established without extrapolation. If you establish the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that will reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below those demonstrated during the comprehensive performance test. The Permittee's recommended quality assurance procedures may include periodic testing under as-found conditions (i.e., normal operations) to obtain additional PM concentration and PMDS response run pairs, as warranted. (40 CFR 63.1206(c)(9)(i)(D)(1))

II. Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that will reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the value that correlates to the alarm set-point. (40 CFR 63.1206(c)(9)(i)(D)(2))

(E) The Permittee must include procedures for installation, operation, maintenance, and quality assurance of the PMDS in the site-specific continuous monitoring system test plan required under 40 CFR Parts 63.1207(e) and 63.8(e)(3) (40 CFR 63.1206(c)(9)(i)(E));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)
 - (I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i)) (continued)
 - (F) Where multiple detectors are required to monitor multiple control devices, the system's instrumentation and alarm system may be shared among the detectors. (40 CFR 63.1206(c)(9)(i)(F))
 - (G) The Permittee must establish the alarm set-point as a 6-hour rolling average as provided by 40 CFR Parts 63.1206(c)(9)(ii), (c)(9)(iii), and (c)(9)(iv) (40 CFR 63.1206(c)(9)(i)(G));
 - (H) The Permittee's PMDS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. The Permittee must update the 6-hour rolling average of the detector response each hour with a one-hour block average that is the average of the detector responses over each 15-minute block; and (40 CFR 63.1206(c)(9)(i)(H))
 - (I) If the Permittee exceeds the alarm set-point (or if your PMDS malfunctions), the Permittee must comply with the corrective measures under 40 CFR Part 63.1206(c)(9)(vii). (40 CFR 63.1206(c)(9)(i)(I))
 - (II) Establishing the Alarm Set-Point for Operations Under the Documentation of Compliance. The Permittee must establish the alarm set-point for operations under the Documentation of Compliance (i.e., after the compliance date but prior to submitting a Notification of Compliance subsequent to conducting the initial comprehensive performance test) of an existing source as stated under 40 CFR Parts 63.1206(c)(9)(ii)(A) through (D). (40 CFR 63.1206(c)(9)(ii))
 - (III) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii))
 - (A) Establishing the Initial Set-Point Without Extrapolation. (40 CFR 63.1206(c)(9)(iii)(A))
 - I. If the Permittee establishes the initial alarm set-point without extrapolation, the alarm set-point is the average of the test run averages of the PMDS response during the runs of the comprehensive performance test that document compliance with the PM emission standard. (40 CFR 63.1206(c)(9)(iii)(A)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)
 - (II) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii)) (continued)
 - (A) Establishing the Initial Set-Point Without Extrapolation. (40 CFR 63.1206(c)(9)(iii)(A)) (continued)
 - II. During the comprehensive performance test, the Permittee may simulate PM emission concentrations at the upper end of the range of normal operations by means including feeding high levels of ash and detuning the emission control equipment. (40 CFR 63.1206(c)(9)(iii)(A)(2))
 - (B) Establishing the Initial Set-point by Extrapolation. The Permittee may extrapolate the particulate matter detector response to establish the alarm set-point under the procedures (40 CFR 63.1206(c)(9)(iii)(B)):
 - I. The Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the procedures the Permittee will use to establish an approximate correlation curve using the three pairs of 40 CFR Part 60 Appendix A-3 Method 5 or 5I data and PMDS data from the comprehensive performance test, the data pairs used to establish the correlation curve for the Documentation of Compliance under 40 CFR Part 63.1206(c)(9)(ii), and additional data pairs, as warranted. (40 CFR 63.1206(c)(9)(iii)(B)(1))
 - II. The Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the Permittee's determination of whether multiple correlation curves are needed considering the design and operation of the Permittee's combustor and PMDS. If so, the Permittee must recommend the number of data pairs needed to establish those correlation curves and how the data will be obtained. (40 CFR 63.1206(c)(9)(iii)(B)(2))
 - III. During the comprehensive performance test, The Permittee may simulate PM emission concentrations at the upper end of the range of normal operations by means including feeding high levels of ash and detuning the emission control equipment. (40 CFR 63.1206(c)(9)(iii)(B)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)
 - (II) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii)) (continued)
 - (B) Establishing the Initial Set-point by Extrapolation. The Permittee may extrapolate the particulate matter detector response to establish the alarm set-point under the procedures (40 CFR 63.1206(c)(9)(iii)(B)):
 - IV. Data obtained up to 60 months prior to the comprehensive performance test may be used provided that the design and operation of the combustor or PMDS has not changed in a manner that may adversely affect the correlation of PM concentrations and PMDS response. (40 CFR 63.1206(c)(9)(iii)(B)(4))
 - V. The Permittee may include a zero point correlation value. To establish a zero point, the Permittee must follow the procedures under 40 CFR Part 63.1206(c)(9)(ii)(C)(2). (40 CFR 63.1206(c)(9)(iii)(B)(5))
 - VI. The Permittee must use a least-squares regression model to correlate PM concentrations to PMDS responses for data pairs. The Permittee may assume a linear regression model approximates the relationship between PM concentrations and PMDS responses. (40 CFR 63.1206(c)(9)(iii)(B)(6))
 - VII. The Permittee must establish the alarm set-point as the PMDS response that corresponds to a PM concentration that is 50% of the PM emission standard or 125% of the highest PM concentration used to develop the correlation, whichever is greater. The emission concentration used to extrapolate the PMDS response must not exceed the PM emission standard. (40 CFR 63.1206(c)(9)(iii)(B)(7))
 - (IV) Revising the Notification of Compliance Alarm Set-Point (40 CFR 63.1206(c)(9)(iv))
 - (A) Revising Set-Points Established without Extrapolation. If the Permittee establishes the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must establish a new alarm set-point in the Notification of Compliance following each comprehensive performance test as the average of the test run averages of the PMDS response during the runs of the comprehensive performance test that document compliance with the PM emission standard. (40 CFR 63.1206(c)(9)(iv)(A))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(IV) Revising the Notification of Compliance Alarm Set-Point (40 CFR 63.1206(c)(9)(iv)) (continued)

(B) Revising Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the procedures for periodically revising the alarm set-point, considering the additional data pairs obtained during periodic comprehensive performance tests and data pairs obtained from other tests, such as for quality assurance. (40 CFR 63.1206(c)(9)(iv)(B))

(V) Quality Assurance (40 CFR 63.1206(c)(9)(v))

(A) Set-Points Established without Extrapolation. If the Permittee establishes the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the average of the PM concentrations demonstrated during the comprehensive performance test. The Permittee's recommended quality assurance procedures may include periodic testing under as-found conditions (i.e., normal operations) to obtain additional PM concentration and PMDS response run pairs, as warranted. (40 CFR 63.1206(c)(9)(v)(A))

(B) Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the value that correlated to the alarm set-point. (40 CFR 63.1206(c)(9)(v)(B))

(VI) PMDS are used for Compliance Assurance only. For a PMDS for which the alarm set-point is established by extrapolation using a correlation curve under 40 CFR Parts 63.1206(c)(9)(ii), (c)(9)(iii)(B), and (c)(9)(iv)(B), an exceedance of the PMDS response that appears to correlate with a PM concentration that exceeds the PM emission standard is not by itself evidence that the standard has been exceeded. (40 CFR 63.1206(c)(9)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(VII) PMDS Corrective Measures Requirements. The operating and maintenance plan required by 40 CFR Part 63.1206(c)(7) must include a corrective measures plan that specifies the procedures the Permittee will follow in the case of a PMDS alarm or malfunction. The corrective measures plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm or PMDS malfunction as well as the corrective measures taken to correct the control device or PMDS malfunction or minimize emissions as specified below. Failure to initiate the corrective measures required by 40 CFR Part 63.1206(c)(9)(vi) is failure to ensure compliance with the emission standards in 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(9)(vii))

(A) The Permittee must initiate the procedures used to determine the cause of the alarm or PMDS malfunction within 30 minutes of the time the alarm first sounds or the PMDS malfunctions; and (40 CFR 63.1206(c)(9)(vii)(A))

(B) The Permittee must alleviate the cause of the alarm or the PMDS malfunction by taking the necessary corrective measure(s) which may include shutting down the combustor. (40 CFR 63.1206(c)(9)(vii)(B))

(VIII) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or when the PMDS is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and the revisions to the design, operation, or maintenance of the combustor, emission control device, or PMDS the Permittee is taking to minimize exceedances. To document compliance with this requirement (40 CFR 63.1206(c)(9)(viii)):

(A) The Permittee must keep records of the date, time, and duration of each alarm and PMDS malfunction, the time corrective action was initiated and completed, and a brief description of the cause of the alarm or PMDS malfunction and the corrective action taken (40 CFR 63.1206(c)(9)(viii)(A));

(B) The Permittee must record the percent of the operating time during each 6-month period that the alarm sounds and the PMDS malfunctions (40 CFR 63.1206(c)(9)(viii)(B));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(VIII) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or when the PMDS is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and the revisions to the design, operation, or maintenance of the combustor, emission control device, or PMDS the Permittee is taking to minimize exceedances. To document compliance with this requirement (40 CFR 63.1206(c)(9)(viii)) (continued):

(C) If inspection of the emission control device demonstrates that no corrective action is required, then no alarm time is counted; and (40 CFR 63.1206(c)(9)(viii)(C))

(D) If corrective action to the emission control device is required, each alarm shall be counted as a minimum of 1 hour. Each PMDS malfunction shall also be counted as a minimum of 1 hour. (40 CFR 63.1206(c)(9)(viii)(D))

(3) Performance Testing Requirements (40 CFR 63.1207)

The Permittee shall follow the performance testing requirements under 40 CFR Part 63.1207 as applicable.

(4) Test Methods (40 CFR 63.1208)

The Permittee shall follow the test methods under 40 CFR Part 63.1208 as applicable.

(5) Monitoring Requirements (40 CFR 63.1209)

(a) Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS). (40 CFR 63.1209(a))

(i) CEMS & COMS Pollutant Types (40 CFR 63.1209(a)(1))

(I) The Permittee must use either a carbon monoxide or hydrocarbon CEMS to demonstrate and monitor compliance with the carbon monoxide and hydrocarbon standard under 40 CFR Part 63 Subpart EEE. The Permittee must also use an oxygen CEMS to continuously correct the carbon monoxide or hydrocarbon level to 7 percent oxygen. (40 CFR Part 63.1209(a)(1)(i))

(II) COMS Requirements (40 CFR 63.1209 (a)(1)(ii))

(A) The Permittee must maintain and operate each COMS in accordance with the requirements of 40 CFR Part 63.8(c) except for the requirements under 40 CFR Part 63.8(c)(3). The requirements of 40 CFR Part 63.1211(c) shall be complied with instead of 40 CFR Part 63.8(c)(3); and (40 CFR 63.1209 (a)(1)(ii)(C))

(B) Compliance is based on a six-minute block average. (40 CFR 63.1209 (a)(1)(ii)(D))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).* (40 CFR 63.1209(a)) (continued)

(i) *CEMS & COMS Pollutant Types* (40 CFR 63.1209(a)(1)) (continued)

(III) The Permittee must install, calibrate, maintain, and operate a particulate matter CEMS to demonstrate and monitor compliance with the particulate matter standards under 40 CFR Part 63 Subpart EEE. However, compliance with the requirements in this section to install, calibrate, maintain and operate the PM CEMS is not required until such time that the Agency promulgates all performance specifications and operational requirements applicable to PM CEMS. (40 CFR 63.1209 (a)(1)(iii))

(ii) *Performance Specifications.* The Permittee must install, calibrate, maintain, and continuously operate the CEMS and COMS in compliance with the quality assurance procedures provided in the appendix to 40 CFR Part 63 Subpart EEE and Performance Specifications 1 (opacity), 4B (carbon monoxide and oxygen), and 8A (hydrocarbons) in 40 CFR Part 60 Appendix B. (40 CFR Part 63.1209(a)(2))

(iii) *Carbon Monoxide Readings Exceeding the Span.* (40 CFR 63.1209(a)(3))

(I) Except as provided by 40 CFR Part 63.1209(a)(3)(ii), if a carbon monoxide CEMS detects a response that results in a one-minute average at or above the 3,000 ppmv span level required by Performance Specification 4B in 40 CFR Part 60 Appendix B, part 60, the one-minute average must be recorded as 10,000 ppmv. The one-minute 10,000 ppmv value must be used for calculating the hourly rolling average carbon monoxide level. (40 CFR 63.1209(a)(3)(i))

(II) Carbon monoxide CEMS that use a span value of 10,000 ppmv when one-minute carbon monoxide levels are equal to or exceed 3,000 ppmv are not subject to 40 CFR Part 63.1209(a)(3)(i). Carbon monoxide CEMS that use a span value of 10,000 are subject to the same CEMS performance and equipment specifications when operating in the range of 3,000 ppmv to 10,000 ppmv that are provided by Performance Specification 4B for other carbon monoxide CEMS, except (40 CFR 63.1209(a)(3)(ii)):

(A) Calibration drift must be less than 300 ppmv; and (40 CFR 63.1209(a)(3)(ii)(A))

(B) Calibration error must be less than 500 ppmv. (40 CFR 63.1209(a)(3)(ii)(B))

(iv) *Hydrocarbon Readings Exceeding the Span.* (40 CFR 63.1209(a)(4))

(I) Except as provided by 40 CFR Part 63.1209(a)(4)(ii), if a hydrocarbon CEMS detects a response that results in a one-minute average at or above the 100 ppmv span level required by Performance Specification 8A in 40 CFR Part 60 Appendix B the one-minute average must be recorded as 500 ppmv. The one-minute 500 ppmv value must be used for calculating the hourly rolling average HC level. (40 CFR 63.1209(a)(4)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (5) Monitoring Requirements (40 CFR 63.1209) (continued)
 - (a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS)*. (40 CFR 63.1209(a)) (continued)
 - (iv) *Hydrocarbon Readings Exceeding the Span*. (40 CFR 63.1209(a)(4)) (continued)
 - (II) Hydrocarbon CEMS that use a span value of 500 ppmv when one-minute hydrocarbon levels are equal to or exceed 100 ppmv are not subject to 40 CFR Part 63.1209(a)(4)(i). Hydrocarbon CEMS that use a span value of 500 ppmv are subject to the same CEMS performance and equipment specifications when operating in the range of 100 ppmv to 500 ppmv that are provided by Performance Specification 8A for other hydrocarbon CEMS, except those specified under 40 CFR Parts 63.1209(a)(4)(ii)(A) through (E). (40 CFR 63.1209(a)(4)(ii))
 - (A) The zero and high-level calibration gas must have a hydrocarbon level of between 0 and 100 ppmv, and between 250 and 450 ppmv, respectively (40 CFR 63.1209(a)(4)(ii)(A));
 - (B) The strip chart recorder, computer, or digital recorder must be capable of recording all readings within the CEM measurement range and must have a resolution of 2.5 ppmv (40 CFR 63.1209(a)(4)(ii)(B));
 - (C) The CEMS calibration must not differ by more than ± 15 ppmv after each 24-hour period of the seven day test at both zero and high levels (40 CFR 63.1209(a)(4)(ii)(C));
 - (D) The calibration error must be no greater than 25 ppmv; and (40 CFR 63.1209(a)(4)(ii)(D))
 - (E) The zero level, mid-level, and high level calibration gas used to determine calibration error must have a hydrocarbon level of 0-200 ppmv, 150-200 ppmv, and 350-400 ppmv, respectively. (40 CFR 63.1209(a)(4)(ii)(E))
 - (v) *Petitions to Use CEMS for Other Standards*. The Permittee may petition the Administrator to use CEMS for compliance monitoring for particulate matter, mercury, semivolatile metals, low volatile metals, and hydrogen chloride and chlorine gas under 40 CFR Part 63.8(f) in lieu of compliance with the corresponding operating parameter limits under 40 CFR Part 63.1209. (40 CFR 63.1209(a)(5))
 - (vi) *Calculation of Rolling Averages* (40 CFR 63.1209(a)(6))
 - (I) *Calculation of Rolling Averages Initially*. The carbon monoxide or hydrocarbon CEMS must begin recording one-minute average values by 12:01 a.m. and hourly rolling average values by 1:01 a.m., when 60 one-minute values will be available for calculating the initial hourly rolling average for those sources that come into compliance on the regulatory compliance date. Sources that elect to come into compliance before the regulatory compliance date must begin recording one-minute and hourly rolling average values within 60 seconds and 60 minutes (when 60 one-minute values will be available for calculating the initial hourly rolling average), respectively, from the time at which compliance begins. (40 CFR 63.1209(a)(6)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).* (40 CFR 63.1209(a)) (continued)

(vi) *Calculation of Rolling Averages* (40 CFR 63.1209(a)(6)) (continued)

(II) *Calculation of Rolling Averages Upon Intermittent Operations.* The Permittee must ignore periods of time when one-minute values are not available for calculating the hourly rolling average. When one-minute values become available again, the first one-minute value is added to the previous 59 values to calculate the hourly rolling average. (40 CFR 63.1209(a)(6)(ii))

(III) *Calculation of Rolling Averages when the Hazardous Waste Feed is Cutoff.* (40 CFR 63.1209(a)(6)(iii))

(A) Except as provided by 40 CFR Part 63.1209(a)(6)(iii)(B), the Permittee must continue monitoring carbon monoxide and hydrocarbons when the hazardous waste feed is cutoff if the source is operating. The Permittee must not resume feeding hazardous waste if the emission levels exceed the standard. (40 CFR 63.1209(a)(6)(iii)(A))

(B) The Permittee is not subject to the CEMS requirements of 40 CFR Part 63 Subpart EEE during periods of time the Permittee meets the requirements of 40 CFR Part 63.1206(b)(1)(ii) (compliance with emissions standards for nonhazardous waste burning sources when the Permittee is not burning hazardous waste). (40 CFR 63.1209(a)(6)(iii)(B))

(vii) *Operating Parameter Limits for Hydrocarbons.* If the Permittee elects to comply with the carbon monoxide and hydrocarbon emission standard by continuously monitoring carbon monoxide with a CEMS, the Permittee must demonstrate that hydrocarbon emissions during the comprehensive performance test do not exceed the hydrocarbon emissions standard. In addition, the limits the Permittee establishes on the destruction and removal efficiency (DRE) operating parameters required under 40 CFR Part 63.1209(j) also ensure that the Permittee maintains compliance with the hydrocarbon emission standard. If the Permittee does not conduct the hydrocarbon demonstration and DRE tests concurrently, the Permittee must establish separate operating parameter limits under 40 CFR Part 63.1209(j) based on each test and the more restrictive of the operating parameter limits applies. (40 CFR 63.1209(a)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(b) Other Continuous Monitoring Systems (CMS). (40 CFR 63.1209(b))

- (i) The Permittee must use CMS (e.g., thermocouples, pressure transducers, flow meters) to document compliance with the applicable operating parameter limits under 40 CFR Part 63.1209. (40 CFR 63.1209(b)(1))
- (ii) The Permittee must install and operate continuous monitoring systems other than CEMS in conformance with 40 CFR Part 63.8(c)(3) that requires the Permittee, at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system (40 CFR 63.1209(b)(2)):
- (iii) CMS must sample the regulated parameter without interruption and evaluate the detector response at least once each 15 seconds, and compute and record the average values at least every 60 seconds. (40 CFR 63.1209(b)(3))
- (iv) The span of the non-CEMS CMS detector must not be exceeded. The Permittee must interlock the span limits into the automatic waste feed cutoff system required by 40 CFR Part 63.1206(c)(3). (40 CFR 63.1209(b)(4))
- (v) The Permittee shall follow the *Calculation of Rolling Averages* requirements under 40 CFR Parts 63.1209(b)(5)(i) through (iii). (40 CFR 63.1209(b)(5))

(c) Analysis of Feedstreams (40 CFR 63.1209(c))

- (i) *General*. Prior to feeding the material, The Permittee must obtain an analysis of each feedstream that is sufficient to document compliance with the applicable feedrate limits provided by 40 CFR Part 63.1209. (40 CFR 63.1209(c)(1))
- (ii) *Feedstream Analysis Plan*. The Permittee must develop and implement a feedstream analysis plan and record it in the operating record. The plan must specify at a minimum those listed under 40 CFR Parts 63.1209(c)(2)(i) through (vi). (40 CFR 63.1209(c)(2))
- (iii) *Review and Approval of Analysis Plan*. The Permittee must submit the feedstream analysis plan to the Administrator for review and approval, if requested. (40 CFR 63.1209(c)(3))
- (iv) *Compliance with Feedrate Limits*. To comply with the applicable feedrate limits of 40 CFR Part 63.1209, the Permittee must monitor and record feedrates as described under 40 CFR Parts 63.1209(c)(4)(i) through (iii). (40 CFR 63.1209(c)(4))
- (v) *Waiver of Monitoring of Constituents in Certain Feedstreams*. The Permittee is not required to monitor levels of metals or chlorine in the following feedstreams to document compliance with the feedrate limits under this section provided that the Permittee documents in the comprehensive performance test plan the expected levels of the constituent in the feedstream and account for those assumed feedrate levels in documenting compliance with feedrate limits: natural gas, process air, and feedstreams from vapor recovery systems. (40 CFR 63.1209(c)(5))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (5) Monitoring Requirements (40 CFR 63.1209) (continued)
 - (d) Performance Evaluations. (40 CFR 63.1209(d))
 - (i) The requirements of 40 CFR Parts 63.8(d) (Quality control program) and (e) (Performance evaluation of continuous monitoring systems) apply, except that the Permittee must conduct performance evaluations of components of the CMS under the frequency and procedures (for example, submittal of performance evaluation test plan for review and approval) applicable to performance tests as provided by 40 CFR Part 63.1207. (40 CFR 63.1209(d)(1))
 - (ii) The Permittee must comply with the quality assurance procedures for CEMS prescribed in the appendix to 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(d)(2))
 - (e) Conduct of Monitoring. The provisions of 40 CFR Part 63.8(b) apply. (40 CFR 63.1209(e))
 - (f) Operation and Maintenance of Continuous Monitoring Systems. The provisions of 40 CFR Part 63.8(c) apply except (40 CFR 63.1209(f)):
 - (i) 40 CFR Part 63.8(c)(3). The requirements of 40 CFR Part 63.1211(c), that requires CMSs to be installed, calibrated, and operational on the compliance date, shall be complied with instead of 40 CFR Part 63.8(c)(3) (40 CFR 63.1209(f)(1));
 - (ii) 40 CFR Part 63.8(c)(4)(ii). The performance specifications for carbon monoxide, hydrocarbon, and oxygen CEMSs in 40 CFR Part 60 Subpart B that requires detectors to measure the sample concentration at least once every 15 seconds for calculating an average emission rate once every 60 seconds shall be complied with instead of 40 CFR Part 63.8(c)(4)(ii); and (40 CFR 63.1209(f)(2))
 - (iii) 40 CFR Parts 63.8(c)(4)(i), (c)(5), and (c)(7)(i)(C) pertaining to COMS apply only to Permittees of hazardous waste burning cement kilns. (40 CFR 63.1209(f)(3))
 - (g) Alternative Monitoring Requirements other than Continuous Emissions Monitoring Systems (CEMS) (40 CFR 63.1209(g))
 - (i) The Permittee may request the use of *Alternatives to Operating Parameter Monitoring Requirements* by following the steps under 40 CFR Parts 63.1209(g)(1)(i) through (iv). (40 CFR 63.1209(g)(1))
 - (ii) Administrator's Discretion to Specify Additional or Alternative Requirements. The Administrator may determine on a case-by-case basis at any time (e.g., during review of the comprehensive performance test plan, during compliance certification review) that the Permittee may need to limit additional or alternative operating parameters (e.g., opacity in addition to or in lieu of operating parameter limits on the particulate matter control device) or that alternative approaches to establish limits on operating parameters may be necessary to document compliance with the emission standards of this 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(g)(2))
 - (h) Reduction of Monitoring Data. The provisions of 40 CFR Part 63.8(g) apply. (40 CFR 63.1209(h))
 - (i) When an Operating Parameter is Applicable to Multiple Standards. 40 CFR Parts 63.1209(j) through (p) require the Permittee to establish limits on operating parameters based on comprehensive performance testing to ensure you maintain compliance with the emission standards of 40 CFR Part 63 Subpart EEE. For several parameters, the Permittee must establish a limit for the parameter to ensure compliance with more than one emission standard. An example is a limit on minimum combustion chamber temperature to ensure compliance with both the DRE standard of 40 CFR Part 63.1209(j) and the dioxin/furan standard of 40 CFR Part 63.1209(k). If the performance tests for such standards are not performed simultaneously, the most stringent limit for a parameter derived from independent performance tests applies. (40 CFR 63.1209(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(j) *DRE.* To remain in compliance with the destruction and removal efficiency (DRE) standard, the Permittee must establish operating limits during the comprehensive performance test (or during a previous DRE test under provisions of 40 CFR Part 63.1206(b)(7)) for the following parameters, unless the limits are based on manufacturer specifications, and comply with those limits at all times that hazardous waste remains in the combustion chamber (i.e., the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated) (40 CFR 63.1209(j));

(i) *Minimum Combustion Chamber Temperature.* (40 CFR 63.1209(j)(1))

(I) The Permittee must measure the temperature of each combustion chamber at a location that best represents, as practicable, the bulk gas temperature in the combustion zone. The Permittee must document the temperature measurement location in the test plan the Permittee submits under 40 CFR Part 63.1207(e) (40 CFR 63.1209(j)(1)(i));

(II) The Permittee must establish a minimum hourly rolling average limit as the average of the test run averages (40 CFR 63.1209(j)(1)(ii));

(ii) *Maximum Flue Gas Flowrate or Production Rate.* (40 CFR 63.1209(j)(2))

(I) As an indicator of gas residence time in the control device, the Permittee must establish and comply with a limit on the maximum flue gas flowrate, the maximum production rate, or another parameter that the Permittee documents in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each run. (40 CFR 63.1209(j)(2)(i))

(II) The Permittee must comply with this limit on a hourly rolling average basis; (40 CFR 63.1209(j)(2)(ii))

(iii) *Maximum Hazardous Waste Feedrate.* (40 CFR 63.1209(j)(3))

(I) The Permittee must establish limits on the maximum pumpable and total (i.e., pumpable and nonpumpable) hazardous waste feedrate for each location where hazardous waste is fed. (40 CFR 63.1209(j)(3)(i))

(II) The Permittee must establish the limits as the average of the maximum hourly rolling averages for each run. (40 CFR 63.1209(j)(3)(ii))

(III) The Permittee must comply with the feedrate limit(s) on a hourly rolling average basis; (40 CFR 63.1209(j)(3)(iii))

(iv) *Operation of Waste Firing System.* The Permittee must specify operating parameters and limits to ensure that good operation of each hazardous waste firing system is maintained. (40 CFR 63.1209(j)(4))

(k) *Dioxins and Furans.* The Permittee must comply with the dioxin and furans emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(k)(1) through (9). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(k))

(l) *Mercury.* The Permittee must comply with the mercury emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(l)(1) through (4). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(l))

(m) *Particulate Matter.* The Permittee must comply with the particulate matter emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(m)(1) through (3). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(m))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

- (n) *Semivolatile Metals and Low Volatility Metals.* The Permittee must comply with the semivolatile metal (cadmium and lead) and low volatile metal (arsenic, beryllium, and chromium) emission standards by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(n)(1) through (5). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(n))
- (o) *Hydrogen Chloride and Chlorine Gas.* The Permittee must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(o)(1) through (4). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(o))
- (p) *Maximum Combustion Chamber Pressure.* If the Permittee complies with the requirements for combustion system leaks under 40 CFR Part 63.1206(c)(5) by maintaining the maximum combustion chamber zone pressure lower than ambient pressure to prevent combustion systems leaks from hazardous waste combustion, the Permittee must perform instantaneous monitoring of pressure and the automatic waste feed cutoff system must be engaged when negative pressure is not adequately maintained. (40 CFR 63.1209(p))
- (q) *Operating Under Different Modes of Operation.* If the Permittee operates under different modes of operation, the Permittee must establish operating parameter limits for each mode. The Permittee must document in the operating record when you change a mode of operation and begin complying with the operating limits for an alternative mode of operation. (40 CFR 63.1209(q))
 - (i) Operating under otherwise applicable standards after the hazardous waste residence time has transpired. As provided by 40 CFR Part 63.1206(b)(1)(ii), the Permittee may operate under otherwise applicable requirements promulgated under sections 112 and 129 of the Clean Air Act in lieu of the substantive requirements of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(q)(1))
 - (I) The otherwise applicable requirements promulgated under sections 112 and 129 of the Clean Air Act are applicable requirements under 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(q)(1)(i))
 - (II) The Permittee must specify (e.g., by reference) the otherwise applicable requirements as a mode of operation in the Permittee's Documentation of Compliance under 40 CFR Part 63.1211(c), the Permittee's Notification of Compliance under 40 CFR Part 63.1207(j), and the Permittee's title V permit application. These requirements include the otherwise applicable requirements governing emission standards, monitoring and compliance, and notification, reporting, and recordkeeping. (40 CFR 63.1209(q)(1)(ii))
 - (ii) *Calculating Rolling Averages Under Different Modes of Operation.* When the Permittee transitions to a different mode of operation, the Permittee must calculate rolling averages as follows (40 CFR 63.1209(q)(2)):
 - (I) *Retrieval Approach.* Calculate rolling averages anew using the continuous monitoring system values previously recorded for that mode of operation (i.e., the Permittee ignores continuous monitoring system values subsequently recorded under other modes of operation when the Permittee transitions back to a mode of operation); or (40 CFR 63.1209(q)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(q) *Operating Under Different Modes of Operation.* If the Permittee operates under different modes of operation, the Permittee must establish operating parameter limits for each mode. The Permittee must document in the operating record when you change a mode of operation and begin complying with the operating limits for an alternative mode of operation. (40 CFR 63.1209(q)) (continued)

(ii) *Calculating Rolling Averages Under Different Modes of Operation.* When the Permittee transitions to a different mode of operation, the Permittee must calculate rolling averages as follows (40 CFR 63.1209(q)(2)) (continued):

(II) *Start Anew.* Calculate rolling averages anew without considering previous recordings. (40 CFR 63.1209(q)(2)(ii))

(A) Rolling averages must be calculated as the average of the available one-minute values for the parameter until enough one-minute values are available to calculate hourly or 12-hour rolling averages, whichever is applicable to the parameter. (40 CFR 63.1209(q)(2)(ii)(A))

(B) The Permittee may not transition to a new mode of operation using this approach if the most recent operation in that mode resulted in an exceedance of an applicable emission standard measured with a CEMS or operating parameter limit prior to the hazardous waste residence time expiring; or (40 CFR 63.1209(q)(2)(ii)(B))

(III) *Seamless Transition.* Continue calculating rolling averages using data from the previous operating mode provided that both the operating limit and the averaging period for the parameter are the same for both modes of operation. (40 CFR 63.1209(q)(2)(iii))

(r) *Averaging Periods.* The averaging periods specified in 40 CFR Part 63.1209 for operating parameters are not-to-exceed averaging periods. The Permittee may elect to use shorter averaging periods. For example, the Permittee may elect to use a 1-hour rolling average rather than the 12-hour rolling average specified in 40 CFR Part 63.1209(l)(1)(i) for mercury. (40 CFR 63.1209(r))

(6) Notification Requirements (40 CFR 63.1210)

(a) *Summary of Requirements* (40 CFR 63.1210(a))

(i) The Permittee shall submit the notifications listed under 40 CFR Part 63.1210(a)(1) to the Administrator. The Permittee may also be required on a case-by-case basis to submit a feedstream analysis plan under 40 CFR Part 63.1209(c)(3). (40 CFR 63.1210(a)(1))

(ii) The Permittee shall submit the notifications listed under 40 CFR Part 1210(a)(2) to the Administrator if the Permittee requests or elects to comply with alternative requirements. (40 CFR 63.1210(a)(2))

(b) *Notification of Intent to Comply (NIC).* These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b))

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1));

(I) General Information (40 CFR 63.1210(b)(1)(i));

(A) The name and address of the Permittee and the source (40 CFR 63.1210(b)(1)(i)(A));

(B) Whether the source is a major or an area source (40 CFR 63.1210(b)(1)(i)(B));

(C) Waste minimization and emission control technique(s) being considered (40 CFR 63.1210(b)(1)(i)(C));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(b) *Notification of Intent to Comply (NIC)*. These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b))

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1)) (continued);

(I) General Information (40 CFR 63.1210(b)(1)(i)) (continued):

(D) Emission monitoring technique(s) the Permittee is considering (40 CFR 63.1210(b)(1)(i)(D));

(E) Waste minimization and emission control technique(s) effectiveness (40 CFR 63.1210(b)(1)(i)(E));

(F) A description of the evaluation criteria used or to be used to select waste minimization and/or emission control technique(s); and (40 CFR 63.1210(b)(1)(i)(F))

(G) A general description of how the Permittee intends to comply with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1210(b)(1)(i)(G))

(II) As applicable to each source, information on key activities and estimated dates for these activities that will bring the source into compliance with emission control requirements of 40 CFR Part 60 Subpart EEE. The Permittee must include all of the following key activities and dates in the Permittee's NIC (40 CFR 63.1210(b)(1)(ii)):

(A) The dates by which the Permittee anticipates the Permittee will develop engineering designs for emission control systems or process changes for emissions (40 CFR 63.1210(b)(1)(ii)(A));

(B) The date by which the Permittee anticipates the Permittee will commit internal or external resources for installing emission control systems or making process changes for emission control, or the date by which the Permittee will issue orders for the purchase of component parts to accomplish emission control or process changes. (40 CFR 63.1210(b)(1)(ii)(B));

(C) The date by which the Permittee anticipates the Permittee will submit construction applications (40 CFR 63.1210(b)(1)(ii)(C));

(D) The date by which the Permittee anticipates the Permittee will initiate on-site construction, installation of emission control equipment, or process change (40 CFR 63.1210(b)(1)(ii)(D));

(E) The date by which the Permittee anticipates the Permittee will complete on-site construction, installation of emission control equipment, or process change; and (40 CFR 63.1210(b)(1)(ii)(E))

(F) The date by which you anticipate the Permittee will achieve final compliance. The individual dates and milestones listed in 40 CFR Parts 63.1210(b)(1)(ii)(A) through (F) as part of the NIC are not requirements and therefore are not enforceable deadlines; the requirements of 40 CFR Parts 1210(b)(1)(ii)(A) through (F) must be included as part of the NIC only to inform the public of how the Permittee intends to comply with the emission standards of this 40 CFR Part 63 Subpart EEE. (40 CFR 63.1210(b)(1)(ii)(F))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(b) *Notification of Intent to Comply (NIC)*. These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b)) (continued)

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1)) (continued);

(III) A summary of the public meeting required under 40 CFR Part 63.1210(c); (40 CFR 63.1210(b)(1)(iii))

(IV) If the Permittee intends to cease burning hazardous waste prior to or on the compliance date, the requirements of 40 CFR Parts 63.1210(b)(1)(ii) and (b)(1)(iii) do not apply. The Permittee must include in the NIC a schedule of key dates for the steps to be taken to stop hazardous waste activity at your combustion unit. Key dates include the date for submittal of RCRA closure documents required under 40 CFR Part 63 Subpart G, Part 264 or Subpart G, Part 265. (40 CFR 63.1210(b)(1)(iv))

(ii) The Permittee must make a draft of the NIC available for public review no later than 30 days prior to the public meeting required under 40 CFR Part 63.1210(c)(1) or no later than 9 months after the effective date of the rule if the Permittee intends to cease burning hazardous waste prior to or on the compliance date. (40 CFR 63.1210(b)(2))

(iii) The Permittee must submit the final NIC to the Administrator (40 CFR 63.1210(b)(3)):

(I) *Existing Units.* No later than one year following the effective date of the emission standards of 40 CFR Part 63 Subpart EEE; or (40 CFR 63.1210(b)(3)(i))

(c) *NIC Public Meeting and Notice.* (40 CFR 63.1210(c))

(i) Prior to the submission of the NIC to the permitting agency and (40 CFR 63.1210(c)(1)):

(I) *New Units.* No earlier than thirty (30) days following notice of the informal public meeting, the Permittee must hold at least one informal meeting with the public to discuss the anticipated activities described in the draft NIC for achieving compliance with the emission standards of 40 CFR Part 63 Subpart EEE. The Permittee must post a sign-in sheet or otherwise provide a voluntary opportunity for attendees to provide their names and addresses. (40 CFR 63.1210(c)(2))

(ii) The Permittee must submit a summary of the meeting, along with the list of attendees and their addresses developed under 40 CFR Part 63.1210(b)(1), and copies of any written comments or materials submitted at the meeting, to the Administrator as part of the final NIC, in accordance with 40 CFR Part 63.1210(b)(1)(iii) (40 CFR 63.1210(c)(2));

(iii) The Permittee must provide public notice of the NIC meeting at least 30 days prior to the meeting and the Permittee must maintain, and provide to the Administrator upon request, documentation of the notice. The Permittee must provide public notice in all of the forms listed under 40 CFR Parts 63.1210(c)(3)(i) through (iv). (40 CFR 63.1210(c)(3))

(iv) The Permittee must include all of the parameters listed under 40 CFR Parts 63.1210(c)(4)(i) through (iv) in the notices required under 40 CFR Part 63.1210(c)(3). (40 CFR 63.1210(c)(4))

(v) The requirements of 40 CFR Part 63.1210(c) do not apply to sources that intend to cease burning hazardous waste prior to or on the compliance date. (40 CFR 63.1210(c)(5))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(d) Notification of Compliance. (40 CFR 63.1210(d))

(i) The Notification of Compliance status requirements of 40 CFR Part 63.9(h) apply, except that (40 CFR 63.1210(d)(1)):

(I) The notification is a Notification of Compliance, rather than compliance status (40 CFR 63.1210(d)(1)(i));

(II) The notification is required for the initial comprehensive performance test and each subsequent comprehensive and confirmatory performance test; and (40 CFR 63.1210(d)(1)(ii))

(III) The Permittee must postmark the notification before the close of business on the 90th day following completion of relevant compliance demonstration activity specified in 40 CFR Part 63 Subpart EEE rather than the 60th day as required by 40 CFR Part 63.9(h)(2)(ii). (40 CFR 63.1210(d)(1)(iii))

(ii) Upon postmark of the Notification of Compliance, the operating parameter limits identified in the Notification of Compliance, as applicable, shall be complied with, the limits identified in the Documentation of Compliance or a previous Notification of Compliance are no longer applicable. (40 CFR 63.1210(d)(2))

(iii) The Notification of Compliance requirements of 40 CFR Part 63.1207(j) also apply. (40 CFR 63.1210(d)(3))

(7) Recordkeeping and Reporting Requirements (40 CFR 63.1211)

(a) Summary of Reporting Requirements. The Permittee shall submit the reports listed under 40 CFR Part 63.1211(a) to the Administrator. (40 CFR 63.1211(a))

(b) Summary of Recordkeeping Requirements. The Permittee shall retain the document, data, or information listed under 40 CFR Part 1211(b) in the operating record. (40 CFR 63.1211(b))

(c) Documentation and Compliance. (40 CFR 63.1211(c))

(i) By the compliance date, the Permittee must develop and include in the operating record a Documentation of Compliance. The Permittee is not subject to this requirement, however, if the Permittee submits a Notification of Compliance under 40 CFR Part 63.1207(j) prior to the compliance date. Upon inclusion of the Documentation of Compliance in the operating record, hazardous waste burning incinerators, cement kilns, and lightweight aggregate kilns regulated under the interim standards of 40 CFR Parts 63.1203, 63.1204, and 63.1205 are no longer subject to compliance with the previously applicable Notification of Compliance. (40 CFR 63.1211(c)(1))

(ii) The Documentation of Compliance must identify the applicable emission standards under 40 CFR Part 63 Subpart EEE and the limits on the operating parameters under 40 CFR Part 63.1209 that will ensure compliance with those emission standards. (40 CFR 63.1211(c)(2))

(iii) The Permittee must include a signed and dated certification in the Documentation of Compliance that (40 CFR 63.1211(c)(3)):

(I) Required CEMs and CMS are installed, calibrated, and continuously operating in compliance with the requirements of this subpart; and (40 CFR 63.1211(c)(3)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(7) Recordkeeping and Reporting Requirements (40 CFR 63.1211) (continued)

(c) Documentation and Compliance. (40 CFR 63.1211(c)) (continued)

(iii) The Permittee must include a signed and dated certification in the Documentation of Compliance that (40 CFR 63.1211(c)(3)) (continued):

(II) Based on an engineering evaluation prepared under the Permittee's direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information and supporting documentation, and considering at a minimum the design, operation, and maintenance characteristics of the combustor and emissions control equipment, the types, quantities, and characteristics of feedstreams, and available emissions data (40 CFR 63.1211(c)(3)(i)):

(A) The Permittee is in compliance with the emission standards of 40 CFR Part 63 Subpart EEE; and (40 CFR 63.1211(c)(3)(i)(A))

(B) The limits on the operating parameters under 40 CFR Part 63.1209 ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1211(c)(3)(i)(B))

(iv) The Permittee must comply with the emission standards and operating parameter limits specified in the Documentation of Compliance. (40 CFR 63.1211(c)(4))

(d) Data Compression. The Permittee may submit a written request to the Administrator for approval to use data compression techniques to record data from CMS, including CEMS, on a frequency less than that required by 40 CFR Part 63.1209. The Permittee must submit the request for review and approval as part of the comprehensive performance test plan. (40 CFR 63.1211(d))

(i) The Permittee must record a data value at least once each ten minutes. (40 CFR 63.1211(d)(1))

(ii) For each CEMS or operating parameter for which the Permittee requests to use data compression techniques, the Permittee must recommend (40 CFR 63.1211(d)(2)):

(I) A fluctuation limit that defines the maximum permissible deviation of a new data value from a previously generated value without requiring the Permittee to revert to recording each one-minute value. (40 CFR 63.1211(d)(2)(i))

(A) If the Permittee exceeds a fluctuation limit, the Permittee must record each one-minute value for a period of time not less than ten minutes. (40 CFR 63.1211(d)(2)(i)(A))

(B) If neither the fluctuation limit nor the data compression limit are exceeded during that period of time, the Permittee may reinitiate recording data values on a frequency of at least once each ten minutes; and (40 CFR 63.1211(d)(2)(i)(B))

(II) A data compression limit defined as the closest level to an operating parameter limit or emission standard at which reduced data recording is allowed. (40 CFR 63.1211(d)(2)(ii))

(A) Within this level and the operating parameter limit or emission standard, the Permittee must record each one-minute average. (40 CFR 63.1211(d)(2)(ii)(A))

(B) The data compression limit should reflect a level at which the Permittee is unlikely to exceed the specific operating parameter limit or emission standard, considering its averaging period, with the addition of a new one-minute average. (40 CFR 63.1211(d)(2)(ii)(B))

(8) Other Requirements Pertaining to the NIC (40 CFR 63.1212)

The Permittee shall follow the other requirements pertaining to the NIC under 40 CFR Part 63.1212 as applicable. (40 CFR 63.1212)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(9) Replacement Standards for Hazardous Waste Incinerators (40 CFR 63.1219)

(a) *Emission Limits for New Sources.* The Permittee shall not discharge or cause combustion gases to be emitted into the atmosphere that contain (40 CFR 63.1219(b)):

(i) For Dioxins and Furans (40 CFR 63.1219(b)(1)):

(I) Dioxins and furans in excess of 0.20 ng TEQ/dscm corrected to 7 percent oxygen for sources not equipped with either a waste heat boiler or dry air pollution control system (40 CFR 63.1219(b)(1)(ii));

(II) A source equipped with a wet air pollution control system followed by a dry air pollution control system is not considered to be a dry air pollution control system, and a source equipped with a dry air pollution control system followed by a wet air pollution control system is considered to be a dry air pollution control system for purposes of this standard (40 CFR 63.1219(b)(1)(iii));

(ii) Mercury in excess of 8.1 µgm/dscm, corrected to 7 percent oxygen (40 CFR 63.1219(b)(2));

(iii) Cadmium and lead in excess of 10 µgm/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1219(b)(3));

(iv) Arsenic, beryllium, and chromium in excess of 23 µgm/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1219(b)(4));

(v) Carbon monoxide in excess of 100 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. If the Permittee elects to comply with this carbon monoxide standard rather than the hydrocarbon standard under 40 CFR Part 63.1219(b)(5)(ii), the Permittee must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by 40 CFR Part 63.1206(b)(7), hydrocarbons do not exceed 10 parts per million by volume during those runs, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane; or (40 CFR 63.1219(b)(5)(i))

(vi) Hydrogen chloride and chlorine gas in excess of 21 parts per million by volume, combined emissions, expressed as a chloride (Cl⁻) equivalent, dry basis and corrected to 7 percent oxygen; and (40 CFR 63.1219(b)(6))

(vii) Except as provided by 40 CFR Part 63.1219(e), particulate matter emissions in excess of 0.0016 gr/dscf corrected to 7 percent oxygen. (40 CFR 63.1219(b)(7))

(b) *Destruction and Removal Efficiency (DRE) Standard* (40 CFR 63.1219(c))

(i) 99.99% DRE. Except as provided in 40 CFR Part 63.1219(c)(2), the Permittee must achieve a destruction and removal efficiency (DRE) of 99.99% for each principle organic hazardous constituent (POHC) designated under 40 CFR Part 63.1219(c)(3). The Permittee must calculate DRE for each POHC from the following equation (40 CFR 63.1219(c)(1)):

$$DRE = [1 - (W_{out} / W_{in})] \times 100\%$$

Where

W_{in} = mass feedrate of one POHC in a waste feedstream; and

W_{out} = mass emission rate of the same POHC present in exhaust emissions prior to release to the atmosphere.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

Z. Emission Units S2.046 and S2.047 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(9) Replacement Standards for Hazardous Waste Incinerators (40 CFR 63.1219) (continued)

(b) Destruction and Removal Efficiency (DRE) Standard (40 CFR 63.1219(c)) (continued)

(ii) **99.9999% DRE.** If the Permittee burns the dioxin-listed hazardous wastes F020, F021, F022, F023, F026, or F027 (see 40 CFR Part 261.31), the Permittee must achieve a DRE of 99.9999% for each POHC that you designate under 40 CFR Part 63.1219(c)(3). The Permittee must demonstrate this DRE performance on POHCs that are more difficult to incinerate than tetra-, penta-, and hexachlorodibenzo-p-dioxins and dibenzofurans. The Permittee must use the equation in 40 CFR Part 63.1219(c)(1) to calculate DRE for each POHC. In addition, the Permittee must notify the Administrator of your intent to incinerate hazardous wastes F020, F021, F022, F023, F026, or F027. (40 CFR 63.1219(c)(2))

(iii) Principal Organic Hazardous Constituent (POHC). (40 CFR 63.1219(c)(3))

(I) The Permittee must treat each POHC in the waste feed that the Permittee specifies under 40 CFR Part 63.1219(c)(3)(ii) to the extent required by 40 CFR Parts 63.1219(c)(1) and (c)(2). (40 CFR 63.1219(c)(3)(i))

(II) The Permittee must specify one or more POHCs that are representative of the most difficult to destroy organic compounds in your hazardous waste feedstream. The Permittee must base this specification on the degree of difficulty of incineration of the organic constituents in the hazardous waste and on their concentration or mass in the hazardous waste feed, considering the results of hazardous waste analyses or other data and information. (40 CFR 63.1219(c)(3)(ii))

(c) **Significant Figures.** The emission limits provided by 40 CFR Parts 63.1219(a) and (b) are presented with two significant figures. Although the Permittee must perform intermediate calculations using at least three significant figures, the Permittee may round the resultant emission levels to two significant figures to document compliance. (40 CFR 63.1219(d))

(d) Alternative to the Particulate Matter Standard (40 CFR 63.1219(e))

(i) **General.** In lieu of complying with the particulate matter standards of this section, the Permittee may elect to comply with the following alternative metal emission control requirement (40 CFR 63.1219(e)(1)):

(ii) **Alternative Metal Emission Control Requirements for Existing Incinerators. (40 CFR 63.1219(e)(2))**

(I) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain cadmium, lead, and selenium in excess of 230 µgm/dscm, combined emissions, corrected to 7 percent oxygen; and, (40 CFR 63.1219(e)(2)(i))

(II) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain antimony, arsenic, beryllium, chromium, cobalt, manganese, and nickel in excess of 92 µgm/dscm, combined emissions, corrected to 7 percent oxygen. (40 CFR 63.1219(e)(2)(ii))

(iii) **Operating Limits.** Semivolatile and low volatile metal operating parameter limits must be established to ensure compliance with the alternative emission limitations described in 40 CFR Parts 63.1219(e)(2) and (e)(3) pursuant to 40 CFR Part 63.1209(n), except that semivolatile metal feedrate limits apply to lead, cadmium, and selenium, combined, and low volatile metal feedrate limits apply to arsenic, beryllium, chromium, antimony, cobalt, manganese, and nickel, combined. (40 CFR 63.1219(e)(4))

b. Continuous Emissions Monitoring System (CEMS) – 40 CFR Parts 60

The Permittee, upon issuance of this operating permit, shall comply with the CEMS requirements set forth in **Section V** of this operating permit.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AA. Emission Unit S2.048**

System 31 – Pangborn Blast Booth		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.048	Pangborn Blast Booth, Building 103-5	4,270,218	359,025

1. Air Pollution Control Equipment (NAC 445B.3405)

- a. Emissions from
- S2.048**
- shall be controlled by a
- Baghouse**
- .

Stack Height: 24.0 feet

Stack Diameter: 0.667 feet

Stack Temperature: Ambient

Exhaust Flow: 1,814.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)

- a. The maximum allowable throughput rate for
- S2.048**
- shall not exceed
- 16.0**
- tons of
- munitions**
- per hour, averaged over a calendar day, nor more than
- 33,280.0**
- tons per 12-month rolling period.

b. Hours(1) **S2.048** may operate a total of **24** hours per day.(2) **S2.048** may operate a total of **2,080** hours per year.3. Emission Limits (NAC 445B.305, NAC 445B.3405)The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.048** the following pollutants in excess of the following specified limits:

- The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.31** pounds per hour, nor more than **0.32** tons per 12-month rolling period.
- The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.31** pounds per hour, nor more than **0.32** tons per 12-month rolling period.
- The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.31** pounds per hour, nor more than **0.32** tons per 12-month rolling period.
- NAC 445B.22017 – The opacity from **S2.048** shall not equal or exceed **20** percent.
- NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.048** shall not exceed **26.3** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- Monitor and record the throughput for **S2.048** for each calendar day.
- Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
- Monitor and record the hours of operation for **S2.048** for each calendar day.
- Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AA. Emission Unit S2.048 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- f. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.048** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- g. Inspect the baghouse installed on **S2.048** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AB. Emission Units S2.049**

System 32 – Surface Coating Booth		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.049	Surface Coating Booth, Building 103-5	4,270,238	359,040

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.049** shall be controlled by **Water Curtains**.
 - b. Descriptive Stack Parameters
Stack Height: 15.0 feet
Stack Diameter: 1.50 feet
Stack Temperature: 69.5 °F
Exhaust Flow: 2,502.0 actual cubic feet per minute (acfm)
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **S2.049** shall not exceed **1,680.0** gallons of **coatings** per 12-month rolling period.
 - b. Hours
 - (1) **S2.049** may operate a total of **10** hours per day.
 - (2) **S2.049** may operate a total of **2,080** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.049** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.045** pounds per hour, nor more than **0.047** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.023** pounds per hour, nor more than **0.024** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.023** pounds per hour, nor more than **0.024** tons per 12-month rolling period.
 - d. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **4.85** pounds per hour, nor more than **5.04** tons per 12-month rolling period.
 - e. NAC 445B.22017 – The opacity from the **S2.049** shall not equal or exceed **20** percent.
 - f. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.049** shall not exceed **3.55** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

 - a. Monitor and record the throughput for **S2.049** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Monitor and record the hours of operation for **S2.049** for each calendar day.
 - e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AB. Emission Units S2.049 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- f. Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any VOC containing materials utilized in **S2.049** on a daily basis when operating.
- g. Record the total VOC emitted (based on VOC content), in pounds, from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.
- h. Conduct and record an observation of visible emissions (excluding water vapor) from the stack of **S2.049** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A.
- i. Inspect the **Water Curtains** installed on **S2.049** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition) and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AC. Emission Unit S2.052**

System 35 – 80 kW Kohler Emergency Diesel Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.052	Emergency Diesel Generator (80 kW; Manufactured by Kohler; Serial 358882; Year 2000)	4,267,671	355,840

1. Air Pollution Control Equipment (NAC 445B.3405)

- S2.052** has no add-on controls.
- Descriptive Stack Parameters
Stack Height: 6.00 feet
Stack Diameter: 0.25 feet
Stack Temperature: 500.0 °F

2. Operating Parameters (NAC 445B.3405)

- S2.052** may consume only **diesel**.
- The maximum allowable fuel consumption rate for **S2.052** shall not exceed **5.36 gallons** per hour, averaged over a calendar day, nor more than **536.5 gallons** per 12-month rolling period of non-emergency use.
- Hours
 - S2.052** may operate a total of **24** hours per day.
 - S2.052** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.052** the following pollutants in excess of the following specified limits:

- The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.23** pounds per hour, nor more than **0.012** tons per 12-month rolling period.
- The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.23** pounds per hour, nor more than **0.012** tons per 12-month rolling period.
- The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.23** pounds per hour, nor more than **0.012** tons per 12-month rolling period.
- The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.16** pounds per hour, nor more than **0.0080** tons per 12-month rolling period.
- The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **3.31** pounds per hour, nor more than **0.17** tons per 12-month rolling period.
- The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.71** pounds per hour, nor more than **0.036** tons per 12-month rolling period.
- The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.27** pounds per hour, nor more than **0.014** tons per 12-month rolling period.
- NAC 445B.22017 – The opacity from the **S2.052** shall not equal or exceed **20** percent.
- NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.052** shall not exceed **0.53** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AC. Emission Unit S2.052 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.052** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the total daily hours of operation for **S2.052** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.

5. Federal Requirements

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines

a. Emissions Limitations, Management Practices and Other Requirements (40 CFR 63.6603(a), Table 2d)

For each Emergency stationary CI RICE and black start stationary CI RICE, the Permittee must meet the following requirement, except during periods of startup:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

b. Fuel Requirements (40 CFR 63.6604)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 63.6604, 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) Cetane index or aromatic content as follows:
 - (a) A minimum cetane index of 40; or
 - (b) A maximum aromatic content of 35 volume percent.

c. Monitoring, Installation, Collection, Operation, Maintenance Requirements (40 CFR 63.6625)

- (1) The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop the Permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR 63.6625(e))
- (2) The Permittee must install a non-resettable hour meter if one is not already installed. (40 CFR 63.6625(f))
- (3) The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in **AC.5.a.** of this section. (40 CFR 63.6625(h))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AC. Emission Unit S2.052 (continued)

5. Federal Requirements (continued)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

c. Monitoring, Installation, Collection, Operation, Maintenance Requirements (40 CFR 63.6625) (continued)

(4) The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in **AC.5.a.(1)** of this section. The oil analysis must be performed at the same frequency specified for changing the oil in **AC.5.a.(1)** of this section. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. (40 CFR 63.6625(i))

d. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6)

- (1) The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in Subpart ZZZZ that apply at all times. (40 CFR Part 63.6605(a))
- (2) The Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR Part 63.6605(b))
- (3) Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in **AC.5.a.** of this section according to methods specified below: (40 CFR 63.6640(a), Table 6)
 - (a) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
 - (b) Develop and follow Permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AC. Emission Unit S2.052 (continued)

5. Federal Requirements (continued)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6) (continued)

- (4) The Permittee must operate the emergency stationary RICE according to the requirements in **AC.5.d.(4)(a) through (c)** of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in **AC.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee does not operate the engine according to the requirements in **AC.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 63.6640(f))
- (a) There is no time limit on the use of emergency stationary RICE in emergency situations. (40 CFR 63.6640(f)(1))
- (b) The Permittee may operate their emergency stationary RICE for any combination of the purposes specified in **AC.5.d.(4)(b)(i)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by **AC.5.d.(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 63.6640(f)(2))
- i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. (40 CFR 63.6640(f)(2)(i))
- (c) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in **AC.5.d.(4)(b)** of this section. Except as provided in **AC.5.d.(4)(c)(i) and (ii)** of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 63.6640(f)(4))
- i. Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system. (40 CFR 63.6640(f)(4)(i))
- ii. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 63.6640(f)(4)(ii)(A) through (E) are met. (40 CFR 63.6640(f)(4)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AC. Emission Unit S2.052 (continued)

5. Federal Requirements (continued)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

e. Recordkeeping Requirements (40 CFR Part 63.6655)

The Permittee must keep the following records:

- (1) A copy of each notification and report that the Permittee submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that the Permittee submitted, according to the requirement in 40 CFR Part 63.10(b)(2)(xiv). (40 CFR 63.6655(a)(1))
- (2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. (40 CFR 63.6655(a)(2))
- (3) Records of performance tests and performance evaluations as required in 40 CFR Part 63.10(b)(2)(viii). (40 CFR 63.6655(a)(3))
- (4) Records of all required maintenance performed on the RICE and any air pollution control and monitoring equipment. (40 CFR 63.6655(a)(4))
- (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with **AC.5.d.(2)** of this section including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (40 CFR 63.6655(a)(5))
- (6) The Permittee must keep the records required in with **AC.5.d.(3)** of this section to show continuous compliance with each emission or operating limitation that applies. (40 CFR 63.6655(d))
- (7) The Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. (40 CFR 63.6655(e))
- (8) The Permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in 40 CFR Part 63.6640(f)(2)(ii) or (iii), or 40 CFR Part 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. (40 CFR 63.6655(f))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AD. Emission Unit S2.056**

System 39 – 3.5 MMBtu/hr International Diesel Boiler - Building 102-52		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.056	3.5 MMBtu/hr International Diesel Boiler, Model BF-100C-W1HL, Serial 637-E, Building 102-52	4,270,480	360,012

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.056** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 21.0 feet
Stack Diameter: 1.00 feet
Stack Temperature: 400.0 °F
Exhaust Flow: 1,786.0 actual cubic feet per minute (acfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.056** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.056** shall not exceed **25.0 gallons** per hour, averaged over a calendar day.
 - c. Hours
 - (1) **S2.056** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.056** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.050** pounds per hour, nor more than **0.22** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.025** pounds per hour, nor more than **0.11** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0063** pounds per hour, nor more than **0.027** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.0053** pounds per hour, nor more than **0.023** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.50** pounds per hour, nor more than **2.19** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.13** pounds per hour, nor more than **0.55** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.0085** pounds per hour, nor more than **0.037** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.056** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.056** shall not exceed **2.45** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AD. Emission Unit S2.056 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.056** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.056** for each calendar day.

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

a. Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.056**. (40 CFR 63.11196(b))

b. Emission Limits and Work Practice Standards (40 CFR 63.11201)

- (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214 and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
- (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.056** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (3) The standards mentioned in **AD.5.b.** of this section apply at all times **S2.056** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AD. Emission Unit S2.056 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.056** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AD.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.056** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AD. Emission Unit S2.056 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AD.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.056** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.056**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AD. Emission Unit S2.056 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AD.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AD. Emission Unit S2.056 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (9) The Permittee must conduct a performance tune-up according to **AD.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (10) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AD.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AD.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AD. Emission Unit S2.056 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (11) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AD.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.056** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AD.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **AD.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **AD.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.056** by the dates specified in those sections except as specified in **AD.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AD. Emission Unit S2.056 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **AD.5.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.056** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.056** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AE. Emission Unit S2.057**

System 40 – 3.5 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 104-2		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.057	3.5 MMBtu/hr Cleaver Brooks Diesel Boiler, Model M4P-6000, Serial 46018805, Building 104-2	4,266,010	360,530

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.057** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 23.0 feet
Stack Diameter: 1.08 feet
Stack Temperature: 500.0 °F
Exhaust Flow: 2,550.0 actual feet per minute (acfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.057** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.057** shall not exceed **25.0 gallons** per hour, averaged over a calendar day.
 - c. Hours
 - (1) **S2.057** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.057** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.050** pounds per hour, nor more than **0.22** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.025** pounds per hour, nor more than **0.11** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0063** pounds per hour, nor more than **0.027** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.0053** pounds per hour, nor more than **0.023** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.50** pounds per hour, nor more than **2.19** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.13** pounds per hour, nor more than **0.55** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.0085** pounds per hour, nor more than **0.037** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.057** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.057** shall not exceed **2.45** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AE. Emission Unit S2.057 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.057** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the hours of operation for **S2.057** for each calendar day.

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

a. Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.057**. (40 CFR 63.11196(b))

b. Emission Limits and Work Practice Standards (40 CFR 63.11201)

- (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
- (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.057** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (3) The standards mentioned in **AE.5.b.** of this section apply at all times **S2.057** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AE. Emission Unit S2.057 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.057** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AE.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.057** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AE. Emission Unit S2.057 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AE.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.057** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.057**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AE. Emission Unit S2.057 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AE.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AE. Emission Unit S2.057 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (9) The Permittee must conduct a performance tune-up according to **AE.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (10) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AE.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AE.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AE. Emission Unit S2.057 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (11) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AE.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.057** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AE.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **AE.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **AE.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.057** by the dates specified in those sections except as specified in **AE.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AE. Emission Unit S2.057 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **AE.5.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.057** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.057** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AF. Emission Unit S2.058**

System 41 – 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 103-31		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.058	1.2 MMBtu/hr Cleaver Brooks Diesel Boiler, Model OB-3, Serial 0-3619, Building 103-31	4,268,697	358,707

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.058** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 30.0 feet
Stack Diameter: 1.08 feet
Stack Temperature: 500.0 °F
Exhaust Flow: 2,550.0 actual cubic feet per minute (acfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.058** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.058** shall not exceed **8.71 gallons** per hour, averaged over a calendar day.
 - c. Hours
 - (1) **S2.058** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.058** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.017** pounds per hour, nor more than **0.076** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0087** pounds per hour, nor more than **0.038** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0022** pounds per hour, nor more than **0.010** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.0019** pounds per hour, nor more than **0.0081** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.76** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.044** pounds per hour, nor more than **0.19** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.0030** pounds per hour, nor more than **0.013** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.058** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.058** shall not exceed **0.85** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AF. Emission Unit S2.058 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.058** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.058** for each calendar day.

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

a. Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.058**. (40 CFR 63.11196(b))

b. Emission Limits and Work Practice Standards (40 CFR 63.11201)

- (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
- (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.058** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (3) The standards mentioned in **AF.5.b.** of this section apply at all times **S2.058** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AF. Emission Unit S2.058 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.058** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AF.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.058** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AF. Emission Unit S2.058 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AF.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.058** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.058**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.058 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AF.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AF. Emission Unit S2.058 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (9) The Permittee must conduct a performance tune-up according to **AF.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (10) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AF.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AF.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AF. Emission Unit S2.058 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (11) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AF.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.058** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AF.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **AF.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **AF.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.058** by the dates specified in those sections except as specified in **AF.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AF. Emission Unit S2.058 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **AF.5.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.058** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.058** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AG. Emission Unit S2.059

System 42 – 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 103-31		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.059	1.2 MMBtu/hr Cleaver Brooks Diesel Boiler, Model OB-3, Serial 0-3620, Building 103-31	4,268,697	358,707

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.059** has no add-on controls.
 - b. Descriptive Stack Parameters
 Stack Height: 30.0 feet
 Stack Diameter: 1.08 feet
 Stack Temperature: 500.0 °F
 Exhaust Flow: 2,550.0 actual cubic feet per minute (acfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.059** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.059** shall not exceed **8.71 gallons** per hour, averaged over a calendar day.
 - c. Hours
 (1) **S2.059** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
 The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.059** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.017** pounds per hour, nor more than **0.076** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0087** pounds per hour, nor more than **0.038** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0022** pounds per hour, nor more than **0.010** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.0019** pounds per hour, nor more than **0.0081** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.76** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.044** pounds per hour, nor more than **0.19** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.0030** pounds per hour, nor more than **0.013** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.059** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.059** shall not exceed **0.85** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AG. Emission Unit S2.059 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.059** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.059** for each calendar day.

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

a. Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.059**. (40 CFR 63.11196(b))

b. Emission Limits and Work Practice Standards (40 CFR 63.11201)

- (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
- (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.059** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (3) The standards mentioned in **AG.5.b.** of this section apply at all times **S2.059** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AG. Emission Unit S2.059 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.059** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AG.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.059** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AG. Emission Unit S2.059 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AG.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.059** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.059**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AG. Emission Unit S2.059 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AG.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AG. Emission Unit S2.059 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (9) The Permittee must conduct a performance tune-up according to **AG.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (10) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AG.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AG.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AG. Emission Unit S2.059 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (11) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AG.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.059** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AG.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **AG.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **AG.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.059** by the dates specified in those sections except as specified in **AG.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AG. Emission Unit S2.059 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **AG.5.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.059** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.059** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.060

System 43 – 2.5 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 104-9		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.060	2.5 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CBE100-060-150ST, Serial OL103313, Building 104-9	4,265,695	360,818

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.060** has no add-on controls.
 - b. Descriptive Stack Parameters
 Stack Height: 23.0 feet
 Stack Diameter: 1.08 feet
 Stack Temperature: 500.0 °F
 Exhaust Flow: 2,550.0 actual cubic feet per minute (acfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.060** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.060** shall not exceed **18.0 gallons** per hour, averaged over a calendar day.
 - c. Hours
 (1) **S2.060** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
 The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.060** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.036** pounds per hour, nor more than **0.16** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.018** pounds per hour, nor more than **0.079** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0045** pounds per hour, nor more than **0.020** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.0038** pounds per hour, nor more than **0.017** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.36** pounds per hour, nor more than **1.58** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.090** pounds per hour, nor more than **0.39** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.0061** pounds per hour, nor more than **0.027** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.060** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.060** shall not exceed **1.76** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.060 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.060** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.060** for each calendar day.

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

a. Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.060**. (40 CFR 63.11196(b))

b. Emission Limits and Work Practice Standards (40 CFR 63.11201)

- (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
- (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.060** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (3) The standards mentioned in **AH.5.b.** of this section apply at all times **S2.060** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.060 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.060** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AH.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.060** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.060 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AH.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.060** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.060**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.060 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AH.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.060 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (9) The Permittee must conduct a performance tune-up according to **AH.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (10) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AH.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AH.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.060 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (11) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AH.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.060** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AH.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **AH.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **AH.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.060** by the dates specified in those sections except as specified in **AH.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AH. Emission Unit S2.060 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **AH.5.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.060** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.060** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AI. Emission Unit S2.061**

System 44 – 3.8 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 104-4		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.061	3.8 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CBE100-090-150ST, Serial OL103314, Building 104-4	4,265,695	360,818

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.061** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 23.0 feet
Stack Diameter: 1.08 feet
Stack Temperature: 500.0 °F
Exhaust Flow: 2,550.0 actual cubic feet per minute (acfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.061** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.061** shall not exceed **27.0 gallons** per hour, averaged over a calendar day.
 - c. Hours
 - (1) **S2.061** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.061** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.054** pounds per hour, nor more than **0.24** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.027** pounds per hour, nor more than **0.12** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0068** pounds per hour, nor more than **0.030** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.0058** pounds per hour, nor more than **0.025** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.54** pounds per hour, nor more than **2.37** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.14** pounds per hour, nor more than **0.59** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.0092** pounds per hour, nor more than **0.040** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.061** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.061** shall not exceed **2.65** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AI. Emission Unit S2.061 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.061** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.061** for each calendar day.

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

a. Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.061**. (40 CFR 63.11196(b))

b. Emission Limits and Work Practice Standards (40 CFR 63.11201)

- (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
- (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.061** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (3) The standards mentioned in **AI.5.b.** of this section apply at all times **S2.061** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AI. Emission Unit S2.061 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.061** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AI.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.061** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AI. Emission Unit S2.061 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AI.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.061** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.061**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AI. Emission Unit S2.061 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AI.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AI. Emission Unit S2.061 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (9) The Permittee must conduct a performance tune-up according to **AI.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (10) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AI.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AI.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AI. Emission Unit S2.061 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (11) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AI.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.061** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AI.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **AI.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **AI.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.061** by the dates specified in those sections except as specified in **AI.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AI. Emission Unit S2.061 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **AI.5.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.061** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.061** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AJ. Emission Unit S2.062**

System 45 – 3.35 MMBtu/hr Cleaver Brooks Diesel Boiler - Building 49-31		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.062	3.35 MMBtu/hr Cleaver Brooks Diesel Boiler, Serial L99881, Building 49-31	4,266,489	359,872

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.062** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 28.0 feet
Stack Diameter: 2.00 feet
Stack Temperature: 500.0 °F
Exhaust Flow: 3,581.0 actual cubic feet per minute (acfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.062** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.062** shall not exceed **24.0 gallons** per hour, averaged over a calendar day.
 - c. Hours
(1) **S2.062** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.062** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.048** pounds per hour, nor more than **0.21** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.024** pounds per hour, nor more than **0.11** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0060** pounds per hour, nor more than **0.026** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.0051** pounds per hour, nor more than **0.022** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.48** pounds per hour, nor more than **2.10** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.12** pounds per hour, nor more than **0.53** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.0082** pounds per hour, nor more than **0.036** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.062** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.062** shall not exceed **2.35** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AJ. Emission Unit S2.062 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.062** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.062** for each calendar day.

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

a. Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.062**. (40 CFR 63.11196(b))

b. Emission Limits and Work Practice Standards (40 CFR 63.11201)

- (1) The Permittee shall conduct an initial tune-up as specified in 40 CFR Part 63.11214, and conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223. (40 CFR Part 63.11201(b), Table 2, Number 4)
- (2) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 16, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 16):
 - (a) A visual inspection of the boiler system;
 - (b) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - (c) An inventory of major energy use systems consuming energy from **S2.061** and which are under control of the Permittee;
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - (e) A list of major energy conservation measures that are within the Permittee's control;
 - (f) A list of the energy savings potential of the energy conservation measures identified; and
 - (g) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (3) The standards mentioned in **AJ.5.b.** of this section apply at all times **S2.062** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AJ. Emission Unit S2.062 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205)
 - (1) The Permittee at all times must operate and maintain **S2.062** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))
 - (2) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AJ.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.062** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (a) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (v) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AJ. Emission Unit S2.062 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - c. General Compliance Requirements (40 CFR 63.11205) (continued)
 - (3) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AJ.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.062** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c)) (continued)
 - (b) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (c) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (1) For existing affected boilers that have applicable work practice standards, management practices, or emission reduction measures, the Permittee must demonstrate initial compliance no later than the compliance date that is specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2), except as provided in paragraph 40 CFR Part 63.11210(j). (40 CFR 63.11210(c))
 - (2) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.062**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (3) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (4) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (5) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AJ. Emission Unit S2.062 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - d. Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (6) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (7) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))
 - (8) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (1) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AJ.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (2) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (3) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))
 - (4) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (5) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AJ. Emission Unit S2.062 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (9) The Permittee must conduct a performance tune-up according to **AJ.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))
 - (10) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AJ.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (f) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AJ.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (g) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AJ. Emission Unit S2.062 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - e. Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (11) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AJ.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.062** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (a) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AJ.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (b) In the Permittee's site-specific monitoring plan, the Permittee must also address **AJ.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (1) The Permittee must submit the notifications specified in **AJ.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (a) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.062** by the dates specified in those sections except as specified in **AJ.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (b) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (c) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AJ. Emission Unit S2.062 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Part 63) (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
- f. Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225) (continued)
 - (1) The Permittee must submit the notifications specified in **AJ.5.f(1)(a) through (e)** of this section. (40 CFR 63.11225(a)) (continued)
 - (d) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.062** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (e) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (2) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.062** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (3) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (4) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (5) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AK. Emission Units S2.063 and S2.064**

System 46A – 10,000 Gallon Capacity Gasoline Storage Tanks		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.063	Gasoline Storage Tank (GT001), Manufactured by Elutron (10,000 Gallon Capacity), Building 336	4,270,566	360,045
S2.064	Gasoline Storage Tank (GT002), Manufactured by Elutron (10,000 Gallon Capacity), Building 336	4,270,566	360,048

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.063 and S2.064**, each, shall be controlled by submerged fill.
 - b. Descriptive Stack Parameters
Shell Diameter: 9.33 feet
Shell Height: 20.0 feet
Capacity: 10,000 gallons
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.063 and S2.064**, each, shall only be used to store **gasoline**.
 - b. The maximum allowable throughput rate for **S2.063 and S2.064**, each, shall not exceed **4,500.0** gallons per month, nor more than **54,000** gallons per 12-month rolling period.
 - c. Hours
S2.063 and S2.064, each, may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.063 and S2.064**, each, the following pollutants in excess of the following specified limits:

 - a. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.12** tons per year.
 - b. The opacity from **S2.063 and S2.064**, each, shall not equal or exceed **20** percent.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

 - a. Monitor and record the throughput of **gasoline**, in gallons, loaded into, or dispensed from, **S2.063 and S2.064**, on a monthly basis, as determined from vendor invoices for tank loading or fuel pump non-resettable meter for tank dispensing.
 - b. Record the throughput rate of material, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
6. Federal Requirements
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart CCCCCC – for Gasoline Dispensing Facilities
 - a. Permittee must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11115)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AK. Emission Units S2.063 and S2.064 (continued)

6. Federal Requirements (continued)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart CCCCCC – for Gasoline Dispensing Facilities (continued)

- b. Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
 - (1) Minimize gasoline spills. (40 CFR 63.11116(a)(1)).
 - (2) Clean up spills as expeditiously as practicable. (40 CFR 63.11116(a)(2))
 - (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use. (40 CFR 63.11116(a)(3)).
 - (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. (40 CFR 63.11116(a)(4))
- c. Permittee must have records available within 24 hours of a request by the Administrator to document your gasoline throughput. (40 CFR 63.11116(b))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AL. Emission Unit S2.065**

System 46B – 1,000 Gallon Capacity Gasoline Storage Tank		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.065	Gasoline Storage Tank (GT003), Manufactured by San Luis and Piping Construction Company (1,000 Gallon Capacity), Building 150	4,270,325	359,510

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.065** shall be controlled by submerged fill.
 - b. Descriptive Stack Parameters
Shell Diameter: 6.00 feet
Shell Height: 20.0 feet
Capacity: 1,000 gallons
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.065** shall only be used to store **gasoline**.
 - b. The maximum allowable throughput rate for **S2.065** shall not exceed **1,000.0** gallons per month, nor more than **12,000** gallons per year 12-month rolling period.
 - c. Hours
S2.065 may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.065** the following pollutants in excess of the following specified limits:

 - a. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.032** tons per year.
 - b. The opacity from **S2.065** shall not equal or exceed **20** percent.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

 - a. Monitor and record the throughput of **gasoline**, in gallons, loaded into, or dispensed from, **S2.065**, on a monthly basis, as determined from vendor invoices for tank loading or fuel pump non-resettable meter for tank dispensing.
 - b. Record the throughput rate of material, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
6. Federal Requirements
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart CCCCCC – for Gasoline Dispensing Facilities
 - a. Permittee must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11115)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AL. Emission Unit S2.065 (continued)

6. Federal Requirements (continued)

National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart CCCCCC – for Gasoline Dispensing Facilities (continued)

- b. Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
 - (1) Minimize gasoline spills. (40 CFR 63.11116(a)(1)).
 - (2) Clean up spills as expeditiously as practicable. (40 CFR 63.11116(a)(2))
 - (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use. (40 CFR 63.11116(a)(3)).
 - (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. (40 CFR 63.11116(a)(4))
- c. Permittee must have records available within 24 hours of a request by the Administrator to document your gasoline throughput. (40 CFR 63.11116(b))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AM. Emission Unit S2.066**

System 47 – Battery Recycling Retort		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.066	Mercury Retort, Manufactured by Lochhead-Haggerty, Year 2008, Model MR-15, Building 104-5	4,265,624	360,755

1. Air Pollution Control Equipment (NAC 445B.3405)**a. Emissions from **S2.066** shall be controlled by the following:**

- (1) Mercury Condenser (MC-1)
- (2) Mercury Condenser (MC-2)
- (3) Chiller (C-1)
- (4) Condensation Vessel (CV-1)
- (5) After Cooler with Mist Eliminator (AC-1)
- (6) Carbon Filter Column (CFC-1)
- (7) Carbon Filter Column (CFC-2)
- (8) The Mercury Condensers shall be arranged in series while the Carbon Filters are arranged in parallel.

b. Descriptive Stack Parameters

Stack Height: 32.0 feet

Stack Diameter: 0.125 feet

Stack Temperature: 140.0 °F

Exhaust Flow: 40.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)

- a. The maximum allowable throughput rate for **S2.066** shall not exceed **2,700 zinc plates** per batch (corresponding to **0.17 tons** per batch), nor more than **125.0 tons** per 12-month rolling period.
- b. The maximum allowable batches shall not exceed **730 batches** per 12-month rolling period.
- c. The maximum allowable mercury content shall not exceed **5.71 pounds** per batch (based on 2 percent weight of mercury per zinc plate, dry weight), corresponding to **4,171.0 pounds** of mercury per 12-month rolling period.

d. Hours(1) **S2.066** may operate a total of **24 hours** per day.(2) The process time shall be **12 to 16 hours** per batch (temperature ramp up, soaking, and cooling).**e. Work Practice Standards**

- (1) **S2.066** shall be operated in accordance with the manufacturer's recommendations (as referenced in the Lochhead Haggerty operation and maintenance manual) at all times during operation, including start-up and shut-down periods.
- (2) Zinc plates shall be retorted in pans specified by the retort manufacturer and shall not exceed the volume capacity specified by the manufacturer, per pan.
- (3) The retort furnace of **S2.066** shall be maintained under negative pressure during operation. The retort heating element of the retort furnace shall shut down if the gauge pressure of the retort furnace reports positive pressure.
- (4) The cooling water temperature entering **MC-1** shall be maintained at or below 100 °F. The retort heating element of the retort furnace shall shut down if the cooling water temperature entering **MC-1** exceeds 100 °F.
- (5) The cooling water flow rate entering **MC-1** shall be maintained at or above 8 gallons per minute. The retort heating element of the retort furnace shall shut down if the cooling water flow rate entering **MC-1** falls below 8 gallons per minute.
- (6) The exhaust gas temperature of the exhaust stack shall be maintained at or below 140 °F. The retort heating element of the retort furnace shall shut down if the exhaust gas temperature exceeds 140 °F.
- (7) Condensed mercury shall be collected from **CV-1** following each retort batch run.
- (8) **CF-1** and **CF-2**, combined, shall contain no less than 200 pounds of sulfur-impregnated carbon.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AM. Emission Unit S2.066 (continued)

2. Operating Parameters (NAC 445B.3405) (continued)

e. Work Practice Standards (continued)

(9) Replace the sulfur-impregnated carbon in **CF-1** and **CF-2** according to the following schedule:

- (a) After 3,060 hours of operation for **S2.066**, or
- (b) After 3,060 hours of operation for **S2.066**, an analysis of the sulfur-impregnated carbon in **CF-1** and **CF-2** will be performed to determine the percentage of mercury by weight. A representative sample shall be taken and analyzed. The depth of the sample location shall be recorded. Using this sample, the percentage of mercury by weight shall be calculated. Sampling shall be conducted for every 1,000 hours of operation for **S2.066**, at the same sample depth location, until reaching 14% by weight of the carbon. Upon reaching 14% by weight of the carbon, sampling of the carbon will occur every 500 hours of operation for **S2.066** until 15% weight of the carbon is reached. The carbon will be replaced with an equivalent performing sulfur impregnated carbon no later than 30 days after reaching 15% by weight of the carbon. The required mercury analysis shall be performed utilizing one of the following methods:
 - (i) EPA Method 6020, Inductively Coupled Plasma-Mass Spectrometry;
 - (ii) EPA Method 7471B, Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique);
 - (iii) An alternative test method as approved in advance by the Director.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.066** the following pollutants in excess of the following specified limits:

- a. The discharge of **Hg** (mercury) to the atmosphere shall not exceed **0.0048** pounds per hour, nor more than **0.021** tons per 12-month rolling period.
- b. NAC 445B.22017 – The opacity from the **S2.066** shall not equal or exceed **20** percent.
- c. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.066** shall not exceed **0.24** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the number of **zinc plates** and the corresponding batch weight (in tons) for each batch loaded to **S2.066** for each calendar day when in operation.
- b. Monitor and record the hours of operation for **S2.066** for each calendar day.
- c. Monitor and record the throughput rate of **zinc plates** in batches per calendar month, and the corresponding annual throughput rate of **zinc plates** in batches per 12-month rolling period.
- d. Monitor and record the gauge pressure for the retort furnace while operating **S2.066** (in inches of mercury), based on real-time measurements from a data logger.
- e. Monitor and record the cooling water temperature entering **MC-1** while operating **S2.066** (in degrees Fahrenheit), based on real-time measurements from a data logger.
- f. Monitor and record the cooling water flow rate entering **MC-1** while operating **S2.066** (in gallons per minute), based on real-time measurements from a data logger.
- g. Monitor and record the gas temperature of the exhaust stack while operating **S2.066** (in degrees Fahrenheit), based on real-time measurements from a data logger.
- h. Monitor and record the mercury drained from **CV-1** for each batch (in pounds) per calendar month, and the corresponding annual amount of mercury collected per 12-month rolling period.
- i. Monitor and record the change-out of the sulfur-impregnated carbon, as required in **AO.2.e.(9).(b)**, of this section until 15 percent capacity is reached.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AM. Emission Unit S2.066 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- j. Monitor and record the corresponding time and weight of each sulfur-impregnated carbon replacement for **CF-1** and **CF-2**. The original manufacturer's design specifications for the sulfur impregnated carbon used in **CFC-1** and **CFC-2** shall be kept on site.
- k. If a mercury analysis is performed on the sulfur-impregnated carbon for **CF-1** and **CF-2**, monitor and record:
 - (a) The percentage of mercury by weight in the sulfur-impregnated carbon.
 - (b) The depth of the sample location, for each carbon column.
- l. Monitor and record any events (including the time) that result in an interlock shutdown, or other system upsets of **S2.066** and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack of **S2.066** (post controls).
- c. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- d. Method 29 in Appendix A of 40 CFR Part 60 shall be used to determine the mercury concentration. Each test will be run for a minimum of one hour.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AN. Emission Unit S2.067**

System 48 – 324 HP Cummins Emergency Diesel Generator (Well 11)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.067	Emergency Diesel Generator (Manufactured by Cummins, Year 2012, Serial C120320992, 324 HP)	4,268,909	354,517

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.067** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 5.08 feet
Stack Diameter: 0.33 feet
Stack Temperature: 903.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.067** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.067** shall not exceed **14.8 gallons** per hour, averaged over a calendar day, nor more than **1,479.0 gallons** per 12-month rolling period of non-emergency use.
 - c. Hours
 - (1) **S2.067** may operate a total of **24** hours per day.
 - (2) **S2.067** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.067** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.11** pounds per hour, nor more than **0.0054** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.11** pounds per hour, nor more than **0.0054** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.11** pounds per hour, nor more than **0.0054** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.12** pounds per hour, nor more than **0.0061** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **2.14** pounds per hour, nor more than **0.11** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.86** pounds per hour, nor more than **0.093** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.80** pounds per hour, nor more than **0.040** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.067** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.067** shall not exceed **1.45** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AN. Emission Unit S2.067 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.067** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in scf, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the total daily hours of operation for **S2.067** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2007 model year and later Tier 3 non-road engine with a rated power greater than or equal to 37 kW (50 hp): (40 CFR 60.4202(a), 40 CFR 1039 Appendix I)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.20** grams/kW-hr (**0.11** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **3.50** grams/kW-hr (**1.86** pounds per hour).
 - (c) The discharge of NO_x to the atmosphere shall not exceed **4.00** gram/kW-hr (**2.14** pounds per hour).
- (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 1039.105)
 - (a) 20 percent during acceleration mode;
 - (b) 15 percent during the lugging mode; and
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AN. Emission Unit S2.067 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **AN.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AN.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AN.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **AN.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **AN.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AN. Emission Unit S2.067 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AN.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AN.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f)) (continued)

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **AN.5.d.(4)(b)** of this section. Except as provided in paragraph **AN.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE greater than or equal to 100 HP and less than or equal to 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. (40 CFR 60.4211(g)(2))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AO. Emission Unit S2.068**

System 49 – 574 HP Caterpillar Emergency Diesel Generator (Water Processing Plant)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.068	Emergency Diesel Generator (Manufactured by Caterpillar, Year 2012, Serial G6B15460, 574 HP)	4,267,664	352,729

1. Air Pollution Control Equipment (NAC 445B.3405)

- S2.068** has no add-on controls.
- Descriptive Stack Parameters
Stack Height: 10.0 feet
Stack Diameter: 0.50 feet
Stack Temperature: 917.6 °F

2. Operating Parameters (NAC 445B.3405)

- S2.068** may consume only **diesel**.
- The maximum allowable fuel consumption rate for **S2.068** shall not exceed **34.9 gallons** per hour, averaged over a calendar day, nor more than **3,490.0 gallons** per 12-month rolling period of non-emergency use.
- Hours
 - S2.068** may operate a total of **24** hours per day.
 - S2.068** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.068** the following pollutants in excess of the following specified limits:

- The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.19** pounds per hour, nor more than **0.0095** tons per 12-month rolling period.
- The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.19** pounds per hour, nor more than **0.0095** tons per 12-month rolling period.
- The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.19** pounds per hour, nor more than **0.0095** tons per 12-month rolling period.
- The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.010** pounds per hour, nor more than **0.00050** tons per 12-month rolling period.
- The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **3.79** pounds per hour, nor more than **0.19** tons per 12-month rolling period.
- The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **3.29** pounds per hour, nor more than **0.16** tons per 12-month rolling period.
- The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **1.42** pounds per hour, nor more than **0.071** tons per 12-month rolling period.
- NAC 445B.22017 – The opacity from the **S2.068** shall not equal or exceed **20** percent.
- NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.068** shall not exceed **0.60** pounds per MMBtu.
- NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.068** shall not exceed **3.42** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AO. Emission Unit S2.068 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.068** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in scf, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the total daily hours of operation for **S2.068** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2007 model year and later Tier 3 non-road engine with a rated power greater than or equal to 37 kW (50 hp): (40 CFR 60.4202(a), 40 CFR 89.112 Table 1)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.20** grams/kW-hr (**0.19** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **3.50** grams/kW-hr (**3.30** pounds per hour).
 - (c) The discharge of NO_x to the atmosphere shall not exceed **4.00** gram/kW-hr (**3.79** pounds per hour).
- (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 1039.105)
 - (a) 20 percent during acceleration mode;
 - (b) 15 percent during the lugging mode; and
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AO. Emission Unit S2.068 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **AO.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AO.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AO.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraph **AO.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **AO.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AO. Emission Unit S2.068 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AO.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AO.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f)) (continued)

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **AO.5.d.(4)(b)** of this section. Except as provided in paragraph **AO.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE greater than 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. The Permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards. (40 CFR 60.4211(g)(3))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AP. Emission Units S2.069 through S2.072**

System 50 – Comp A5 Collection Systems		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.069	Primary Comp A5 Collection #1 (Cells 6 and 7)	4,271,279	359,318
S2.070	Secondary Comp A5 Collection #2 (Cells 6 and 7)	4,271,279	359,318
S2.071	Primary Comp A5 Collection #3 (Cells 3 and 4)	4,271,279	359,318
S2.072	Secondary Comp A5 Collection #4 (Cells 3 and 4)	4,271,279	359,318

1. Air Pollution Control Equipment (NAC 445B.3405)

- Emissions from **S2.069** shall be controlled by **Cyclone #1, Baghouse #1, and HEPA Filter #1.**
- Emissions from **S2.070** shall be controlled by **Cyclone #2, Baghouse #2, and HEPA Filter #2.**
- Emissions from **S2.071** shall be controlled by **Cyclone #3, Baghouse #3, and HEPA Filter #3.**
- Emissions from **S2.072** shall be controlled by **Cyclone #4, Baghouse #4, and HEPA Filter #4.**
- Descriptive Stack Parameters

Emissions from **S2.069 through S2.072**, each, shall exit through its own exhaust stack with the following stack parameters:

Stack Height: 30.0 feet

Stack Diameter: 0.50 feet

Stack Temperature: 70.0 °F

Exhaust Flow: 750.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)

- The maximum allowable throughput rate for **S2.069 and S2.071**, each, shall not exceed **2,880.0 grenades** per hour averaged over a calendar day, corresponding to **165.1 pounds of Comp A5 energetic material** per hour.
- The maximum allowable throughput rate for **S2.070 and S2.072**, each, shall not exceed **2,880.0 grenades** per hour averaged over a calendar day, corresponding to **12.1 pounds of Comp A5 energetic material** per hour.
- Hours
(1) **S2.069 through S2.072**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.069 through S2.072**, each, the following pollutants in excess of the following specified limits:

- The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.13 pounds** per hour, nor more than **0.56 tons** per 12-month rolling period.
- The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.13 pounds** per hour, nor more than **0.56 tons** per 12-month rolling period.
- The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.13 pounds** per hour, nor more than **0.56 tons** per 12-month rolling period.
- NAC 445B.22017 – The opacity from the **S2.069 through S2.072**, each, shall not equal or exceed **20** percent.
- NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.069 through S2.072**, each, shall not exceed **92.1 pounds** per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AP. Emission Units S2.069 through S2.072 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the throughput for **S2.069 through S2.072**, each, for each calendar day.
- b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.069 through S2.072**, each, for each calendar day.
- e. Conduct and record an observation of visible emissions (excluding water vapor) on **Baghouse #1, Baghouse #2, Baghouse #3, and Baghouse #4** controlling **S2.070, S2.071, S2.072, and S2.072**, respectively, on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
- f. Inspect **Baghouse #1, Baghouse #2, Baghouse #3, and Baghouse #4** installed on **S2.070, S2.071, S2.072, and S2.072**, respectively, on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AQ. Emission Unit S2.073**

System 51 – 8.2 MMBtu/hr Cleaver Brooks Diesel Fired Boiler - Building 13		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.073	8.2 MMBtu/hr Cleaver Brooks Diesel Boiler, Model CBEX 100-200-150ST, Building 13	4,267,895	355,883

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.073** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 35.0 feet
Stack Diameter: 1.67 feet
Stack Temperature: 400.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.073** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.073** shall not exceed **58.3 gallons** per hour, averaged over a calendar day.
 - c. The maximum allowable annual fuel consumption rate shall not exceed the value under **Section VII.D.1.b.** of this operating permit.
 - d. Hours
 - (1) **S2.073** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.073** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.23** pounds per hour, nor more than **1.02** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.12** pounds per hour, nor more than **0.51** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.029** pounds per hour, nor more than **0.13** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.025** pounds per hour, nor more than **0.11** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **1.28** pounds per hour, nor more than **5.62** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.87** pounds per hour, nor more than **3.83** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.059** pounds per hour, nor more than **0.26** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.073** shall not equal or exceed **20** percent.
 - i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.073** shall not exceed **0.60** pounds per MMBtu.
 - j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.073** shall not exceed **5.71** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.073** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.073** for each calendar day.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

(1) Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.073**. (40 CFR 63.11196(b))

(2) Emission Limits and Work Practice Standards (40 CFR 63.11201)

- (a) The Permittee shall achieve less than or equal to the following emission limits, except during periods of startup and shutdown (40 CFR Part 63.11201(b), Table 1, Number 5):

- (i) Heat input of 3.0E-02 lb/MMBtu for PM (Filterable).
- (ii) Heat input of 2.2E-05 lb/MMBtu for Hg (Mercury).
- (iii) 420 parts per million (ppm) by volume on a dry basis corrected to 3 percent oxygen (2-run average or 10-day rolling average) of CO (Carbon Monoxide).

- (b) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 5, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 5):

- (i) Conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223.

- (c) The standards mentioned in **AQ.5.b.** of this section apply at all times **S2.073** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))

(3) General Compliance Requirements (40 CFR 63.11205)

- (a) The Permittee at all times must operate and maintain **S2.073** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(3) General Compliance Requirements (40 CFR 63.11205) (continued)

- (b) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
- (c) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AQ.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.073** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (i) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (I) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (II) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (III) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (IV) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (V) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (VI) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))
 - (ii) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (iii) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(4) Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)

- (a) The Permittee must demonstrate initial compliance with each emission limit specified in Table 1 to 40 CFR Part 63 Subpart JJJJJJ that applies to **S2.073** by either conducting performance (stack) tests, as applicable, according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11210(a))
- (b) For new or reconstructed affected boilers that have applicable emission limits, the Permittee must demonstrate initial compliance with the applicable emission limits no later than 180 days after March 21, 2011 or within 180 days after startup of the source, whichever is later, according to 40 CFR 63(a)(2)(ix). (40 CFR 63.11210(d))
- (c) For new or reconstructed affected boilers that have applicable work practice standards or management practices, the Permittee are not required to complete an initial performance tune-up, but the Permittee is required to complete the applicable biennial or 5-year tune-up as specified in 40 CFR 63.11223 no later than 25 months or 61 months, respectively, after the initial startup of the new or reconstructed affected source. (40 CFR 60.11210(g))
- (d) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.073**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
- (e) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
- (f) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
- (g) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))
- (h) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
- (i) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (4) Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (j) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
 - (5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (a) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AQ.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (b) When demonstrating initial compliance with the PM emission limit, if the Permittee's performance test results show that the PM emissions are equal to or less than half of the PM emission limit, the Permittee does not need to conduct further performance tests for PM until September 14, 2021, but must continue to comply with all applicable operating limits and monitoring requirements and must comply with the provisions as specified in **AQ.5.e.(2)(a) through (c)** of this section. (40 CFR 63.11220(b))
 - (i) A performance test for PM must be conducted by September 14, 2021. (40 CFR 63.11220(b)(1))
 - (ii) If test results show that the PM emissions are equal to or less than half of the PM emission limit, the Permittee may choose to conduct performance tests for PM every fifth year. Each such performance test must be conducted no more than 61 months after the previous performance test. (40 CFR 63.11220(b)(2))
 - (iii) If the Permittee intends to burn a new type of fuel other than ultra-low-sulfur liquid fuel or gaseous fuels as defined in 40 CFR 63.11237, the Permittee must conduct a performance test within 60 days of burning the new fuel type. (40 CFR 63.11220(b)(3))
 - (iv) If the performance test results show that the PM emissions are greater than half of the PM emission limit, the Permittee must conduct subsequent performance tests on a triennial basis as specified in **AQ.5.e.(1)** of this section. (40 CFR 63.11220(b)(4))
 - (c) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (d) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (e) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (f) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))
 - (g) The Permittee must demonstrate continuous compliance with each emission limit and operating limit in Tables 1 and 3 to 40 CFR Part 63 Subpart JJJJJJ that applies to **S2.073** according to the methods specified in Table 7 to 40 CFR Part 63 Subpart JJJJJJ and to **AQ.5.e.(7)(a) through (b)** of this section. (40 CFR 63.11222(a))
 - (i) Following the date on which the initial compliance demonstration is completed or is required to be completed under 40 CFR 63.7 and 63.11196, whichever date comes first, the Permittee must continuously monitor the operating parameters. Operation above the established maximum, below the established minimum, or outside the allowable range of the operating limits specified in **AQ.5.e.(7)** of this section constitutes a deviation from the operating limits established under 40 CFR Part 63 Subpart JJJJJJ, except during performance tests conducted to determine compliance with the emission and operating limits or to establish new operating limits. Operating limits are confirmed or reestablished during performance tests. (40 CFR 63.11222(a)(1))
 - (ii) The Permittee must keep records of the type and amount of all fuels burned in each boiler during the reporting period. (40 CFR 63.11222(a)(2))
 - (h) The Permittee must report each instance in which **S2.073** did not meet each emission limit and operating limit in Tables 1 and 3 to 40 CFR Part 63 Subpart JJJJJJ that apply to **S2.073**. These instances are deviations from the emission limits in 40 CFR Part 63 Subpart JJJJJJ. These deviations must be reported according to the requirements in 40 CFR 63.11225. (40 CFR 63.11222(b))
 - (i) The Permittee must conduct a performance tune-up according to **AQ.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)

- (j) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AQ.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AQ.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (I) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (II) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (III) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (vii) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (k) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AQ.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.073** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (i) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AQ.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (I) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (II) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (III) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (ii) In the Permittee's site-specific monitoring plan, the Permittee must also address **AQ.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (I) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (II) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (III) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - (l) The Permittee shall minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the permittee shall follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee shall submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11224(g))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (6) Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)
 - (a) The Permittee must submit the notifications specified in **AQ.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (i) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.073** by the dates specified in those sections except as specified in **AQ.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (ii) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (iii) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))
 - (iv) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.073** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (v) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
 - (b) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.073** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
 - (c) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
 - (d) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
 - (4) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c)

(1) Applicability and Delegation of Authority (40 CFR 60.40c)

The Permittee is not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this 40 CFR Part 50 Subpart Dc during periods of combustion research, as defined in 40 CFR Part 60.41c. (40 CFR 60.40c(c))

(2) Standards for Sulfur Dioxide (SO₂) (40 CFR 60.42c)

(a) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of **215 ng/J (0.50 lb/MMBtu)** heat input from oil; or, as an alternative, the Permittee shall not combust oil that contains greater than **0.5** weight percent sulfur. The percent reduction requirements are not applicable. (40 CFR 60.42c(d))

(b) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of what is specified under 40 CFR Part 60.42c(e)(1). (40 CFR 60.42c(e))

(b) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of the following (40 CFR 60.42c(e)):

(i) The emission limit determined according to the following formula for any affected facility that combusts coal, oil, or coal and oil with any other fuel (40 CFR 60.42c(e)(2)):

$$E_s = \frac{(K_a H_a + K_b H_b + K_c H_c)}{(H_a + H_b + H_c)}$$

Where:

E_s = SO₂ emission limit, expressed in hg/J or lb/MMBtu heat input;

K_a = 520 ng/J (1.2 lb/MMBtu);

K_b = 260 ng/J (0.60 lb/MMBtu);

K_c = 215 ng/J (0.50 lb/MMBtu);

H_a = Heat input from the combustion of coal, except coal combusted in an affected facility subject to paragraph (b)(2) of this section, in Joules (J) [MMBtu];

H_b = Heat input from the combustion of coal in an affected facility subject to 40 CFR Part 60.42c(b)(2), in J (MMBtu); and

H_c = Heat input from the combustion oil, in J (MMBtu).

(c) Reduction in the potential SO₂ emission rate through fuel pretreatment is not credited toward the percent reduction requirement under 40 CFR Part 60.42c(b)(2) unless (40 CFR 60.42c(f)):

(i) Fuel pretreatment results in a 50 percent (0.50) or greater reduction in the potential SO₂ emission rate; and (40 CFR 60.42c(f)(1))

(ii) Emissions from the pretreated fuel (without either combustion or post-combustion SO₂ control) are equal to or less than the emission limits specified under 40 CFR Part 60.42c(b)(2). (40 CFR 60.42c(f)(2))

(c) Except as provided in 40 CFR Part 60.42c(h), compliance with the percent reduction requirements, fuel oil sulfur limits, and emission limits under 40 CFR Part 60.42 shall be determined on a 30-day rolling average basis. (40 CFR 60.42c(g))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (2) Standards for Sulfur Dioxide (SO₂) (40 CFR 60.42c) (continued)
 - (d) Compliance with the emission limits or fuel oil sulfur limits under 40 CFR Part 60.42c may be determined based on a certification from the fuel supplier, as described under 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.42c(h))
 - (e) The SO₂ emission limits, fuel oil sulfur limits, and percent reduction requirements under 40 CFR 60.42c apply at all times, including periods of startup, shutdown, and malfunction. (40 CFR 60.42c(i))
 - (3) Compliance and Performance Test Methods and Procedures for Sulfur Dioxide (40 CFR 60.44c)
 - (a) Except as provided in 40 CFR Parts 60.44c(g) & (h) and 40 CFR Part 60.8(b), performance tests required under 40 CFR Part 60.8 shall be conducted following the procedures specified in 40 CFR Parts 60.44c(b), 60.44c(c), 60.44c(d), 60.44c(e), and 60.44c(f), as applicable. 40 CFR Part 60.8(f) does not apply to 40 CFR Part 60.44c. The 30-day notice required in 40 CFR Part 60.8(d) applies only to the initial performance test unless otherwise specified by the Administrator. (40 CFR 60.44c(a))
 - (b) The initial performance test required under 40 CFR Part 60.8 shall be conducted over 30 consecutive operating days of the steam generating unit. Compliance with the percent reduction requirements and SO₂ emission limits under 40 CFR 60.42c shall be determined using a 30-day average. The first operating day included in the initial performance test shall be scheduled within 30 days after achieving the maximum production rate, but not later than 180 days after the initial startup. The steam generating unit load during the 30-day period does not have to be the maximum design heat input capacity, but must be representative of future operating conditions. (40 CFR 60.44c(b))
 - (c) After the initial performance test required under 40 CFR Part 60.44c(b) and 40 CFR Part 60.8, compliance with the percent reduction requirements and SO₂ emission limits under 40 CFR Part 60.42c is based on the average percent reduction and the average SO₂ emission rates for 30 consecutive steam generating unit operating days. A separate performance test is completed at the end of each steam generating unit operating day, and a new 30-day average percent reduction and SO₂ emission rate are calculated to show compliance with the standard. (40 CFR 60.44c(c))
 - (d) The procedures in 40 CFR Part 60 Appendix A Method 19 are used to determine the hourly SO₂ emission rate (E_{ho}) and the 30-day average SO₂ emission rate (E_{ao}). The hourly averages used to compute the 30-day averages are obtained from the CEMS. Method 19 shall be used to calculate E_{ao} when using daily fuel sampling or 40 CFR Part 60 Appendix A Method 6B. (40 CFR 60.44c(d))
 - (e) If the Permittee seeks to demonstrate compliance with the fuel oil sulfur limits under 40 CFR Part 60.42c based on shipment fuel sampling, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the steam generating unit to demonstrate that the oil contains 0.5 weight percent sulfur or less. Thereafter, the Permittee shall sample the oil in the fuel tank after each new shipment of oil is received, as described under 40 CFR Part 60.46c(d)(2). (40 CFR 60.44c(g))
 - (f) If the Permittee seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described in 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.44c(h))
 - (g) The Permittee shall use all valid SO₂ emissions data in calculating %P_s and E_{ho} under 40 CFR Parts 60.44c(d) or 60.44c(e), as applicable, whether or not the minimum emissions data requirements under 40 CFR Part 60.46c(f) are achieved. All valid emissions data, including valid data collected during periods of startup, shutdown, and malfunction, shall be used in calculating %P_s or E_{ho} pursuant to 40 CFR Parts 60.44c(d) or 60.44c(e), as applicable. (40 CFR 60.44c(j))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

- b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c)
 - (a) Except as provided in 40 CFR Parts 60.46c(d) and (e), the Permittee shall install, calibrate, maintain, and operate a CEMS for measuring SO₂ concentrations and either O₂ or CO₂ concentrations at the outlet of the SO₂ control device (or the outlet of the steam generating unit if no SO₂ control device is used), and shall record the output of the system. The Permittee who is subject to the percent reduction requirements under 40 CFR Part 60.42c shall measure SO₂ concentrations and either O₂ or CO₂ concentrations at both the inlet and outlet of the SO₂ control device. (40 CFR 60.46c(a))
 - (b) The 1-hour average SO₂ emission rates measured by a CEMS shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR Part 60.42c. Each 1-hour average SO₂ emission rate must be based on at least 30 minutes of operation, and shall be calculated using the data points required under 40 CFR Part 60.13(h)(2). Hourly SO₂ emission rates are not calculated if the affected facility is operated less than 30 minutes in a 1-hour period and are not counted toward determination of a steam generating unit operating day. (40 CFR 60.46c(b))
 - (c) The procedures under 40 CFR Part 60.13 shall be followed for installation, evaluation, and operation of the CEMS. (40 CFR 60.46c(c))
 - (i) All CEMS shall be operated in accordance with the applicable procedures under 40 CFR Part 60 Appendix B Performance Specifications 1, 2, and 3. (40 CFR 60.46c(c)(1))
 - (ii) Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with 40 CFR Part 60 Appendix F Procedure 1. (40 CFR 60.46c(c)(2))
 - (iii) For affected facilities subject to the percent reduction requirements under 40 CFR Part 60.42c, the span value of the SO₂ CEMS at the inlet to the SO₂ control device shall be 125 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted, and the span value of the SO₂ CEMS at the outlet from the SO₂ control device shall be 50 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted. (40 CFR 60.46c(c)(3))
 - (iv) For affected facilities that are not subject to the percent reduction requirements of 40 CFR Part 60.42c, the span value of the SO₂ CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) shall be 125 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted. (40 CFR 60.46c(c)(4))
 - (d) As an alternative to operating a CEMS at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by using 40 CFR Part 60 Appendix A Method 6B. Fuel sampling shall be conducted pursuant to either 40 CFR Parts 60.46c(d)(1) or (d)(2). 40 CFR Part 60 Appendix A Method 6B shall be conducted pursuant to 40 CFR Part 60.46c(d)(3). (40 CFR 60.46c(d))
 - (i) For affected facilities combusting coal or oil, coal or oil samples shall be collected daily in an as-fired condition at the inlet to the steam generating unit and analyzed for sulfur content and heat content according the 40 CFR Part 60 Appendix A Method 19. 40 CFR Part 60 Appendix A Method 19 provides procedures for converting these measurements into the format to be used in calculating the average SO₂ input rate. (40 CFR 60.46c(d)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

- b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c) (continued)
 - (d) As an alternative to operating a CEMS at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by using 40 CFR Part 60 Appendix A Method 6B. Fuel sampling shall be conducted pursuant to either 40 CFR Parts 60.46c(d)(1) or (d)(2). 40 CFR Part 60 Appendix A Method 6B shall be conducted pursuant to 40 CFR Part 60.46c(d)(3). (40 CFR 60.46c(d)) (continued)
 - (ii) As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The Permittee shall analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the Permittee shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less. (40 CFR 60.46c(d)(2))
 - (iii) 40 CFR Part 60 Appendix A Method 6B may be used in lieu of CEMS to measure SO₂ at the inlet or outlet of the SO₂ control system. An initial stratification test is required to verify the adequacy of the 40 CFR Part 60 Appendix A Method 6B sampling location. The stratification test shall consist of three paired runs of a suitable SO₂ and CO₂ measurement train operated at the candidate location and a second similar train operated according to the procedures in 40 CFR Part 3.2 and the applicable procedures in 40 CFR Part 60 Appendix B Performance Specification 2 Section 7. 40 CFR Part 60 Appendix B Method 6B, 40 CFR Part 60 Appendix A Method 6A, or a combination of 40 CFR Part 60 Appendix A Methods 6 and 3 or 40 CFR Part 60 Appendix A Methods 6C and 3A are suitable measurement techniques. If 40 CFR Part 60 Appendix A Method 6B is used for the second train, sampling time and timer operation may be adjusted for the stratification test as long as an adequate sample volume is collected; however, both sampling trains are to be operated similarly. For the location to be adequate for 40 CFR Part 60 Appendix A Method 6B 24-hour tests, the mean of the absolute difference between the three paired runs must be less than 10 percent (0.10). (40 CFR 60.46c(d)(3))
 - (e) The monitoring requirements of 40 CFR Parts 60.46c(a) and 60.46c(d) shall not apply to affected facilities subject to 40 CFR Parts 60.42c(h) (1), (2), or (3) where the Permittee seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, as described under 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.46c(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c) (continued)
 - (f) The Permittee operating a CEMS pursuant to 40 CFR Part 60.46c(a), or conducting as-fired fuel sampling pursuant to 40 CFR Part 60.46c(d)(1), shall obtain emission data for at least 75 percent of the operating hours in at least 22 out of 30 successive steam generating unit operating days. If this minimum data requirement is not met with a single monitoring system, the Permittee shall supplement the emission data with data collected with other monitoring systems as approved by the Administrator. (40 CFR 60.46c(f))
 - (5) Reporting and Recordkeeping Requirements (40 CFR 60.48c)
 - (a) The Permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR Part 60.7. This notification shall include (40 CFR 60.48c(a)):
 - (i) The design heat input capacity and identification of fuels to be combusted. (40 CFR 60.48c(a)(1))
 - (ii) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR Parts 60.42c, or 60.43c. (40 CFR 60.48c(a)(2))
 - (iii) The annual capacity factor at which the Permittee operates based on all fuels fired and based on each individual fuel fired. (40 CFR 60.48c(a)(3))
 - (iv) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the Permittee to submit additional information concerning the control device. The Permittee is subject to the provisions of 40 CFR Parts 60.42c(a) or 60.42c(b)(1), unless and until this determination is made by the Administrator. (40 CFR 60.48c(a)(4))
 - (b) The Permittee shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in 40 CFR Part 60 Appendix B. (40 CFR 60.48c(b))
 - (c) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall submit reports to the Administrator. (40 CFR 60.48c(d))
 - (d) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall keep records and submit reports as required under 40 CFR Part 60.48c(d), including the following information, as applicable. (40 CFR 60.48c(e))
 - (i) Calendar dates covered in the reporting period. (40 CFR 60.48c(e)(1))
 - (ii) Each 30-day average SO₂ emission rate (ng/J or lb/MMBtu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken. (40 CFR 60.48c(e)(2))
 - (iii) Each 30-day average percent of potential SO₂ emission rate calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of the corrective actions taken. (40 CFR 60.48c(e)(3))
 - (iv) Identification of any steam generating unit operating days for which SO₂ or diluent (O₂ or CO₂) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken. (40 CFR 60.48c(e)(4))
 - (v) Identification of any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which coal or oil were not combusted in the steam generating unit. (40 CFR 60.48c(e)(5))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (5) Reporting and Recordkeeping Requirements (40 CFR 60.48c) (continued)
 - (d) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall keep records and submit reports as required under 40 CFR Part 60.48c(d), including the following information, as applicable. (40 CFR 60.48c(e)) (continued)
 - (vi) Identification of the F factor used in calculations, method of determination, and type of fuel combusted. (40 CFR 60.48c(e)(6))
 - (vii) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under 40 CFR Parts 60.48c(f)(1), 60.48c(f)(2), 60.48c(f)(3), or 60.48c(f)(4), as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the Permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period. (40 CFR 60.48c(e)(11))
 - (e) Fuel supplier certification shall include the following information: (40 CFR 60.48c(f))
 - (i) For distillate oil: (40 CFR 60.48c(f)(1))
 - (I) The name of the oil supplier; (40 CFR 60.48c(f)(1)(i))
 - (II) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR Part 60.41c; and (40 CFR 60.48c(f)(1)(ii))
 - (III) The sulfur content or maximum sulfur content of the oil. (40 CFR 60.48c(f)(1)(iii))
 - (ii) For residual oil: (40 CFR 60.48c(f)(2))
 - (I) The name of the oil supplier; (40 CFR 60.48c(f)(2)(i))
 - (II) The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location; (40 CFR 60.48c(f)(2)(ii))
 - (III) The sulfur content of the oil from which the shipment came (or of the shipment itself); and (40 CFR 60.48c(f)(2)(iii))
 - (IV) The method used to determine the sulfur content of the oil. (40 CFR 60.48c(f)(2)(iv))
 - (f) Except as provided under 40 CFR Parts 60.48c(g)(2) and 60.48c(g)(3), the Permittee shall record and maintain records of the amount of each fuel combusted during each operating day. (40 CFR 60.48c(g)(1))
 - (i) As an alternative to meeting the requirements of 40 CFR Part 60.48c(g)(1), the Permittee that combusts only natural gas, wood, fuels using fuel certification in 40 CFR Part 60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. (40 CFR 60.48c(g)(2))
 - (ii) As an alternative to meeting the requirements of 40 CFR Part 60.48c(g)(1), the Permittee located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to 40 CFR Part 60 Subpart Dc) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR Part 60.42c to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. (40 CFR 60.48c(g)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.073 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (5) Reporting and Recordkeeping Requirements (40 CFR 60.48c) (continued)
 - (g) The Permittee shall calculate the annual capacity factor individually for each fuel combusted. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of the calendar month. (40 CFR 60.48c(h))
 - (h) All records required under 40 CFR Part 60.48c shall be maintained by the Permittee for a period of two years following the date of such record. (40 CFR 60.48c(i))
 - (i) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. (40 CFR 60.48c(j))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AR. Emission Unit S2.074

System 52 – Mobile Mercury Transfer System (MMTS)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.074	Mobile Mercury Transfer System Process Ventilation System	4,272,879	361,646

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.074** shall be controlled by a **HEGA Filtration System**.
 - b. Descriptive Stack Parameters

Stack Height: 27.0 feet
 Stack Diameter: 0.67 feet
 Stack Temperature: 72.0 °F
 Exhaust Flow: 1,850.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **S2.074** shall not exceed **0.30** metric tons of **metallic mercury** per hour, averaged over a calendar day, nor more than **624.0** metric tons per 12-month rolling period.
 - b. Hours
 - (1) **S2.074** may operate a total of **10** hours per day.
 - (2) **S2.074** may operate a total of **2,080** hours per year.
 - (3) **S2.074** may operate from **6:30 AM to 5:00 PM only**.
 - c. The Permittee shall comply with the following work practice standards:
 - (1) Room temperature within **S2.074** shall be maintained in the range of **21 °C to 24 °C (70 °F to 75 °F)**.
 - (2) The process ventilation/**HEGA Filtration System** shall be operated at all times during mercury transfer operations.
 - (3) Maximum process air flow rate through the ventilation and filter system shall not exceed **1,850.0** cubic feet per minute.
 - (4) A minimum airflow velocity of **100.0** feet per minute shall be maintained at the working faces of the two fume hoods.
 - (5) Mercury concentration in the air stream shall be measured before entering and after exiting the HEGA carbon adsorption filter system by the Mercury Monitoring System (MMS).
 - (6) During operation of **S2.074**, mercury vapor concentrations shall be monitored at 16 locations within the building in which **S2.074** is located using the MMS. The MMS shall be set to trigger an alarm if the mercury concentration at any of the inside measuring locations reaches or exceeds **25.0 µg/m³**.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.074** the following pollutants in excess of the following specified limits:

 - a. The discharge of **Hg** (mercury) to the atmosphere shall not exceed **0.000069** pounds per hour, nor more than **0.000072** tons per 12-month rolling period.
 - b. NAC 445B.22017 – The opacity from the **S2.074** shall not equal or exceed **20** percent.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AR. Emission Unit S2.074 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the throughput for **S2.074** for each calendar day.
- b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the times at which operations start and stop as well as the total daily hours of operation for **S2.074** for each calendar day.
- e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- f. Conduct and record an observation of visible emissions (excluding water vapor) on the **HEGA Filtration System** controlling **S2.074** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
- g. Inspect the **HEGA Filtration System** installed on **S2.074** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AS. Emission Unit S2.075**

System 53 – 147 HP Cummins Emergency Diesel Generator (MMTS)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.075	Emergency Diesel Generator for MMTS (Manufactured by Cummins, Year 2013, Serial 100DSGAA, 147 HP)	4,272,859	361,650

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.075** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 5.0 feet
Stack Diameter: 0.50 feet
Stack Temperature: 788.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.075** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.075** shall not exceed **8.10 gallons** per hour, averaged over a calendar day, nor more than **810.0 gallons** per 12-month rolling period of non-emergency use.
 - c. Hours
 - (1) **S2.075** may operate a total of **24** hours per day.
 - (2) **S2.075** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.075** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.071** pounds per hour, nor more than **0.0039** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.071** pounds per hour, nor more than **0.0039** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.071** pounds per hour, nor more than **0.0039** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.076** pounds per hour, nor more than **0.0042** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.97** pounds per hour, nor more than **0.049** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.21** pounds per hour, nor more than **0.060** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.36** pounds per hour, nor more than **0.020** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.075** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.075** shall not exceed **0.72** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AS. Emission Unit S2.075 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.075** (in gallons) by multiplying the hourly fuel consumption rate as stated in **AS.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.075** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2007 model year and later Tier 3 non-road engine with a rated power greater than or equal to 37 kW (50 hp): (40 CFR 60.4202(a), 40 CFR 89.112 Table 1)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.30** grams/kW-hr (**0.071** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **5.00** grams/kW-hr (**1.21** pounds per hour).
 - (c) The discharge of NO_x to the atmosphere shall not exceed **4.00** gram/kW-hr (**0.97** pounds per hour).
- (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 89.113(a))
 - (a) 20 percent during acceleration mode;
 - (b) 15 percent during the lugging mode; and
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AS. Emission Unit S2.075 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **AS.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AS.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AS.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **AS.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **AS.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AS. Emission Unit S2.075 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AS.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AS.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f)) (continued)

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **AS.5.d.(4)(b)** of this section. Except as provided in paragraph **AS.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE greater than or equal to 100 HP and less than or equal to 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. (40 CFR 60.4211(g)(2))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AT. Emission Unit PF1.020

System 54 – Cedarapids Horizontal Impact Metal Crusher		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.020	Cedarapids Horizontal Impact Metal Crusher and associated transfers (In: Feed Conveyors, Out: Storage Bin via Discharge Conveyor)	4,273,564	355,964

1. Air Pollution Control Equipment (NAC 445B.3405)
Emissions from **PF1.020** shall be controlled by an **enclosure**.
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **PF1.020** shall not exceed **0.50** tons of **metal** per hour averaged over a calendar day, nor more than **1,300.0** tons per 12-month rolling period.
 - b. Hours
 - (1) **PF1.020** may operate a total of **10** hours per day.
 - (2) **PF1.020** may operate a total of **2,600** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.020** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.06** pounds per hour, nor more than **1.38** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.06** pounds per hour, nor more than **1.38** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **1.06** pounds per hour, nor more than **1.38** tons per 12-month rolling period.
 - d. NAC 445B.22017 – The opacity from **PF1.020** shall not equal or exceed **20** percent.
 - e. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **PF1.020** shall not exceed **2.58** pounds per hour.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
 - a. Monitor and record the throughput for **PF1.020** for each calendar day.
 - b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
 - c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
 - d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AT. Emission Unit PF1.020 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (continued)

- e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.020** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
- f. Inspect the enclosure installed on **PF1.020** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AU. Emission Unit S2.076**

System 55 – 400 HP John Deere Diesel Generator (Metal Crusher)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.076	Diesel Generator for Cedarapids Horizontal Impact Metal Crusher (Manufactured by John Deere, Year 2006, Model 6135H, 400 HP)	4,273,564	355,964

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.076** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 15.6 feet
Stack Diameter: 0.50 feet
Stack Temperature: 712.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.076** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.076** shall not exceed **19.3 gallons** per hour, averaged over a calendar day, nor more than **50,180.0 gallons** per 12-month rolling period.
 - c. Hours
 - (1) **S2.076** may operate a total of **10 hours** per day.
 - (2) **S2.076** may operate a total of **2,600 hours** per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.076** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.13 pounds** per hour, nor more than **0.17 tons** per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.13 pounds** per hour, nor more than **0.17 tons** per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.13 pounds** per hour, nor more than **0.17 tons** per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.82 pounds** per hour, nor more than **1.07 tons** per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **2.65 pounds** per hour, nor more than **3.44 tons** per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **2.29 pounds** per hour, nor more than **2.98 tons** per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.88 pounds** per hour, nor more than **1.15 tons** per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.075** shall not equal or exceed **20 percent**.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.076** shall not exceed **1.89 pounds** per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AU. Emission Unit S2.076 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.076** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.076** for each calendar day.
- e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4204)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CFR Part 94.8(1), for all pollutants, for the same model year and maximum engine power of **400 hp** for their pre-2007 model year and later emergency stationary CI ICE with a displacement of 10 liters per cylinder (L/cyl) and less than 30 L/cyl. (40 CFR 60.4204(a), 40 CFR 94.8(a)(1))

(1) The discharge of NO_x to the atmosphere shall not exceed the following limits:

- (a) 17.0 grams/kW-hr when the maximum test speed is less than 130 rpm.
- (b) $45.0 \times N^{-0.20}$ when maximum test speed is at least 130 but less than 2000 rpm, where N is the maximum test speed of the engine in revolutions per minute.
- (c) 9.8 grams/kW-hr when maximum test speed is 2000 rpm or more.

b. Fuel Requirements (40 CFR 60.4207 (b))

The Permittee must meet the following diesel requirements for non-road engines: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209(b))

If your engine is equipped with a diesel particulate filter:

- (1) The Permittee of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in 40 CFR Part 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AU. Emission Unit S2.076 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR Part 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The Permittee must demonstrate compliance according to one of the following methods: (40 CFR 60.4211(b))
 - (a) Purchasing an engine certified according to 40 CFR Part 1068 or 40 CFR Part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. (40 CFR 60.4211(b)(1))
 - (b) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in subpart IIII and these methods must have been followed correctly. (40 CFR 60.4211(b)(2))
 - (c) Keeping records of engine manufacturer data indicating compliance with the standards. (40 CFR 60.4211(b)(3))
 - (d) Keeping records of control device vendor data indicating compliance with the standards. (40 CFR 60.4211(b)(4))
 - (e) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable. (40 CFR 60.4211(b)(5))
- (4) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows (40 CFR 4211(g)):
 - (a) For CI ICE greater than or equal to 100 hp and less than or equal to 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. (40 CFR 4211(g)(2))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AV. Emission Units S2.077 and S2.078**

System 56 – Bulk Energetics Demilitarization System (BEDS)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.077	Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input	4,273,050	355,963
S2.078	Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input	4,273,050	355,963

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.077 and S2.078** shall be controlled by a **Fabric Filter with Lime Injection**.
 - b. Descriptive Stack Parameters
Stack Height: 60.0 feet
Stack Diameter: 2.17 feet
Stack Temperature: 344.0 °F
Exhaust Flow: 6,925.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.077 and S2.078** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.077** shall not exceed **117.0 gallons** per hour, averaged over a calendar day, nor more than **365,040.0 gallons** per 12-month rolling period.
 - c. The maximum allowable fuel consumption rate for **S2.078** shall not exceed **39.0 gallons** per hour, averaged over a calendar day, nor more than **121,680.0 gallons** per 12-month rolling period.
 - d. The maximum allowable throughput rate for **S2.077 and S2.078**, combined, shall not exceed **0.28 tons** of **propellant explosives** per hour, averaged over a calendar day, nor more than **858.0 tons** per 12-month rolling period.
 - e. Hours
 - (1) **S2.077 and S2.078**, each, may operate a total of **24** hours per day.
 - (2) **S2.077 and S2.078**, each, may operate a total of **3,120** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.077 and S2.078**, combined, the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.47 pounds** per hour, nor more than **0.73 tons** per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.93 pounds** per hour, nor more than **1.45 tons** per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.93 pounds** per hour, nor more than **1.45 tons** per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **10.3 pounds** per hour, nor more than **16.1 tons** per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **40.6 pounds** per hour, nor more than **63.3 tons** per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.82 pounds** per hour, nor more than **2.85 tons** per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.29 pounds** per hour, nor more than **0.45 tons** per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the common exhaust stack of **S2.077 and S2.078**, combined, shall not equal or exceed **20** percent.
 - i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.077 and S2.078**, combined, shall not exceed **0.50 pounds** per MMBtu.
 - j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.077 and S2.078**, combined, shall not exceed **15.3 pounds** per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 and S2.078 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

a. Fuel Type

- (1) Monitor and record the consumption rate of **diesel** for each calendar day for **S2.077 and S2.078**, each, (in gallons) by use of a fuel flow meter.
- (2) Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- (3) Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.

b. Material

- (1) Monitor and record the throughput for **S2.077 and S2.078**, combined, for each calendar day.
- (2) Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- (3) Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.

c. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.

d. Conduct and record an observation of visible emissions (excluding water vapor) on the **Fabric Filter with Lime Injection** controlling **S2.077 and S2.078**, combined, on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

e. Inspect the **Fabric Filter with Lime Injection** installed on **S2.077 and S2.078**, combined, on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 and S2.078 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.L. Testing and Sampling** (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.
- f. Method 6C in Appendix A of 40 CFR Part 60 shall be used to determine the sulfur dioxide concentration. Each test will be run for a minimum of one hour.
- g. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- h. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.
- i. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- j. Method 12 in Appendix A of 40 CFR Part 60 shall be used to determine the lead concentration. Each test will be run for a minimum of one hour.
- k. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200)

(1) Replacement Emission Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns (40 CFR 63.1219)

The Permittee shall meet the following replacement standards for hazardous waste incinerators. (40 CFR 63.1219)

(a) *Emission Limits for Existing Sources.* The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain (40 CFR 63.1219(a)):

(i) For dioxins and furans (40 CFR 63.1219(a)(1)):

(I) For incinerators equipped with either a waste heat boiler or dry air pollution control system, either (40 CFR 63.1219(a)(1)(i)):

(A) Emissions in excess of 0.20 ng TEQ/dscm, corrected to 7 percent oxygen; or (40 CFR 63.1219(a)(1)(i)(A))

(B) Emissions in excess of 0.40 ng TEQ/dscm, corrected to 7 percent oxygen, provided that the combustion gas temperature at the inlet to the initial particulate matter control device is 400 °F or lower based on the average of the test run average temperatures. (For purposes of compliance, operation of a wet particulate matter control device is presumed to meet the 400 °F or lower requirement) (40 CFR 63.1219(a)(1)(i)(B));

(II) Emissions in excess of 0.40 ng TEQ/dscm, corrected to 7 percent oxygen, for incinerators not equipped with either a waste heat boiler or dry air pollution control system (40 CFR 63.1219(a)(1)(ii));

(III) A source equipped with a wet air pollution control system followed by a dry air pollution control system is not considered to be a dry air pollution control system, and a source equipped with a dry air pollution control system followed by a wet air pollution control system is considered to be a dry air pollution control system for purposes of this standard (40 CFR 63.1219(a)(1)(iii));

(ii) Mercury in excess of 130 µgm/dscm, corrected to 7 percent oxygen (40 CFR 63.1219(a)(2));

(iii) Cadmium and lead in excess of 230 µgm/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1219(a)(3));

(iv) Arsenic, beryllium, and chromium in excess of 92 µgm/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1219(a)(4));

(v) For carbon monoxide and hydrocarbons, either (40 CFR 63.1219(a)(5)):

(I) Carbon monoxide in excess of 100 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. If the Permittee elects to comply with this carbon monoxide standard rather than the hydrocarbon standard under 40 CFR Part 63.1219(a)(5)(ii), the Permittee must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by 40 CFR Part 63.1206(b)(7), hydrocarbons do not exceed 10 parts per million by volume during those runs, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane; or (40 CFR 63.1219(a)(5)(i))

(II) Hydrocarbons in excess of 10 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane (40 CFR 63.1219(a)(5)(ii));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(1) Replacement Emission Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns (40 CFR 63.1219) (continued)

The Permittee shall meet the following replacement standards for hazardous waste incinerators. (40 CFR 63.1219) (continued)

(a) *Emission Limits for Existing Sources.* The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain (40 CFR 63.1219(a)) (continued):

(vi) Hydrogen chloride and chlorine gas (total chlorine) in excess of 32 parts per million by volume, combined emissions, expressed as a chloride (Cl^-) equivalent, dry basis and corrected to 7 percent oxygen; and (40 CFR 63.1219(a)(6))

(vii) Except as provided by 40 CFR 63.1219(e), particulate matter in excess of 0.013 gr/dscf corrected to 7 percent oxygen. (40 CFR 63.1219(a)(7))

(b) *Destruction and Removal Efficiency (DRE) Standard.* (40 CFR 63.1219(c))

(i) 99.99% DRE. Except as provided in 40 CFR 63.1219(c)(2), the Permittee must achieve a destruction and removal efficiency (DRE) of 99.99% for each principle organic hazardous constituent (POHC) designated under 40 CFR 63.1219(c)(3). The Permittee must calculate DRE for each POHC from the following equation (40 CFR 63.1219(c)(1)):

$$\text{DRE} = [1 - (W_{\text{out}} / W_{\text{in}})] \times 100\%$$

Where:

W_{in} = mass feedrate of one POHC in a waste feedstream; and

W_{out} = mass emission rate of the same POHC present in exhaust emissions prior to release to the

(ii) 99.9999% DRE. If the Permittee burns the dioxin-listed hazardous wastes F020, F021, F022, F023, F026, or F027 (see 40 CFR 261.31), the Permittee must achieve a DRE of 99.9999% for each POHC that you designate under 40 CFR 63.1219(c)(3). The Permittee must demonstrate this DRE performance on POHCs that are more difficult to incinerate than tetra-, penta-, and hexachlorodibenzo-p-dioxins and dibenzofurans. The Permittee must use the equation in 40 CFR 63.1219(c)(1) to calculate DRE for each POHC. In addition, the Permittee must notify the Administrator of intent to incinerate hazardous wastes F020, F021, F022, F023, F026, or F027. (40 CFR 63.1219(c)(2))

(iii) *Principal Organic Hazardous Constituent (POHC).* (40 CFR 63.1219(c)(3))

(I) The Permittee must treat each POHC in the waste feed that is specified by the Permittee under 40 CFR 63.1219(c)(3)(ii) to the extent required by 40 CFR 63.1219(c)(1) and (c)(2). (40 CFR 63.1219(c)(3)(i))

(II) The Permittee must specify one or more POHCs that are representative of the most difficult to destroy organic compounds in your hazardous waste feedstream. The Permittee must base this specification on the degree of difficulty of incineration of the organic constituents in the hazardous waste and on their concentration or mass in the hazardous waste feed, considering the results of hazardous waste analyses or other data and information. (40 CFR 63.1219(c)(3)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(1) Replacement Emission Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns (40 CFR 63.1219) (continued)

The Permittee shall meet the following replacement standards for hazardous waste incinerators. (40 CFR 63.1219) (continued)

(c) *Significant Figures.* The emission limits provided by 40 CFR 63.1219(a) and (b) are presented with two significant figures. Although the Permittee must perform intermediate calculations using at least three significant figures, the Permittee may round the resultant emission levels to two significant figures to document compliance. (40 CFR 63.1219(d))

(d) *Alternative to the Particulate Matter Standard.* (40 CFR 63.1219(e))

(i) *General.* In lieu of complying with the particulate matter standards of 40 CFR 63.1219, the Permittee may elect to comply with the following alternative metal emission control requirement (40 CFR 63.1219(e)(1)):

(I) *Alternative Metal Emission Control Requirements for Existing Incinerators.* (40 CFR 63.1219(e)(2))

(A) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain cadmium, lead, and selenium in excess of 230 µgm/dscm, combined emissions, corrected to 7 percent oxygen; and, (40 CFR 63.1219(e)(2)(i))

(B) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain antimony, arsenic, beryllium, chromium, cobalt, manganese, and nickel in excess of 92 µgm/dscm, combined emissions, corrected to 7 percent oxygen. (40 CFR 63.1219(e)(2)(ii))

(II) *Operating Limits.* Semivolatile and low volatile metal operating parameter limits must be established to ensure compliance with the alternative emission limitations described in 40 CFR 63.1219(e)(2) and (e)(3) pursuant to 40 CFR 63.1209(n), except that semivolatile metal feedrate limits apply to lead, cadmium, and selenium, combined, and low volatile metal feedrate limits apply to arsenic, beryllium, chromium, antimony, cobalt, manganese, and nickel, combined. (40 CFR 63.1219(e)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206)

(a) Compliance Dates. (40 CFR 63.1206(a))

(i) Compliance date for standards under 40 CFR Part 63.1203. (40 CFR 63.1206(a)(1)(i))

(I) Compliance Dates for New or Reconstructed Sources. (40 CFR 63.1206(a)(1)(i)(B))

(A) If the Permittee commenced construction or reconstruction of the hazardous waste combustor after April 19, 1996, the Permittee must comply with the emission standards under 40 CFR Part 63.1203 and the other requirements of 40 CFR Part 63 Subpart EEE by the later of September 30, 1999 or the date the source starts operations, except as provided by 40 CFR Parts 63.1206(a)(1)(i)(A)(1) through (3) and (a)(1)(i)(B)(2). The costs of retrofitting and replacement of equipment that is installed specifically to comply with 40 CFR Part 63 Subpart EEE, between April 19, 1996 and a source's compliance date, are not considered to be reconstruction costs. (40 CFR 63.1206(a)(1)(i)(B)(1))

(B) For a standard under 40 CFR Part 63.1203 that is more stringent than the standard proposed on April 19, 1996, the Permittee may achieve compliance no later than September 30, 2003 if the Permittee complies with the standard proposed on April 19, 1996 after September 30, 1999. This exception does not apply, however, to new or reconstructed area source hazardous waste combustors that become major sources after September 30, 1999. As provided by 40 CFR Part 63.6(b)(7), such sources must comply with the standards under 40 CFR Parts 63.1203, 63.1204, and 63.1205 at startup. (40 CFR 63.1206(a)(1)(i)(B)(2))

(ii) Compliance date for standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1206(a)(1)(ii))

(I) Compliance Dates for New or Reconstructed Sources. (40 CFR 63.1206(a)(1)(ii)(B))

(A) If the Permittee commenced construction or reconstruction of the hazardous waste combustor after April 20, 2004, the Permittee must comply with the new source emission standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221 and the other requirements of 40 CFR Part 63 Subpart EEE by the later of October 12, 2005 or the date the source starts operations, except as provided by 40 CFR Parts 63.1206(a)(1)(ii)(B)(2) and (a)(1)(ii)(B)(3). The costs of retrofitting and replacement of equipment that is installed specifically to comply with this subpart, between April 20, 2004, and a source's compliance date, are not considered to be reconstruction costs. (40 CFR 63.1206(a)(1)(ii)(B)(1))

(B) For a standard under 40 CFR Parts 63.1219, 63.1220, and 63.1221 that is more stringent than the standard proposed on April 20, 2004, the Permittee may achieve compliance no later than October 14, 2008, if the Permittee complies with the standard proposed on April 20, 2004, after October 12, 2005. This exception does not apply, however, to new or reconstructed area source hazardous waste combustors that become major sources after October 14, 2008. As provided by 40 CFR Part 63.6(b)(7), such sources must comply with the standards under 40 CFR Parts 63.1219, 63.1220, and 63.1221 at startup. (40 CFR 63.1206(a)(1)(ii)(B)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (a) Compliance Dates. (40 CFR 63.1206(a)) (continued)
 - (iii) Early Compliance. If the Permittee chooses to comply with the emission standards of 40 CFR Part 63 Subpart EEE prior to the dates specified in 40 CFR Parts 63.1206(a)(1) and (a)(2), the compliance date is the earlier of the date the Permittee postmarks the Notification of Compliance under 40 CFR Part 63.1207(j)(1) or the dates specified in 40 CFR Parts 63.1206(a)(1) and (a)(2). (40 CFR 63.1206(a)(3))
 - (b) Compliance with Standards. (40 CFR 63.1206(b))
 - (i) Applicability. The emission standards and operating requirements set forth in 40 CFR Part 63 Subpart EEE apply at all times except (40 CFR 63.1206(b)(1)):
 - (I) During periods of startup, shutdown, and malfunction; and (40 CFR 63.1206(b)(1)(i))
 - (II) When hazardous waste is not in the combustion chamber (i.e., the hazardous waste feed to the combustor has been cut off for a period of time not less than the hazardous waste residence time) and the Permittee has documented in the operating record that the Permittee is complying with all otherwise applicable requirements and standards promulgated under authority of sections 112 (e.g., 40 CFR Part 63, Subparts LLL, DDDDD, and NNNNN) or 129 of the Clean Air Act in lieu of the emission standards under 40 CFR Parts 63.1203, 63.1204, 63.1205, 63.1215, 63.1216, 63.1217, 63.1218, 63.1219, 63.1220, and 63.1221; the monitoring and compliance standards of 40 CFR Part 63.1206 and 40 CFR Parts 63.1207 through 63.1209, except the modes of operation requirements of 40 CFR Part 63.1209(q); and the notification, reporting, and recordkeeping requirements of 40 CFR Parts 63.1210 through 63.1212. (40 CFR 63.1206(b)(1)(ii))
 - (ii) Methods for Determining Compliance. The Administrator will determine compliance with the emission standards of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Part 63.6(f)(2). Conducting performance testing under operating conditions representative of the extreme range of normal conditions is consistent with the requirements of 40 CFR Parts 63.6(f)(2)(iii)(B) and 63.7(e)(1) to conduct performance testing under representative operating conditions. (40 CFR 63.1206(b)(2))
 - (iii) Finding of Compliance. The Administrator will make a finding concerning compliance with the emission standards and other requirements of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Part 63.6(f)(3). (40 CFR 63.1206(b)(3))
 - (iv) Extension of Compliance with Emission Standards. The Administrator may grant an extension of compliance with the emission standards of 40 CFR Part 63 Subpart EEE as provided by 40 CFR Parts 63.6(i) and 63.1213. (40 CFR 63.1206(b)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (v) Changes in Design, Operation, or Maintenance. (40 CFR 63.1206(b)(5))
 - (I) Changes that May Adversely Affect Compliance. If you plan to change (as defined in paragraph 40 CFR Part 63.1206(b)(5)(iii)) the design, operation, or maintenance practices of the source in a manner that may adversely affect compliance with any emission standard that is not monitored with a CEMS (40 CFR 63.1206(b)(5)(i)):
 - (A) Notification. The Permittee must notify the Administrator at least 60 days prior to the change, unless the Permittee documents circumstances that dictate that such prior notice is not reasonably feasible. The notification must include (40 CFR 63.1206(b)(5)(i)(A)):
 - I. A description of the changes and which emission standards may be affected; and (40 CFR 63.1206(b)(5)(i)(A)(1));
 - II. A comprehensive performance test schedule and test plan under the requirements of 40 CFR Part 63.1207(f) that will document compliance with the affected emission standard(s) (40 CFR 63.1206(b)(5)(i)(A)(2));
 - (B) Performance Test. The Permittee must conduct a comprehensive performance test under the requirements of 40 CFR Parts 63.1207(f)(1) and (g)(1) to document compliance with the affected emission standard(s) and establish operating parameter limits as required under 40 CFR Part 63.1209, and submit to the Administrator a Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d); and (40 CFR 63.1206(b)(5)(i)(B))
 - (C) Restriction on Waste Burning. (40 CFR 63.1206(b)(5)(i)(C))
 - I. Except as provided by 40 CFR Part 63.1206(b)(5)(i)(C)(2), after the change and prior to submitting the notification of compliance, the Permittee must not burn hazardous waste for more than a total of 720 hours (renewable at the discretion of the Administrator) and only for the purposes of pretesting or comprehensive performance testing. Pretesting is defined at 40 CFR Parts 63.1207(h)(2)(i) and (ii). (40 CFR 63.1206(b)(5)(i)(C)(1))
 - II. The Permittee may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. The Permittee must specify operating requirements, including limits on operating parameters, that the Permittee determines will ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE based on available information. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements. (40 CFR 63.1206(b)(5)(i)(C)(2))
 - (II) Changes that Will Not Affect Compliance. If the Permittee determines that a change will not adversely affect compliance with the emission standards or operating requirements, the Permittee must document the change in the operating record upon making such change. The Permittee must revise as necessary the performance test plan, Documentation of Compliance, Notification of Compliance, and start-up, shutdown, and malfunction plan to reflect these changes. (40 CFR 63.1206(b)(5)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (v) Changes in Design, Operation, or Maintenance. (40 CFR 63.1206(b)(5)) (continued)
 - (III) Definition of “Change.” For purposes of 40 CFR Part 63.1206(b)(5), “change” means any change in design, operation, or maintenance practices that were documented in the comprehensive performance test plan, Notification of Compliance, or startup, shutdown, and malfunction plan. (40 CFR 63.1206(b)(5)(iii))
 - s(vi) Compliance with the Carbon Monoxide and Hydrocarbon Emission Standards. This applies to sources that elect to comply with the carbon monoxide and hydrocarbon emissions standards of 40 CFR Part 63 Subpart EEE by documenting continuous compliance with the carbon monoxide standard using a continuous emissions monitoring system and documenting compliance with the hydrocarbon standard during the destruction and removal efficiency (DRE) performance test or its equivalent. (40 CFR 63.1206(b)(6))
 - (I) If a DRE test performed pursuant to 40 CFR Part 63.1207(c)(2) is acceptable as documentation of compliance with the DRE standard, The Permittee may use the highest hourly rolling average hydrocarbon level achieved during the DRE test runs to document compliance with the hydrocarbon standard. An acceptable DRE test is any test for which the data and results are determined to meet quality assurance objectives (on a site-specific basis) such that the results adequately demonstrate compliance with the DRE standard. (40 CFR 63.1206(b)(6)(i))
 - (II) If during this acceptable DRE test the Permittee did not obtain hydrocarbon emissions data sufficient to document compliance with the hydrocarbon standard, the Permittee must either (40 CFR 63.1206(b)(6)(ii)):
 - (A) Perform, as part of the performance test, an “equivalent DRE test” to document compliance with the hydrocarbon standard. An equivalent DRE test is comprised of a minimum of three runs each with a minimum duration of one hour during which the Permittee operate the combustor as close as reasonably possible to the operating parameter limits that the Permittee established based on the initial DRE test. The Permittee must use the highest hourly rolling average hydrocarbon emission level achieved during the equivalent DRE test to document compliance with the hydrocarbon standard; or (40 CFR 63.1206(b)(6)(ii)(A))
 - (B) Perform a DRE test as part of the performance test. (40 CFR 63.1206(b)(6)(ii)(B))
 - (vii) Compliance with the DRE standard. (40 CFR 63.1206(b)(7))
 - (I) Except as provided in 40 CFR Parts 63.1206(b)(7)(ii) and (b)(7)(iii) (40 CFR 63.1206(b)(7)(i)):
 - (A) The Permittee must document compliance with the Destruction and Removal Efficiency (DRE) standard under 40 CFR Part 63 Subpart EEE only once provided that the Permittee does not modify the source after the DRE test in a manner that could affect the ability of the source to achieve the DRE standard. (40 CFR 63.1206(b)(7)(i)(A))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (vii) Compliance with the DRE standard. (40 CFR 63.1206(b)(7)) (continued)
 - (I) Except as provided in 40 CFR Parts 63.1206(b)(7)(ii) and (b)(7)(iii) (40 CFR 63.1206(b)(7)(i)) (continued):
 - (B) The Permittee may use any DRE test data that documents that the Permittee's source achieves the required level of DRE provided (40 CFR 63.1206(b)(7)(i)(B)):
 - I. The Permittee has not modified the design or operation of the Permittee's source in a manner that could affect the ability of the Permittee's source to achieve the DRE standard since the DRE test was performed; and, (40 CFR 63.1206(b)(7)(i)(B)(1))
 - II. The DRE test data meet quality assurance objectives determined on a site-specific basis. (40 CFR 63.1206(b)(7)(i)(B)(2))
 - (II) Sources that feed hazardous waste at locations other than the normal flame zone. (40 CFR 63.1206(b)(7)(ii))
 - (A) Except as provided by 40 CFR Part 63.1206(b)(7)(ii)(B), if hazardous waste is fed at a location in the combustion system other than the normal flame zone, then the Permittee must demonstrate compliance with the DRE standard during each comprehensive performance test (40 CFR 63.1206(b)(7)(ii)(A));
 - (B) If at any time the Permittee changes the design, operation, and maintenance features in a manner that could reasonably be expected to affect the ability to meet the DRE standard, then the Permittee must comply with the requirements of 40 CFR Part 63.1206(b)(7)(ii)(A). (40 CFR 63.1206(b)(7)(ii)(B)(2))
 - (III) For sources that do not use DRE previous testing to document conformance with the DRE standard pursuant to 40 CFR Part 63.1207(c)(2), the Permittee must perform DRE testing during the initial comprehensive performance test. (40 CFR 63.1206(b)(7)(iii))
 - (viii) Applicability of particulate matter and opacity standards during particulate matter CEMS correlation tests. (40 CFR 63.1206(b)(8))
 - (I) Any particulate matter and opacity standards of 40 CFR Parts 60, 61, 63, 264, 265, and 266 (i.e., any Title 40 particulate or opacity standards) applicable to a hazardous waste combustor do not apply while the Permittee conducts particulate matter continuous emissions monitoring system (CEMS) correlation tests (i.e., correlation with manual stack methods) under the conditions of 40 CFR Parts 63.1206(b)(8)(iii) through (vii). (40 CFR 63.1206(b)(8)(i))
 - (II) Any permit or other emissions or operating parameter limits or conditions, including any limitation on workplace practices, that are applicable to hazardous waste combustors to ensure compliance with any particulate matter and opacity standards of 40 CFR Parts 60, 61, 63, 264, 265, and 266 (i.e., any Title 40 particulate or opacity standards) do not apply while the Permittee conducts particulate matter CEMS correlation tests under the conditions of 40 CFR Parts 63.1206(b)(8)(iii) through (vii). (40 CFR 63.1206(b)(8)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (viii) *Applicability of particulate matter and opacity standards during particulate matter CEMS correlation tests.* (40 CFR 63.1206(b)(8)) (continued)
 - (III) For the provisions of this section to apply, the Permittee must (40 CFR 63.1206(b)(8)(iii)):
 - (A) Develop a particulate matter CEMS correlation test plan that includes the following information. This test plan may be included as part of the comprehensive performance test plan required under 40 CFR Parts 63.1207(e) and (f) (40 CFR 63.1206(b)(8)(iii)(A)):
 - I. Number of test conditions and number of runs for each test condition (40 CFR 63.1206(b)(8)(iii)(A)(1));
 - II. Target particulate matter emission level for each test condition (40 CFR 63.1206(b)(8)(iii)(A)(2));
 - III. How the Permittee plans to modify operations to attain the desired particulate matter emission levels; and (40 CFR 63.1206(b)(8)(iii)(A)(3))
 - IV. Anticipated normal particulate matter emission levels; and (40 CFR 63.1206(b)(8)(iii)(A)(4))
 - (B) Submit the test plan to the Administrator for approval at least 90 calendar days before the correlation test is scheduled to be conducted. (40 CFR 63.1206(b)(8)(iii)(B))
 - (IV) The Administrator will review and approve/disapprove the correlation test plan under the procedures for review and approval of the site-specific test plan provided by 40 CFR Parts 63.7(c)(3)(i) and (iii). If the Administrator fails to approve or disapprove the correlation test plan within the time period specified by 40 CFR Part 63.7(c)(3)(i), the plan is considered approved, unless the Administrator has requested additional information. (40 CFR 63.1206(b)(8)(iv))
 - (V) The particulate matter and opacity standards and associated operating limits and conditions will not be waived for more than 96 hours, in the aggregate, for a correlation test, including all runs of all test conditions, unless more time is approved by the Administrator. (40 CFR 63.1206(b)(8)(v))
 - (VI) The stack sampling team must be on-site and prepared to perform correlation testing no later than 24 hours after the Permittee modifies operations to attain the desired particulate matter emissions concentrations, unless you document in the correlation test plan that a longer period of conditioning is appropriate. (40 CFR 63.1206(b)(8)(vi))
 - (VII) The Permittee must return to operating conditions indicative of compliance with the applicable particulate matter and opacity standards as soon as possible after correlation testing is completed. (40 CFR 63.1206(b)(8)(vii))
 - (ix) *Calculation of Hazardous Waste Residence Time.* The Permittee must calculate the hazardous waste residence time and include the calculation in the performance test plan under 40 CFR Part 63.1207(f) and the operating record. The Permittee must also provide the hazardous waste residence time in the Documentation of Compliance under 40 CFR Part 63.1211(c) and the Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d). (40 CFR 63.1206(b)(11))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (b) Compliance with Standards. (40 CFR 63.1206(b)) (continued)
 - (x) *Documenting compliance with the standards based on performance testing.* (40 CFR 63.1206(b)(12))
 - (I) The Permittee must conduct a minimum of three runs of a performance test required under 40 CFR Part 63.1207 to document compliance with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(b)(12)(i))
 - (II) The Permittee must document compliance with the emission standards based on the arithmetic average of the emission results of each run, except that the Permittee must document compliance with the destruction and removal efficiency standard for each run of the comprehensive performance test individually. (40 CFR 63.1206(b)(12)(ii))
 - (xi) *Alternative to the Particulate Matter Standard for Incinerators.* (40 CFR 63.1206(b)(14))
 - (I) *General.* In lieu of complying with the particulate matter standards under 40 CFR Part 63.1203, the Permittee may elect to comply with the following alternative metal emission control requirements (40 CFR 63.1206(b)(14)(i)):
 - (II) *Alternative Metal Emission Control Requirements for Existing Incinerators.* (40 CFR 63.1206(b)(14)(ii))
 - (A) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain cadmium, lead, and selenium in excess of 240 µgm/dscm, combined emissions, corrected to 7 percent oxygen; and, (40 CFR 63.1206(b)(14)(ii)(A))
 - (B) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain antimony, arsenic, beryllium, chromium, cobalt, manganese, and nickel in excess of 97 µgm/dscm, combined emissions, corrected to 7 percent oxygen. (40 CFR 63.1206(b)(14)(ii)(B))
 - (III) *Operating Limits.* Semivolatile and low volatile metal operating parameter limits must be established to ensure compliance with the alternative emission limitations described in 40 CFR Parts 63.1206(b)(14)(ii) and (iii) pursuant to 40 CFR Part 63.1209(n), except that semivolatile metal feedrate limits apply to lead, cadmium, and selenium, combined, and low volatile metal feedrate limits apply to arsenic, beryllium, chromium, antimony, cobalt, manganese, and nickel, combined. (40 CFR 63.1206(b)(14)(iv))
 - (c) Operating Requirements. (40 CFR 63.1206(c))
 - (i) General. (40 CFR 63.1206(c)(1))
 - (I) The Permittee must operate only under the operating requirements specified in the Documentation of Compliance under 40 CFR Part 63.1211(c) or the Notification of Compliance under 40 CFR Parts 63.1207(j) and 63.1210(d), except (40 CFR 63.1206(c)(1)(i)):
 - (A) During performance tests under approved test plans according to 40 CFR Parts 63.1207(e), (f), and (g), and (40 CFR 63.1206(c)(1)(i)(A))
 - (B) Under the conditions of 40 CFR Parts 63.1206(b)(1)(i) or (ii) (40 CFR 63.1206(c)(1)(i)(B));
 - (II) The Documentation of Compliance and the Notification of Compliance must contain operating requirements including, but not limited to, the operating requirements in this section and 40 CFR Part 63.1209. (40 CFR 63.1206(c)(1)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (i) General. (40 CFR 63.1206(c)(1)) (continued)
 - (III) Failure to comply with the operating requirements is failure to ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE (40 CFR 63.1206(c)(1)(iii));
 - (IV) Operating requirements in the Notification of Compliance are applicable requirements for purposes of parts 70 and 71 of this chapter (40 CFR 63.1206(c)(1)(iv));
 - (V) The operating requirements specified in the Notification of Compliance will be incorporated in the Title V permit. (40 CFR 63.1206(c)(1)(v))
 - (ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2))
 - (I) The Permittee is subject to the startup, shutdown, and malfunction plan requirements of 40 CFR Part 63.6(e)(3). (40 CFR 63.1206(c)(2)(i))
 - (II) If the Permittee elects to comply with 40 CFR Parts 270.235(a)(1)(iii), 270.235(a)(2)(iii), or 270.235(b)(1)(ii) to address RCRA concerns that you minimize emissions of toxic compounds from startup, shutdown, and malfunction events (including releases from emergency safety vents) (40 CFR 63.1206(c)(2)(ii)):
 - (A) The startup, shutdown, and malfunction plan must include a description of potential causes of malfunctions, including releases from emergency safety vents, that may result in significant releases of hazardous air pollutants, and actions the source is taking to minimize the frequency and severity of those malfunctions. (40 CFR 63.1206(c)(2)(ii)(A))
 - (B) The Permittee must submit the startup, shutdown, and malfunction plan to the Administrator for review and approval. (40 CFR 63.1206(c)(2)(ii)(B))
 - I. Approval Procedure. The Administrator will notify the Permittee of approval or intention to deny approval of the startup, shutdown, and malfunction plan within 90 calendar days after receipt of the original request and within 60 calendar days after receipt of any supplemental information that the Permittee submits. Before disapproving the plan, the Administrator will notify the Permittee of the Administrator's intention to disapprove the plan together with (40 CFR 63.1206(c)(2)(ii)(B)(1)):
 - A. Notice of the information and findings on which intended disapproval is based; and (40 CFR 63.1206(c)(2)(ii)(B)(1)(i))
 - B. Notice of opportunity for the Permittee to present additional information to the Administrator before final action on disapproval of the plan. At the time the Administrator notifies the Permittee of intention to disapprove the plan, the Administrator will specify how much time the Permittee will have after being notified on the intended disapproval to submit additional information. (40 CFR 63.1206(c)(2)(ii)(B)(1)(ii))
 - II. Responsibility of the Permittee. The Permittee is responsible for ensuring that the submittal of any supplementary and additional information supporting the Permittee's plan in a timely manner to enable the Administrator to consider whether to approve the plan. Neither the Permittee's submittal of the plan, nor the Administrator's failure to approve or disapprove the plan, relieves the Permittee of the responsibility to comply with the provisions of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(2)(ii)(B)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)) (continued)
 - (II) If the Permittee elects to comply with 40 CFR Parts 270.235(a)(1)(iii), 270.235(a)(2)(iii), or 270.235(b)(1)(ii) to address RCRA concerns that you minimize emissions of toxic compounds from startup, shutdown, and malfunction events (including releases from emergency safety vents) (40 CFR 63.1206(c)(2)(ii)) (continued):
 - (C) Changes to the Plan that may Significantly Increase Emissions. (40 CFR 63.1206(c)(2)(ii)(C))
 - I. The Permittee must request approval in writing from the Administrator within 5 days after making a change to the startup, shutdown, and malfunction plan that may significantly increase emissions of hazardous air pollutants. (40 CFR 63.1206(c)(2)(ii)(C)(1))
 - II. To request approval of such changes to the startup, shutdown, and malfunction plan, the Permittee must follow the procedures provided by 40 CFR Part 63.1206(c)(2)(ii)(B) for initial approval of the plan. (40 CFR 63.1206(c)(2)(ii)(C)(2))
 - (III) The Permittee must identify in the plan a projected oxygen correction factor based on normal operations to use during periods of startup and shutdown. (40 CFR 63.1206(c)(2)(iii))
 - (IV) The Permittee must record the plan in the operating record. (40 CFR 63.1206(c)(2)(iv))
 - (V) Operating Under the Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)(v))
 - (A) Compliance with AWWCO Requirements During Malfunctions. (40 CFR 63.1206(c)(2)(v)(A))
 - I. During malfunctions, the automatic waste feed cutoff requirements of 40 CFR Part 12.0663.1206(c)(3) continue to apply, except for 40 CFR Parts 63.1206(c)(3)(v) and (c)(3)(vi). If the Permittee exceeds a 40 CFR Part 63 Subpart EEE emission standard monitored by a CEMS or COMs or operating limit specified under 40 CFR Part 63.1209, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed, except as provided by 40 CFR Part 63.1206(c)(3)(viii). If the malfunction itself prevents immediate and automatic cutoff of the hazardous waste feed, however, the Permittee must cease feeding hazardous waste as quickly as possible. (40 CFR 63.1206(c)(2)(v)(A)(1))
 - II. Although the automatic waste feed cutoff requirements continue to apply during a malfunction, an exceedance of an emission standard monitored by a CEMS or COMS or operating limit specified under 40 CFR Part 63.1209 is not a violation of 40 CFR Part 63 Subpart EEE if the Permittee takes the corrective measures prescribed in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(A)(2))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ii) Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)) (continued)
 - (V) Operating Under the Startup, Shutdown, and Malfunction Plan. (40 CFR 63.1206(c)(2)(v)) (continued)
 - (A) Compliance with AWFCO Requirements During Malfunctions. (40 CFR 63.1206(c)(2)(v)(A))
 - III. Excessive Exceedances During Malfunctions. For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the Permittee must (40 CFR 63.1206(c)(2)(v)(A)(3)):
 - A. Within 45 days of the 10th exceedance, complete an investigation of the cause of each exceedance and evaluation of approaches to minimize the frequency, duration, and severity of each exceedance, and revise the startup, shutdown, and malfunction plan as warranted by the evaluation to minimize the frequency, duration, and severity of each exceedance; and (40 CFR 63.1206(c)(2)(v)(A)(3)(i))
 - B. Record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the startup, shutdown, and malfunction plan, in the excess emissions report required under 40 CFR Part 63.10(e)(3). (40 CFR 63.1206(c)(2)(v)(A)(3)(ii))
- (B) Compliance with AWFCO Requirements When Burning Hazardous Waste During Startup and Shutdown. (40 CFR 63.1206(c)(2)(v)(B))
 - I. If the Permittee feeds hazardous waste during startup or shutdown, the Permittee must include waste feed restrictions (e.g., type and quantity), and other appropriate operating conditions and limits in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(B)(1))
 - II. The Permittee must interlock the operating limits you establish under 40 CFR Part 63.1206(c)(2)(v)(B)(1) with the automatic waste feed cutoff system required under 40 CFR Part 63.1206(c)(3), except for 40 CFR Parts 63.1206(c)(3)(v) and (c)(3)(vi). (40 CFR 63.1206(c)(2)(v)(B)(2))
 - III. When feeding hazardous waste during startup or shutdown, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed if you exceed the operating limits you establish under 40 CFR Part 63.1206(c)(2)(v)(B)(1), except as provided by 40 CFR Part 63.1206(c)(3)(viii). (40 CFR 63.1206(c)(2)(v)(B)(3))
 - IV. Although the automatic waste feed cutoff requirements of 40 CFR Part 63.1206(c)(2)(v)(B)(4) apply during startup and shutdown, an exceedance of an emission standard or operating limit is not a violation of 40 CFR Part 63 Subpart EEE if the Permittee complies with the operating procedures prescribed in the startup, shutdown, and malfunction plan. (40 CFR 63.1206(c)(2)(v)(B)(4))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (iii) Automatic Waste Feed Cutoff (AWFCO) (40 CFR 63.1206(c)(3))
 - (I) General. Upon the compliance date, the Permittee must operate the hazardous waste combustor with a functioning system that immediately and automatically cuts off the hazardous waste feed, except as provided by 40 CFR Part 63.1206(c)(3)(viii) (40 CFR 63.1206(c)(3)(i)):
 - (A) When any of the following are exceeded: Operating parameter limits specified under 40 CFR Part 63.1209; an emission standard monitored by a CEMS; and the allowable combustion chamber pressure (40 CFR 63.1206(c)(3)(i)(A));
 - (B) When the span value of any CMS detector, except a CEMS, is met or exceeded (40 CFR 63.1206(c)(3)(i)(B));
 - (C) Upon malfunction of a CMS monitoring an operating parameter limit specified under 40 CFR Part 63.1209 or an emission level; or (40 CFR 63.1206(c)(3)(i)(C));
 - (D) When any component of the automatic waste feed cutoff system fails. (40 CFR 63.1206(c)(3)(i)(D))
 - (II) Ducting of Combustion Gases. During an AWFCO, the Permittee must continue to duct combustion gasses to the air pollution control system while hazardous waste remains in the combustion chamber (i.e., if the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated). (40 CFR 63.1206(c)(3)(ii))
 - (III) Restarting Waste Feed. The Permittee must continue to monitor during the cutoff the operating parameters for which limits are established under 40 CFR Part 63.1209 and the emissions required under that section to be monitored by a CEMS, and you must not restart the hazardous waste feed until the operating parameters and emission levels are within the specified limits. (40 CFR 63.1206(c)(3)(iii))
 - (IV) Failure of the AWFCO System. If the AWFCO system fails to automatically and immediately cutoff the flow of hazardous waste upon exceedance of a parameter required to be interlocked with the AWFCO system under 40 CFR Part 63.1206(c)(3)(i), the Permittee has failed to comply with the AWFCO requirements of 40 CFR Part 63.1209(c)(3). If an equipment or other failure prevents immediate and automatic cutoff of the hazardous waste feed, however, the Permittee must cease feeding hazardous waste as quickly as possible. (40 CFR 63.1206(c)(3)(iv))
 - (V) Corrective Measures. If, after any AWFCO, there is an exceedance of an emission standard or operating requirement, irrespective of whether the exceedance occurred while hazardous waste remained in the combustion chamber (i.e., whether the hazardous waste residence time has transpired since the hazardous waste feed cutoff system was activated), the Permittee must investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the operating record. (40 CFR 63.1206(c)(3)(v))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (iii) Automatic Waste Feed Cutoff (AWFCO) (40 CFR 63.1206(c)(3))
 - (VI) Excessive Exceedance Reporting. (40 CFR 63.1206(c)(3)(vi))
 - (A) For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, you must submit to the Administrator a written report within 5 calendar days of the 10th exceedance documenting the exceedances and results of the investigation and corrective measures taken. (40 CFR 63.1206(c)(3)(vi)(A))
 - (B) On a case-by-case basis, the Administrator may require excessive exceedance reporting when fewer than 10 exceedances occur during a 60-day block period. (40 CFR 63.1206(c)(3)(vi)(B))
 - (VII) Testing. The AWFCO system and associated alarms must be tested at least weekly to verify operability, unless the Permittee documents in the operating record that weekly inspections will unduly restrict or upset operations and that less frequent inspection will be adequate. At a minimum, the Permittee must conduct operability testing at least monthly. The Permittee must document and record in the operating record AWFCO operability test procedures and results. (40 CFR 63.1206(c)(3)(vii))
 - (VIII) Ramping Down Waste Feed. (40 CFR 63.1206(c)(3)(viii))
 - (A) The Permittee may ramp down the waste feedrate of pumpable hazardous waste over a period not to exceed one minute, except as provided by 40 CFR Part 63.1206(c)(3)(viii)(B). If the Permittee elects to ramp down the waste feed, the Permittee must document ramp down procedures in the operating and maintenance plan. The procedures must specify that the ramp down begins immediately upon initiation of automatic waste feed cutoff and the procedures must prescribe a bona fide ramping down. If an emission standard or operating limit is exceeded during the ramp down, the Permittee has failed to comply with the emission standards or operating requirements of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(3)(viii)(A))
 - (B) If the automatic waste feed cutoff is triggered by an exceedance of any of the following operating limits, the Permittee may not ramp down the waste feed cutoff: Minimum combustion chamber temperature, maximum hazardous waste feedrate, or any hazardous waste firing system operating limits that may be established for the combustor. (40 CFR 63.1206(c)(3)(viii)(B))
 - (iv) ESV Openings (40 CFR 63.1206(c)(4))
 - (I) Failure to meet standards. If an emergency safety vent (ESV) opens when hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not expired) during an event other than a malfunction as defined in the startup, shutdown, and malfunction plan such that combustion gases are not treated as during the most recent comprehensive performance test (e.g., if the combustion gas by-passes any emission control device that was operating during the performance test), the Permittee must document in the operating record whether the Permittee remains in compliance with the emission standards of 40 CFR Part 63 Subpart EEE considering emissions during the ESV opening event. (40 CFR 63.1206(c)(4)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (iv) ESV Openings (40 CFR 63.1206(c)(4)) (continued)
 - (II) ESV Operating Plan. (40 CFR 63.1206(c)(4)(ii))
 - (A) The Permittee must develop an ESV operating plan, comply with the operating plan, and keep the plan in the operating record. (40 CFR 63.1206(c)(4)(ii)(A))
 - (B) The ESV operating plan must provide detailed procedures for rapidly stopping the waste feed, shutting down the combustor, and maintaining temperature and negative pressure in the combustion chamber during the hazardous waste residence time, if feasible. The plan must include calculations and information and data documenting the effectiveness of the plan's procedures for ensuring that combustion chamber temperature and negative pressure are maintained as is reasonably feasible. (40 CFR 63.1206(c)(4)(ii)(B))
 - (III) Corrective Measures. After any ESV opening that results in a failure to meet the emission standards as defined in 40 CFR Part 63.1206(c)(4)(i), the Permittee must investigate the cause of the ESV opening, take appropriate corrective measures to minimize such future ESV openings, and record the findings and corrective measures in the operating record. (40 CFR 63.1206(c)(4)(iii))
 - (IV) Reporting Requirements. The Permittee must submit to the Administrator a written report within 5 days of an ESV opening that results in failure to meet the emission standards of 40 CFR Part 63 Subpart EEE (as determined in 40 CFR Part 63.1206(c)(4)(i)) documenting the result of the investigation and corrective measures taken. (40 CFR 63.1206(c)(4)(iv))
 - (v) Combustion System Leaks. (40 CFR 63.1206(c)(5))
 - (I) Combustion system leaks of hazardous air pollutants must be controlled by (40 CFR 63.1206(c)(5)(i)):
 - (A) Keeping the combustion zone sealed to prevent combustion system leaks; or (40 CFR 63.1206(c)(5)(i)(A))
 - (B) Maintaining the maximum combustion zone pressure lower than ambient pressure using an instantaneous monitor; or (40 CFR 63.1206(c)(5)(i)(B))
 - (C) Upon prior written approval of the Administrator, an alternative means of control to provide control of combustion system leaks equivalent to maintenance of combustion zone pressure lower than ambient pressure; or (40 CFR 63.1206(c)(5)(i)(C))
 - (D) Upon prior written approval of the Administrator, other technique(s) which can be demonstrated to prevent fugitive emissions without use of instantaneous pressure limits; and (40 CFR 63.1206(c)(5)(i)(D))
 - (II) The Permittee must specify in the performance test workplan and Notification of Compliance the method that will be used to control combustion system leaks. If the Permittee controls combustion system leaks by maintaining the combustion zone pressure lower than ambient pressure using an instantaneous monitor, the Permittee must also specify in the performance test workplan and Notification of Compliance the monitoring and recording frequency of the pressure monitor, and specify how the monitoring approach will be integrated into the automatic waste feed cutoff system. (40 CFR 63.1206(c)(5)(ii))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(vi) Operator Training and Certification (40 CFR 63.1206(c)(6))

(I) The Permittee must establish training programs for all categories of personnel whose activities may reasonably be expected to directly affect emissions of hazardous air pollutants from the source. Such persons include, but are not limited to, chief facility operators, control room operators, continuous monitoring system operators, persons that sample and analyze feedstreams, persons that manage and charge feedstreams to the combustor, persons that operate emission control devices, and ash and waste handlers. Each training program shall be of a technical level commensurate with the person's job duties specified in the training manual. Each commensurate training program shall require an examination to be administered by the instructor at the end of the training course. Passing of this test shall be deemed the "certification" for personnel, except that, for control room operators, the training and certification program shall be as specified in 40 CFR Parts 63.1206(c)(6)(iii) through (c)(6)(vi). (40 CFR 63.1206(c)(6)(i))

(II) The Permittee must ensure that the source is operated and maintained at all times by persons who are trained and certified to perform these and any other duties that may affect emissions of hazardous air pollutants. A certified control room operator must be on duty at the site at all times the source is in operation. (40 CFR 63.1206(c)(6)(ii))

(III) Hazardous waste incinerator control room operators must (40 CFR 63.1206(c)(6)(iii)):

(A) Be trained and certified under a site-specific, source-developed and implemented program that meets the requirements of 40 CFR Part 63.1206(c)(6)(v); or (40 CFR 63.1206(c)(6)(iii)(A))

(B) Be trained under the requirements of, and certified under, one of the following American Society of Mechanical Engineers (ASME) standards: QHO-1-1994, QHO-1a-1996, or QHO-1-2004 (Standard for the Qualification and Certification of Hazardous Waste Incinerator Operators). If you elect to use the ASME program (40 CFR 63.1206(c)(6)(iii)(B)):

I. Control room operators must, prior to the compliance date, achieve provisional certification, and must submit an application to ASME and be scheduled for the full certification exam. Within one year of the compliance date, control room operators must achieve full certification (40 CFR 63.1206(c)(6)(iii)(B)(1));

II. New operators and operators of new sources must, before assuming their duties, achieve provisional certification, and must submit an application to ASME, and be scheduled for the full certification exam. Within one year of assuming their duties, these operators must achieve full certification; or (40 CFR 63.1206(c)(6)(iii)(B)(2))

(C) Be trained and certified under a State program. (40 CFR 63.1206(c)(6)(iii)(C))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (vi) Operator Training and Certification (40 CFR 63.1206(c)(6)) (continued)
 - (V) Site-specific, source developed and implemented training programs for control room operators must include the following elements (40 CFR 63.1206(c)(6)(v)):
 - (A) Training on the subjects listed under 40 CFR Parts 63.1206(c)(6)(v)(A)(1) through (9). (40 CFR 63.1206(c)(6)(v)(A));
 - (B) An examination designed and administered by the instructor; and (40 CFR 63.1206(c)(6)(v)(B))
 - (C) Written material covering the training course topics that may serve as reference material following completion of the course. (40 CFR 63.1206(c)(6)(v)(C))
 - (VI) To maintain control room operator qualification under a site-specific, source developed and implemented training program as provided by 40 CFR Part 63.1206(c)(6)(v), control room operators must complete an annual review or refresher course covering, at a minimum, the following topics (40 CFR 63.1206(c)(6)(vi)):
 - (A) Update of regulations (40 CFR 63.1206(c)(6)(vi)(A));
 - (B) Combustor operation, including startup and shutdown procedures, waste firing, and residue handling (40 CFR 63.1206(c)(6)(vi)(B));
 - (C) Inspection and maintenance (40 CFR 63.1206(c)(6)(vi)(C));
 - (D) Responses to malfunctions or conditions that may lead to malfunction; and (40 CFR 63.1206(c)(6)(vi)(D))
 - (E) Operating problems encountered by the operator. (40 CFR 63.1206(c)(6)(vi)(E))
 - (VII) The Permittee must record the operator training and certification program in the operating record. (40 CFR 63.1206(c)(6)(vii))
 - (vii) Operation and Maintenance Plan (40 CFR 63.1206(c)(7))
 - (I) The Permittee must prepare and at all times operate according to an operation and maintenance plan that describes in detail procedures for operation, inspection, maintenance, and corrective measures for all components of the combustor, including associated pollution control equipment, that could affect emissions of regulated hazardous air pollutants. (40 CFR 63.1206(c)(7)(i))
 - (II) The plan must prescribe how you will operate and maintain the combustor in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels achieved during the comprehensive performance test. (40 CFR 63.1206(c)(7)(ii))
 - (III) This plan ensures compliance with the operation and maintenance requirements of 40 CFR Part 63.6(e) and minimizes emissions of pollutants, automatic waste feed cutoffs, and malfunctions. (40 CFR 63.1206(c)(7)(iii))
 - (IV) The Permittee must record the plan in the operating record. (40 CFR 63.1206(c)(7)(iv))
 - (viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8))
 - (I) If the combustor is equipped with a baghouse (fabric filter), the Permittee must continuously operate either (40 CFR 63.1206(c)(8)(i)):
 - (A) A bag leak detection system that meets the specifications and requirements of 40 CFR Part 63.1206(c)(8)(ii) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(8)(iii) and (iv); or (40 CFR 63.1206(c)(8)(i)(A))
 - (B) A particulate matter detection system under 40 CFR Part 63.1206(c)(9). (40 CFR 63.1206(c)(8)(i)(B))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)
 - (II) Bag Leak Detection System Specification and Requirements. (40 CFR 63.1206(c)(8)(ii))
 - (A) The bag leak detection system must be certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligrams per actual cubic meter unless the Permittee demonstrates, under 40 CFR Part 63.1209(g)(1), that a higher detection limit would routinely detect particulate matter loadings during normal operations (40 CFR 63.1206(c)(8)(ii)(A));
 - (B) The bag leak detection system shall provide output of relative or absolute particulate matter loadings (40 CFR 63.1206(c)(8)(ii)(B));
 - (C) The bag leak detection system shall be equipped with an alarm system that will sound an audible alarm when an increase in relative particulate loadings is detected over a preset level (40 CFR 63.1206(c)(8)(ii)(C));
 - (D) The bag leak detection system shall be installed and operated in a manner consistent with available written guidance from the U.S. Environmental Protection Agency or, in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, and adjustment of the system (40 CFR 63.1206(c)(8)(ii)(D));
 - (E) The initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time (40 CFR 63.1206(c)(8)(ii)(E));
 - (F) Following initial adjustment, the Permittee must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in the operation and maintenance plan required under 40 CFR Part 63.1206(c)(7). The Permittee must not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365 day period unless such adjustment follows a complete baghouse inspection which demonstrates the baghouse is in good operating condition (40 CFR 63.1206(c)(8)(ii)(F));
 - (G) For negative pressure or induced air baghouses, and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag leak detector shall be installed downstream of the baghouse and upstream of any wet acid gas scrubber; and (40 CFR 63.1206(c)(8)(ii)(G))
 - (H) Where multiple detectors are required, the system's instrumentation and alarm system may be shared among the detectors. (40 CFR 63.1206(c)(8)(ii)(H))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)

(III) Bag Leak Detection System Corrective Measures Requirements. The operating and maintenance plan required by 40 CFR Part 63.1206(c)(7) must include a corrective measures plan that specifies the procedures the Permittee will follow in the case of a bag leak detection system alarm or malfunction. The corrective measures plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm or bag leak detection system malfunction in accordance with the requirements of 40 CFR Part 63.1206(c)(8)(iii)(A) as well as the corrective measures taken to correct the control device or bag leak detection system malfunction or to minimize emissions in accordance with the requirements of 40 CFR Part 63.1206(c)(8)(iii)(B). Failure to initiate the corrective measures required by this paragraph is failure to ensure compliance with the emission standards in 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(8)(iii))

(A) The Permittee must initiate the procedures used to determine the cause of the alarm or bag leak detection system malfunction within 30 minutes of the time the alarm first sounds; and (40 CFR 63.1206(c)(8)(iii)(A))

(B) The Permittee must alleviate the cause of the alarm or bag leak detection system malfunction by taking the necessary corrective measure(s) which may include, but are not to be limited to, the following (40 CFR 63.1206(c)(8)(iii)(B)):

- I. Inspecting the baghouse for air leaks, torn or broken filter elements, or any other malfunction that may cause an increase in emissions (40 CFR 63.1206(c)(8)(iii)(B)(1));
- II. Sealing off defective bags or filter media (40 CFR 63.1206(c)(8)(iii)(B)(2));
- III. Replacing defective bags or filter media, or otherwise repairing the control device (40 CFR 63.1206(c)(8)(iii)(B)(3));
- IV. Sealing off a defective baghouse compartment (40 CFR 63.1206(c)(8)(iii)(B)(4));
- V. Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system; or (40 CFR 63.1206(c)(8)(iii)(B)(5))
- VI. Shutting down the combustor. (40 CFR 63.1206(c)(8)(iii)(B)(6))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(viii) Bag Leak Detection System Requirements. (40 CFR 63.1206(c)(8)) (continued)

(IV) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or the bag leak detection system is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and bag leak detection system malfunctions and the revisions to the design, operation, or maintenance of the combustor, baghouse, or bag leak detection system the Permittee is taking to minimize exceedances and bag leak detection system malfunctions. To document compliance with this requirement (40 CFR 63.1206(c)(8)(iv)):

(A) The Permittee must keep records of the date, time, and duration of each alarm and bag leak detection system malfunction, the time corrective action was initiated and completed, and a brief description of the cause of the alarm or bag leak detection system malfunction and the corrective action taken (40 CFR 63.1206(c)(8)(iv)(A));

(B) The Permittee must record the percent of the operating time during each 6-month period that the alarm sounds and the bag leak detection system malfunctions (40 CFR 63.1206(c)(8)(iv)(B));

(C) If inspection of the fabric filter demonstrates that no corrective action is required, then no alarm time is counted; and (40 CFR 63.1206(c)(8)(iv)(C))

(D) If corrective action is required, each alarm shall be counted as a minimum of 1 hour. Each bag leak detection system malfunction shall also be counted as a minimum of 1 hour. (40 CFR 63.1206(c)(8)(iv)(D))

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9))

(I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i))

(A) The PMDS must be certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligrams per actual cubic meter unless the Permittee demonstrates, under 40 CFR Part 63.1209(g)(1), that a higher detection limit would routinely detect particulate matter loadings during normal operations (40 CFR 63.1206(c)(9)(i)(A));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i)) (continued)

(B) The particulate matter detector shall provide output of relative or absolute particulate matter loadings (40 CFR 63.1206(c)(9)(i)(B));

(C) The PMDS shall be equipped with an alarm system that will sound an audible alarm when an increase in relative or absolute particulate loadings is detected over the set-point (40 CFR 63.1206(c)(9)(i)(C));

(D) The Permittee must install, operate, and maintain the PMDS in a manner consistent with the provisions of 40 CFR Part 63.1209(c)(9) and available written guidance from the U.S. Environmental Protection Agency or, in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, maintenance and quality assurance of the system. (40 CFR 63.1206(c)(9)(i)(D))

I. Set-points established without extrapolation. If you establish the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that will reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below those demonstrated during the comprehensive performance test. The Permittee's recommended quality assurance procedures may include periodic testing under as-found conditions (i.e., normal operations) to obtain additional PM concentration and PMDS response run pairs, as warranted. (40 CFR 63.1206(c)(9)(i)(D)(1))

II. Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that will reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the value that correlates to the alarm set-point. (40 CFR 63.1206(c)(9)(i)(D)(2))

(E) The Permittee must include procedures for installation, operation, maintenance, and quality assurance of the PMDS in the site-specific continuous monitoring system test plan required under 40 CFR Parts 63.1207(e) and 63.8(e)(3) (40 CFR 63.1206(c)(9)(i)(E));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)
 - (I) PMDS Requirements. (40 CFR 63.1206(c)(9)(i)) (continued)
 - (F) Where multiple detectors are required to monitor multiple control devices, the system's instrumentation and alarm system may be shared among the detectors. (40 CFR 63.1206(c)(9)(i)(F))
 - (G) The Permittee must establish the alarm set-point as a 6-hour rolling average as provided by 40 CFR Parts 63.1206(c)(9)(ii), (c)(9)(iii), and (c)(9)(iv) (40 CFR 63.1206(c)(9)(i)(G));
 - (H) The Permittee's PMDS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. The Permittee must update the 6-hour rolling average of the detector response each hour with a one-hour block average that is the average of the detector responses over each 15-minute block; and (40 CFR 63.1206(c)(9)(i)(H))
 - (I) If the Permittee exceeds the alarm set-point (or if your PMDS malfunctions), the Permittee must comply with the corrective measures under 40 CFR Part 63.1206(c)(9)(vii). (40 CFR 63.1206(c)(9)(i)(I))
 - (II) Establishing the Alarm Set-Point for Operations Under the Documentation of Compliance. The Permittee must establish the alarm set-point for operations under the Documentation of Compliance (i.e., after the compliance date but prior to submitting a Notification of Compliance subsequent to conducting the initial comprehensive performance test) of an existing source as stated under 40 CFR Parts 63.1206(c)(9)(ii)(A) through (D). (40 CFR 63.1206(c)(9)(ii))
 - (III) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii))
 - (A) Establishing the Initial Set-Point Without Extrapolation. (40 CFR 63.1206(c)(9)(iii)(A))
 - I. If the Permittee establishes the initial alarm set-point without extrapolation, the alarm set-point is the average of the test run averages of the PMDS response during the runs of the comprehensive performance test that document compliance with the PM emission standard. (40 CFR 63.1206(c)(9)(iii)(A)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

- a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)
 - (2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)
 - (c) Operating Requirements. (40 CFR 63.1206(c)) (continued)
 - (ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)
 - (II) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii)) (continued)
 - (A) Establishing the Initial Set-Point Without Extrapolation. (40 CFR 63.1206(c)(9)(iii)(A)) (continued)
 - II. During the comprehensive performance test, the Permittee may simulate PM emission concentrations at the upper end of the range of normal operations by means including feeding high levels of ash and detuning the emission control equipment. (40 CFR 63.1206(c)(9)(iii)(A)(2))
 - (B) Establishing the Initial Set-point by Extrapolation. The Permittee may extrapolate the particulate matter detector response to establish the alarm set-point under the procedures (40 CFR 63.1206(c)(9)(iii)(B)):
 - I. The Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the procedures the Permittee will use to establish an approximate correlation curve using the three pairs of 40 CFR Part 60 Appendix A-3 Method 5 or 5I data and PMDS data from the comprehensive performance test, the data pairs used to establish the correlation curve for the Documentation of Compliance under 40 CFR Part 63.1206(c)(9)(ii), and additional data pairs, as warranted. (40 CFR 63.1206(c)(9)(iii)(B)(1))
 - II. The Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the Permittee's determination of whether multiple correlation curves are needed considering the design and operation of the Permittee's combustor and PMDS. If so, the Permittee must recommend the number of data pairs needed to establish those correlation curves and how the data will be obtained. (40 CFR 63.1206(c)(9)(iii)(B)(2))
 - III. During the comprehensive performance test, The Permittee may simulate PM emission concentrations at the upper end of the range of normal operations by means including feeding high levels of ash and detuning the emission control equipment. (40 CFR 63.1206(c)(9)(iii)(B)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(II) Establishing the Initial Alarm Set-Point for Operations Under the Notification of Compliance. The Permittee must establish the initial alarm set-point for operations under the Notification of Compliance as provided by either 40 CFR Parts 63.1206(c)(9)(iii)(A) or (c)(9)(iii)(B). The Permittee must periodically revise the alarm set-point as provided by 40 CFR Part 63.1206(c)(9)(iv). (40 CFR 63.1206(c)(9)(iii)) (continued)

(B) Establishing the Initial Set-point by Extrapolation. The Permittee may extrapolate the particulate matter detector response to establish the alarm set-point under the procedures (40 CFR 63.1206(c)(9)(iii)(B)):

IV. Data obtained up to 60 months prior to the comprehensive performance test may be used provided that the design and operation of the combustor or PMDS has not changed in a manner that may adversely affect the correlation of PM concentrations and PMDS response. (40 CFR 63.1206(c)(9)(iii)(B)(4))

V. The Permittee may include a zero point correlation value. To establish a zero point, the Permittee must follow the procedures under 40 CFR Part 63.1206(c)(9)(ii)(C)(2). (40 CFR 63.1206(c)(9)(iii)(B)(5))

VI. The Permittee must use a least-squares regression model to correlate PM concentrations to PMDS responses for data pairs. The Permittee may assume a linear regression model approximates the relationship between PM concentrations and PMDS responses. (40 CFR 63.1206(c)(9)(iii)(B)(6))

VII. The Permittee must establish the alarm set-point as the PMDS response that corresponds to a PM concentration that is 50% of the PM emission standard or 125% of the highest PM concentration used to develop the correlation, whichever is greater. The emission concentration used to extrapolate the PMDS response must not exceed the PM emission standard. (40 CFR 63.1206(c)(9)(iii)(B)(7))

(IV) Revising the Notification of Compliance Alarm Set-Point (40 CFR 63.1206(c)(9)(iv))

(A) Revising Set-Points Established without Extrapolation. If the Permittee establishes the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must establish a new alarm set-point in the Notification of Compliance following each comprehensive performance test as the average of the test run averages of the PMDS response during the runs of the comprehensive performance test that document compliance with the PM emission standard. (40 CFR 63.1206(c)(9)(iv)(A))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(IV) Revising the Notification of Compliance Alarm Set-Point (40 CFR 63.1206(c)(9)(iv)) (continued)

(B) Revising Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the procedures for periodically revising the alarm set-point, considering the additional data pairs obtained during periodic comprehensive performance tests and data pairs obtained from other tests, such as for quality assurance. (40 CFR 63.1206(c)(9)(iv)(B))

(V) Quality Assurance (40 CFR 63.1206(c)(9)(v))

(A) Set-Points Established without Extrapolation. If the Permittee establishes the alarm set-point without extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(A), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the average of the PM concentrations demonstrated during the comprehensive performance test. The Permittee's recommended quality assurance procedures may include periodic testing under as-found conditions (i.e., normal operations) to obtain additional PM concentration and PMDS response run pairs, as warranted. (40 CFR 63.1206(c)(9)(v)(A))

(B) Set-Points Established with Extrapolation. If the Permittee establishes the alarm set-point by extrapolation under 40 CFR Part 63.1206(c)(9)(iii)(B), the Permittee must request approval from the regulatory authority, in the continuous monitoring system test plan, of the quality assurance procedures that reasonably ensure that PMDS response values below the alarm set-point correspond to PM emission concentrations below the value that correlated to the alarm set-point. (40 CFR 63.1206(c)(9)(v)(B))

(VI) PMDS are used for Compliance Assurance only. For a PMDS for which the alarm set-point is established by extrapolation using a correlation curve under 40 CFR Parts 63.1206(c)(9)(ii), (c)(9)(iii)(B), and (c)(9)(iv)(B), an exceedance of the PMDS response that appears to correlate with a PM concentration that exceeds the PM emission standard is not by itself evidence that the standard has been exceeded. (40 CFR 63.1206(c)(9)(vi))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(VII) PMDS Corrective Measures Requirements. The operating and maintenance plan required by 40 CFR Part 63.1206(c)(7) must include a corrective measures plan that specifies the procedures the Permittee will follow in the case of a PMDS alarm or malfunction. The corrective measures plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm or PMDS malfunction as well as the corrective measures taken to correct the control device or PMDS malfunction or minimize emissions as specified below. Failure to initiate the corrective measures required by 40 CFR Part 63.1206(c)(9)(vi) is failure to ensure compliance with the emission standards in 40 CFR Part 63 Subpart EEE. (40 CFR 63.1206(c)(9)(vii))

(A) The Permittee must initiate the procedures used to determine the cause of the alarm or PMDS malfunction within 30 minutes of the time the alarm first sounds or the PMDS malfunctions; and (40 CFR 63.1206(c)(9)(vii)(A))

(B) The Permittee must alleviate the cause of the alarm or the PMDS malfunction by taking the necessary corrective measure(s) which may include shutting down the combustor. (40 CFR 63.1206(c)(9)(vii)(B))

(VIII) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or when the PMDS is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and the revisions to the design, operation, or maintenance of the combustor, emission control device, or PMDS the Permittee is taking to minimize exceedances. To document compliance with this requirement (40 CFR 63.1206(c)(9)(viii)):

(A) The Permittee must keep records of the date, time, and duration of each alarm and PMDS malfunction, the time corrective action was initiated and completed, and a brief description of the cause of the alarm or PMDS malfunction and the corrective action taken (40 CFR 63.1206(c)(9)(viii)(A));

(B) The Permittee must record the percent of the operating time during each 6-month period that the alarm sounds and the PMDS malfunctions (40 CFR 63.1206(c)(9)(viii)(B));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(2) Monitoring and Compliance Provisions (40 CFR 63.1206) (continued)

(c) Operating Requirements. (40 CFR 63.1206(c)) (continued)

(ix) Particulate Matter Detection System Requirements. The Permittee must continuously operate a particulate matter detection system (PMDS) that meets the specifications and requirements of 40 CFR Parts 63.1206(c)(9)(i) through (v) and the Permittee must comply with the corrective measures and notification requirements of 40 CFR Parts 63.1206(c)(9)(vii) and (viii) if the combustor either: Is equipped with an electrostatic precipitator or ionizing wet scrubber and the Permittee does not establish site-specific control device operating parameter limits under 40 CFR Part 63.1209(m)(1)(iv) that are linked to the automatic waste feed cutoff system under 40 CFR Part 63.1206(c)(3), or is equipped with a baghouse (fabric filter) and you do not operate a bag leak detection system as provided by 40 CFR Part 63.1206(c)(8)(i)(B). (40 CFR 63.1206(c)(9)) (continued)

(VIII) Excessive Exceedances Notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point or when the PMDS is malfunctioning more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and the revisions to the design, operation, or maintenance of the combustor, emission control device, or PMDS the Permittee is taking to minimize exceedances. To document compliance with this requirement (40 CFR 63.1206(c)(9)(viii)) (continued):

(C) If inspection of the emission control device demonstrates that no corrective action is required, then no alarm time is counted; and (40 CFR 63.1206(c)(9)(viii)(C))

(D) If corrective action to the emission control device is required, each alarm shall be counted as a minimum of 1 hour. Each PMDS malfunction shall also be counted as a minimum of 1 hour. (40 CFR 63.1206(c)(9)(viii)(D))

(3) Performance Testing Requirements (40 CFR 63.1207)

The Permittee shall follow the performance testing requirements under 40 CFR Part 63.1207 as applicable.

(4) Test Methods (40 CFR 63.1208)

The Permittee shall follow the test methods under 40 CFR Part 63.1208 as applicable.

(5) Monitoring Requirements (40 CFR 63.1209)

(a) Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS). (40 CFR 63.1209(a))

(i) CEMS & COMS Pollutant Types (40 CFR 63.1209(a)(1))

(I) The Permittee must use either a carbon monoxide or hydrocarbon CEMS to demonstrate and monitor compliance with the carbon monoxide and hydrocarbon standard under 40 CFR Part 63 Subpart EEE. The Permittee must also use an oxygen CEMS to continuously correct the carbon monoxide or hydrocarbon level to 7 percent oxygen. (40 CFR Part 63.1209(a)(1)(i))

(II) COMS Requirements (40 CFR 63.1209 (a)(1)(ii))

(A) The Permittee must maintain and operate each COMS in accordance with the requirements of 40 CFR Part 63.8(c) except for the requirements under 40 CFR Part 63.8(c)(3). The requirements of 40 CFR Part 63.1211(c) shall be complied with instead of 40 CFR Part 63.8(c)(3); and (40 CFR 63.1209 (a)(1)(ii)(C))

(B) Compliance is based on a six-minute block average. (40 CFR 63.1209 (a)(1)(ii)(D))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).* (40 CFR 63.1209(a)) (continued)

(i) *CEMS & COMS Pollutant Types* (40 CFR 63.1209(a)(1)) (continued)

(III) The Permittee must install, calibrate, maintain, and operate a particulate matter CEMS to demonstrate and monitor compliance with the particulate matter standards under 40 CFR Part 63 Subpart EEE. However, compliance with the requirements in this section to install, calibrate, maintain and operate the PM CEMS is not required until such time that the Agency promulgates all performance specifications and operational requirements applicable to PM CEMS. (40 CFR 63.1209 (a)(1)(iii))

(ii) *Performance Specifications.* The Permittee must install, calibrate, maintain, and continuously operate the CEMS and COMS in compliance with the quality assurance procedures provided in the appendix to 40 CFR Part 63 Subpart EEE and Performance Specifications 1 (opacity), 4B (carbon monoxide and oxygen), and 8A (hydrocarbons) in 40 CFR Part 60 Appendix B. (40 CFR Part 63.1209(a)(2))

(iii) *Carbon Monoxide Readings Exceeding the Span.* (40 CFR 63.1209(a)(3))

(I) Except as provided by 40 CFR Part 63.1209(a)(3)(ii), if a carbon monoxide CEMS detects a response that results in a one-minute average at or above the 3,000 ppmv span level required by Performance Specification 4B in 40 CFR Part 60 Appendix B, part 60, the one-minute average must be recorded as 10,000 ppmv. The one-minute 10,000 ppmv value must be used for calculating the hourly rolling average carbon monoxide level. (40 CFR 63.1209(a)(3)(i))

(II) Carbon monoxide CEMS that use a span value of 10,000 ppmv when one-minute carbon monoxide levels are equal to or exceed 3,000 ppmv are not subject to 40 CFR Part 63.1209(a)(3)(i). Carbon monoxide CEMS that use a span value of 10,000 are subject to the same CEMS performance and equipment specifications when operating in the range of 3,000 ppmv to 10,000 ppmv that are provided by Performance Specification 4B for other carbon monoxide CEMS, except (40 CFR 63.1209(a)(3)(ii)):

(A) Calibration drift must be less than 300 ppmv; and (40 CFR 63.1209(a)(3)(ii)(A))

(B) Calibration error must be less than 500 ppmv. (40 CFR 63.1209(a)(3)(ii)(B))

(iv) *Hydrocarbon Readings Exceeding the Span.* (40 CFR 63.1209(a)(4))

(I) Except as provided by 40 CFR Part 63.1209(a)(4)(ii), if a hydrocarbon CEMS detects a response that results in a one-minute average at or above the 100 ppmv span level required by Performance Specification 8A in 40 CFR Part 60 Appendix B the one-minute average must be recorded as 500 ppmv. The one-minute 500 ppmv value must be used for calculating the hourly rolling average HC level. (40 CFR 63.1209(a)(4)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).* (40 CFR 63.1209(a)) (continued)

(iv) *Hydrocarbon Readings Exceeding the Span.* (40 CFR 63.1209(a)(4)) (continued)

(II) Hydrocarbon CEMS that use a span value of 500 ppmv when one-minute hydrocarbon levels are equal to or exceed 100 ppmv are not subject to 40 CFR Part 63.1209(a)(4)(i). Hydrocarbon CEMS that use a span value of 500 ppmv are subject to the same CEMS performance and equipment specifications when operating in the range of 100 ppmv to 500 ppmv that are provided by Performance Specification 8A for other hydrocarbon CEMS, except those specified under 40 CFR Parts 63.1209(a)(4)(ii)(A) through (E). (40 CFR 63.1209(a)(4)(ii))

(A) The zero and high-level calibration gas must have a hydrocarbon level of between 0 and 100 ppmv, and between 250 and 450 ppmv, respectively (40 CFR 63.1209(a)(4)(ii)(A));

(B) The strip chart recorder, computer, or digital recorder must be capable of recording all readings within the CEM measurement range and must have a resolution of 2.5 ppmv (40 CFR 63.1209(a)(4)(ii)(B));

(C) The CEMS calibration must not differ by more than ± 15 ppmv after each 24-hour period of the seven day test at both zero and high levels (40 CFR 63.1209(a)(4)(ii)(C));

(D) The calibration error must be no greater than 25 ppmv; and (40 CFR 63.1209(a)(4)(ii)(D))

(E) The zero level, mid-level, and high level calibration gas used to determine calibration error must have a hydrocarbon level of 0-200 ppmv, 150-200 ppmv, and 350-400 ppmv, respectively. (40 CFR 63.1209(a)(4)(ii)(E))

(v) *Petitions to Use CEMS for Other Standards.* The Permittee may petition the Administrator to use CEMS for compliance monitoring for particulate matter, mercury, semivolatile metals, low volatile metals, and hydrogen chloride and chlorine gas under 40 CFR Part 63.8(f) in lieu of compliance with the corresponding operating parameter limits under 40 CFR Part 63.1209. (40 CFR 63.1209(a)(5))

(vi) *Calculation of Rolling Averages* (40 CFR 63.1209(a)(6))

(I) *Calculation of Rolling Averages Initially.* The carbon monoxide or hydrocarbon CEMS must begin recording one-minute average values by 12:01 a.m. and hourly rolling average values by 1:01 a.m., when 60 one-minute values will be available for calculating the initial hourly rolling average for those sources that come into compliance on the regulatory compliance date. Sources that elect to come into compliance before the regulatory compliance date must begin recording one-minute and hourly rolling average values within 60 seconds and 60 minutes (when 60 one-minute values will be available for calculating the initial hourly rolling average), respectively, from the time at which compliance begins. (40 CFR 63.1209(a)(6)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(a) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).* (40 CFR 63.1209(a)) (continued)

(vi) *Calculation of Rolling Averages* (40 CFR 63.1209(a)(6)) (continued)

(II) *Calculation of Rolling Averages Upon Intermittent Operations.* The Permittee must ignore periods of time when one-minute values are not available for calculating the hourly rolling average. When one-minute values become available again, the first one-minute value is added to the previous 59 values to calculate the hourly rolling average. (40 CFR 63.1209(a)(6)(ii))

(III) *Calculation of Rolling Averages when the Hazardous Waste Feed is Cutoff.* (40 CFR 63.1209(a)(6)(iii))

(A) Except as provided by 40 CFR Part 63.1209(a)(6)(iii)(B), the Permittee must continue monitoring carbon monoxide and hydrocarbons when the hazardous waste feed is cutoff if the source is operating. The Permittee must not resume feeding hazardous waste if the emission levels exceed the standard. (40 CFR 63.1209(a)(6)(iii)(A))

(B) The Permittee is not subject to the CEMS requirements of 40 CFR Part 63 Subpart EEE during periods of time the Permittee meets the requirements of 40 CFR Part 63.1206(b)(1)(ii) (compliance with emissions standards for nonhazardous waste burning sources when the Permittee is not burning hazardous waste). (40 CFR 63.1209(a)(6)(iii)(B))

(vii) *Operating Parameter Limits for Hydrocarbons.* If the Permittee elects to comply with the carbon monoxide and hydrocarbon emission standard by continuously monitoring carbon monoxide with a CEMS, the Permittee must demonstrate that hydrocarbon emissions during the comprehensive performance test do not exceed the hydrocarbon emissions standard. In addition, the limits the Permittee establishes on the destruction and removal efficiency (DRE) operating parameters required under 40 CFR Part 63.1209(j) also ensure that the Permittee maintains compliance with the hydrocarbon emission standard. If the Permittee does not conduct the hydrocarbon demonstration and DRE tests concurrently, the Permittee must establish separate operating parameter limits under 40 CFR Part 63.1209(j) based on each test and the more restrictive of the operating parameter limits applies. (40 CFR 63.1209(a)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(b) Other Continuous Monitoring Systems (CMS). (40 CFR 63.1209(b))

- (i) The Permittee must use CMS (e.g., thermocouples, pressure transducers, flow meters) to document compliance with the applicable operating parameter limits under 40 CFR Part 63.1209. (40 CFR 63.1209(b)(1))
- (ii) The Permittee must install and operate continuous monitoring systems other than CEMS in conformance with 40 CFR Part 63.8(c)(3) that requires the Permittee, at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system (40 CFR 63.1209(b)(2)):
- (iii) CMS must sample the regulated parameter without interruption, and evaluate the detector response at least once each 15 seconds, and compute and record the average values at least every 60 seconds. (40 CFR 63.1209(b)(3))
- (iv) The span of the non-CEMS CMS detector must not be exceeded. The Permittee must interlock the span limits into the automatic waste feed cutoff system required by 40 CFR Part 63.1206(c)(3). (40 CFR 63.1209(b)(4))
- (v) The Permittee shall follow the *Calculation of Rolling Averages* requirements under 40 CFR Parts 63.1209(b)(5)(i) through (iii). (40 CFR 63.1209(b)(5))

(c) Analysis of Feedstreams (40 CFR 63.1209(c))

- (i) *General*. Prior to feeding the material, The Permittee must obtain an analysis of each feedstream that is sufficient to document compliance with the applicable feedrate limits provided by 400 CFR Part 63.1209. (40 CFR 63.1209(c)(1))
- (ii) *Feedstream Analysis Plan*. The Permittee must develop and implement a feedstream analysis plan and record it in the operating record. The plan must specify at a minimum those listed under 40 CFR Parts 63.1209(c)(2)(i) through (vi). (40 CFR 63.1209(c)(2))
- (iii) *Review and Approval of Analysis Plan*. The Permittee must submit the feedstream analysis plan to the Administrator for review and approval, if requested. (40 CFR 63.1209(c)(3))
- (iv) *Compliance with Feedrate Limits*. To comply with the applicable feedrate limits of 40 CFR Part 63.1209, the Permittee must monitor and record feedrates as described under 40 CFR Parts 63.1209(c)(4)(i) through (iii). (40 CFR 63.1209(c)(4))
- (v) *Waiver of Monitoring of Constituents in Certain Feedstreams*. The Permittee is not required to monitor levels of metals or chlorine in the following feedstreams to document compliance with the feedrate limits under this section provided that the Permittee documents in the comprehensive performance test plan the expected levels of the constituent in the feedstream and account for those assumed feedrate levels in documenting compliance with feedrate limits: natural gas, process air, and feedstreams from vapor recovery systems. (40 CFR 63.1209(c)(5))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(d) Performance Evaluations. (40 CFR 63.1209(d))

(i) The requirements of 40 CFR Parts 63.8(d) (Quality control program) and (e) (Performance evaluation of continuous monitoring systems) apply, except that the Permittee must conduct performance evaluations of components of the CMS under the frequency and procedures (for example, submittal of performance evaluation test plan for review and approval) applicable to performance tests as provided by 40 CFR Part 63.1207. (40 CFR 63.1209(d)(1))

(ii) The Permittee must comply with the quality assurance procedures for CEMS prescribed in the appendix to 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(d)(2))

(e) Conduct of Monitoring. The provisions of 40 CFR Part 63.8(b) apply. (40 CFR 63.1209(e))

(f) Operation and Maintenance of Continuous Monitoring Systems. The provisions of 40 CFR Part 63.8(c) apply except (40 CFR 63.1209(f)):

(i) 40 CFR Part 63.8(c)(3). The requirements of 40 CFR Part 63.1211(c), that requires CMSs to be installed, calibrated, and operational on the compliance date, shall be complied with instead of 40 CFR Part 63.8(c)(3) (40 CFR 63.1209(f)(1));

(ii) 40 CFR Part 63.8(c)(4)(ii). The performance specifications for carbon monoxide, hydrocarbon, and oxygen CEMSs in 40 CFR Part 60 Subpart B that requires detectors to measure the sample concentration at least once every 15 seconds for calculating an average emission rate once every 60 seconds shall be complied with instead of 40 CFR Part 63.8(c)(4)(ii); and (40 CFR 63.1209(f)(2))

(iii) 40 CFR Parts 63.8(c)(4)(i), (c)(5), and (c)(7)(i)(C) pertaining to COMS apply only to Permittees of hazardous waste burning cement kilns. (40 CFR 63.1209(f)(3))

(g) Alternative Monitoring Requirements other than Continuous Emissions Monitoring Systems (CEMS) (40 CFR 63.1209(g))

(i) The Permittee may request the use of *Alternatives to Operating Parameter Monitoring Requirements* by following the steps under 40 CFR Parts 63.1209(g)(1)(i) through (iv). (40 CFR 63.1209(g)(1))

(ii) Administrator's Discretion to Specify Additional or Alternative Requirements. The Administrator may determine on a case-by-case basis at any time (e.g., during review of the comprehensive performance test plan, during compliance certification review) that the Permittee may need to limit additional or alternative operating parameters (e.g., opacity in addition to or in lieu of operating parameter limits on the particulate matter control device) or that alternative approaches to establish limits on operating parameters may be necessary to document compliance with the emission standards of this 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(g)(2))

(h) Reduction of Monitoring Data. The provisions of 40 CFR Part 63.8(g) apply. (40 CFR 63.1209(h))

(i) When an Operating Parameter is Applicable to Multiple Standards. 40 CFR Parts 63.1209(j) through (p) require the Permittee to establish limits on operating parameters based on comprehensive performance testing to ensure you maintain compliance with the emission standards of 40 CFR Part 63 Subpart EEE. For several parameters, the Permittee must establish a limit for the parameter to ensure compliance with more than one emission standard. An example is a limit on minimum combustion chamber temperature to ensure compliance with both the DRE standard of 40 CFR Part 63.1209(j) and the dioxin/furan standard of 40 CFR Part 63.1209(k). If the performance tests for such standards are not performed simultaneously, the most stringent limit for a parameter derived from independent performance tests applies. (40 CFR 63.1209(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(j) *DRE.* To remain in compliance with the destruction and removal efficiency (DRE) standard, the Permittee must establish operating limits during the comprehensive performance test (or during a previous DRE test under provisions of 40 CFR Part 63.1206(b)(7)) for the following parameters, unless the limits are based on manufacturer specifications, and comply with those limits at all times that hazardous waste remains in the combustion chamber (i.e., the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated) (40 CFR 63.1209(j));

(i) *Minimum Combustion Chamber Temperature.* (40 CFR 63.1209(j)(1))

(I) The Permittee must measure the temperature of each combustion chamber at a location that best represents, as practicable, the bulk gas temperature in the combustion zone. The Permittee must document the temperature measurement location in the test plan the Permittee submits under 40 CFR Part 63.1207(e) (40 CFR 63.1209(j)(1)(i));

(II) The Permittee must establish a minimum hourly rolling average limit as the average of the test run averages (40 CFR 63.1209(j)(1)(ii));

(ii) *Maximum Flue Gas Flowrate or Production Rate.* (40 CFR 63.1209(j)(2))

(I) As an indicator of gas residence time in the control device, the Permittee must establish and comply with a limit on the maximum flue gas flowrate, the maximum production rate, or another parameter that the Permittee documents in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each run. (40 CFR 63.1209(j)(2)(i))

(II) The Permittee must comply with this limit on a hourly rolling average basis; (40 CFR 63.1209(j)(2)(ii))

(iii) *Maximum Hazardous Waste Feedrate.* (40 CFR 63.1209(j)(3))

(I) The Permittee must establish limits on the maximum pumpable and total (i.e., pumpable and nonpumpable) hazardous waste feedrate for each location where hazardous waste is fed. (40 CFR 63.1209(j)(3)(i))

(II) The Permittee must establish the limits as the average of the maximum hourly rolling averages for each run. (40 CFR 63.1209(j)(3)(ii))

(III) The Permittee must comply with the feedrate limit(s) on a hourly rolling average basis; (40 CFR 63.1209(j)(3)(iii))

(iv) *Operation of Waste Firing System.* The Permittee must specify operating parameters and limits to ensure that good operation of each hazardous waste firing system is maintained. (40 CFR 63.1209(j)(4))

(k) *Dioxins and Furans.* The Permittee must comply with the dioxin and furans emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(k)(1) through (9). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(k))

(l) *Mercury.* The Permittee must comply with the mercury emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(l)(1) through (4). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(l))

(m) *Particulate Matter.* The Permittee must comply with the particulate matter emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(m)(1) through (3). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(m))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

- (n) *Semivolatile Metals and Low Volatility Metals.* The Permittee must comply with the semivolatile metal (cadmium and lead) and low volatile metal (arsenic, beryllium, and chromium) emission standards by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(n)(1) through (5). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(n))
- (o) *Hydrogen Chloride and Chlorine Gas.* The Permittee must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with the operating parameter limits as described under 40 CFR Parts 63.1209(o)(1) through (4). The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. (40 CFR 63.1209(o))
- (p) *Maximum Combustion Chamber Pressure.* If the Permittee complies with the requirements for combustion system leaks under 40 CFR Part 63.1206(c)(5) by maintaining the maximum combustion chamber zone pressure lower than ambient pressure to prevent combustion systems leaks from hazardous waste combustion, the Permittee must perform instantaneous monitoring of pressure and the automatic waste feed cutoff system must be engaged when negative pressure is not adequately maintained. (40 CFR 63.1209(p))
- (q) *Operating Under Different Modes of Operation.* If the Permittee operates under different modes of operation, the Permittee must establish operating parameter limits for each mode. The Permittee must document in the operating record when you change a mode of operation and begin complying with the operating limits for an alternative mode of operation. (40 CFR 63.1209(q))
 - (i) Operating under otherwise applicable standards after the hazardous waste residence time has transpired. As provided by 40 CFR Part 63.1206(b)(1)(ii), the Permittee may operate under otherwise applicable requirements promulgated under sections 112 and 129 of the Clean Air Act in lieu of the substantive requirements of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(q)(1))
 - (I) The otherwise applicable requirements promulgated under sections 112 and 129 of the Clean Air Act are applicable requirements under 40 CFR Part 63 Subpart EEE. (40 CFR 63.1209(q)(1)(i))
 - (II) The Permittee must specify (e.g., by reference) the otherwise applicable requirements as a mode of operation in the Permittee's Documentation of Compliance under 40 CFR Part 63.1211(c), the Permittee's Notification of Compliance under 40 CFR Part 63.1207(j), and the Permittee's title V permit application. These requirements include the otherwise applicable requirements governing emission standards, monitoring and compliance, and notification, reporting, and recordkeeping. (40 CFR 63.1209(q)(1)(ii))
 - (ii) *Calculating Rolling Averages Under Different Modes of Operation.* When the Permittee transitions to a different mode of operation, the Permittee must calculate rolling averages as follows (40 CFR 63.1209(q)(2)):
 - (I) *Retrieval Approach.* Calculate rolling averages anew using the continuous monitoring system values previously recorded for that mode of operation (i.e., the Permittee ignores continuous monitoring system values subsequently recorded under other modes of operation when the Permittee transitions back to a mode of operation); or (40 CFR 63.1209(q)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(5) Monitoring Requirements (40 CFR 63.1209) (continued)

(q) *Operating Under Different Modes of Operation.* If the Permittee operates under different modes of operation, the Permittee must establish operating parameter limits for each mode. The Permittee must document in the operating record when you change a mode of operation and begin complying with the operating limits for an alternative mode of operation. (40 CFR 63.1209(q)) (continued)

(ii) *Calculating Rolling Averages Under Different Modes of Operation.* When the Permittee transitions to a different mode of operation, the Permittee must calculate rolling averages as follows (40 CFR 63.1209(q)(2)) (continued):

(II) *Start Anew.* Calculate rolling averages anew without considering previous recordings. (40 CFR 63.1209(q)(2)(ii))

(A) Rolling averages must be calculated as the average of the available one-minute values for the parameter until enough one-minute values are available to calculate hourly or 12-hour rolling averages, whichever is applicable to the parameter. (40 CFR 63.1209(q)(2)(ii)(A))

(B) The Permittee may not transition to a new mode of operation using this approach if the most recent operation in that mode resulted in an exceedance of an applicable emission standard measured with a CEMS or operating parameter limit prior to the hazardous waste residence time expiring; or (40 CFR 63.1209(q)(2)(ii)(B))

(III) *Seamless Transition.* Continue calculating rolling averages using data from the previous operating mode provided that both the operating limit and the averaging period for the parameter are the same for both modes of operation. (40 CFR 63.1209(q)(2)(iii))

(r) *Averaging Periods.* The averaging periods specified in 40 CFR Part 63.1209 for operating parameters are not-to-exceed averaging periods. The Permittee may elect to use shorter averaging periods. For example, the Permittee may elect to use a 1-hour rolling average rather than the 12-hour rolling average specified in 40 CFR Part 63.1209(l)(1)(i) for mercury. (40 CFR 63.1209(r))

(6) Notification Requirements (40 CFR 63.1210)

(a) *Summary of Requirements* (40 CFR 63.1210(a))

(i) The Permittee shall submit the notifications listed under 40 CFR Part 63.1210(a)(1) to the Administrator. The Permittee may also be required on a case-by-case basis to submit a feedstream analysis plan under 40 CFR Part 63.1209(c)(3). (40 CFR 63.1210(a)(1))

(ii) The Permittee shall submit the notifications listed under 40 CFR Part 1210(a)(2) to the Administrator if the Permittee requests or elects to comply with alternative requirements. (40 CFR 63.1210(a)(2))

(b) *Notification of Intent to Comply (NIC).* These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b))

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1));

(I) General Information (40 CFR 63.1210(b)(1)(i));

(A) The name and address of the Permittee and the source (40 CFR 63.1210(b)(1)(i)(A));

(B) Whether the source is a major or an area source (40 CFR 63.1210(b)(1)(i)(B));

(C) Waste minimization and emission control technique(s) being considered (40 CFR 63.1210(b)(1)(i)(C));



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(b) *Notification of Intent to Comply (NIC)*. These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b))

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1)) (continued);

(I) General Information (40 CFR 63.1210(b)(1)(i)) (continued):

(D) Emission monitoring technique(s) the Permittee is considering (40 CFR 63.1210(b)(1)(i)(D));

(E) Waste minimization and emission control technique(s) effectiveness (40 CFR 63.1210(b)(1)(i)(E));

(F) A description of the evaluation criteria used or to be used to select waste minimization and/or emission control technique(s); and (40 CFR 63.1210(b)(1)(i)(F))

(G) A general description of how the Permittee intends to comply with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1210(b)(1)(i)(G))

(II) As applicable to each source, information on key activities and estimated dates for these activities that will bring the source into compliance with emission control requirements of 40 CFR Part 60 Subpart EEE. The Permittee must include all of the following key activities and dates in the Permittee's NIC (40 CFR 63.1210(b)(1)(ii)):

(A) The dates by which the Permittee anticipates the Permittee will develop engineering designs for emission control systems or process changes for emissions (40 CFR 63.1210(b)(1)(ii)(A));

(B) The date by which the Permittee anticipates the Permittee will commit internal or external resources for installing emission control systems or making process changes for emission control, or the date by which the Permittee will issue orders for the purchase of component parts to accomplish emission control or process changes. (40 CFR 63.1210(b)(1)(ii)(B));

(C) The date by which the Permittee anticipates the Permittee will submit construction applications (40 CFR 63.1210(b)(1)(ii)(C));

(D) The date by which the Permittee anticipates the Permittee will initiate on-site construction, installation of emission control equipment, or process change (40 CFR 63.1210(b)(1)(ii)(D));

(E) The date by which the Permittee anticipates the Permittee will complete on-site construction, installation of emission control equipment, or process change; and (40 CFR 63.1210(b)(1)(ii)(E))

(F) The date by which you anticipate the Permittee will achieve final compliance. The individual dates and milestones listed in 40 CFR Parts 63.1210(b)(1)(ii)(A) through (F) as part of the NIC are not requirements and therefore are not enforceable deadlines; the requirements of 40 CFR Parts 1210(b)(1)(ii)(A) through (F) must be included as part of the NIC only to inform the public of how the Permittee intends to comply with the emission standards of this 40 CFR Part 63 Subpart EEE. (40 CFR 63.1210(b)(1)(ii)(F))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(b) *Notification of Intent to Comply (NIC)*. These procedures apply to sources that have not previously complied with the requirements of 40 CFR Parts 63.1210(b) and (c), and to sources that previously complied with the NIC requirements of 40 CFR Parts 63.1210 and 63.1212(a), which were in effect prior to October 11, 2000, that must make a technology change requiring a Class 1 permit modification to meet the standards of 40 CFR Parts 63.1219, 63.1220, and 63.1221. (40 CFR 63.1210(b)) (continued)

(i) The Permittee must prepare a Notification of Intent to Comply that includes all of the following information (40 CFR 63.1210(b)(1)) (continued);

(III) A summary of the public meeting required under 40 CFR Part 63.1210(c); (40 CFR 63.1210(b)(1)(iii))

(IV) If the Permittee intends to cease burning hazardous waste prior to or on the compliance date, the requirements of 40 CFR Parts 63.1210(b)(1)(ii) and (b)(1)(iii) do not apply. The Permittee must include in the NIC a schedule of key dates for the steps to be taken to stop hazardous waste activity at your combustion unit. Key dates include the date for submittal of RCRA closure documents required under 40 CFR Part 63 Subpart G, Part 264 or Subpart G, Part 265. (40 CFR 63.1210(b)(1)(iv))

(ii) The Permittee must make a draft of the NIC available for public review no later than 30 days prior to the public meeting required under 40 CFR Part 63.1210(c)(1) or no later than 9 months after the effective date of the rule if the Permittee intends to cease burning hazardous waste prior to or on the compliance date. (40 CFR 63.1210(b)(2))

(iii) The Permittee must submit the final NIC to the Administrator (40 CFR 63.1210(b)(3)):

(I) *Existing Units*. No later than one year following the effective date of the emission standards of 40 CFR Part 63 Subpart EEE; or (40 CFR 63.1210(b)(3)(i))

(c) *NIC Public Meeting and Notice*. (40 CFR 63.1210(c))

(i) Prior to the submission of the NIC to the permitting agency and (40 CFR 63.1210(c)(1)):

(I) *New Units*. No earlier than thirty (30) days following notice of the informal public meeting, the Permittee must hold at least one informal meeting with the public to discuss the anticipated activities described in the draft NIC for achieving compliance with the emission standards of 40 CFR Part 63 Subpart EEE. The Permittee must post a sign-in sheet or otherwise provide a voluntary opportunity for attendees to provide their names and addresses. (40 CFR 63.1210(c)(2))

(ii) The Permittee must submit a summary of the meeting, along with the list of attendees and their addresses developed under 40 CFR Part 63.1210(b)(1), and copies of any written comments or materials submitted at the meeting, to the Administrator as part of the final NIC, in accordance with 40 CFR Part 63.1210(b)(1)(iii) (40 CFR 63.1210(c)(2));

(iii) The Permittee must provide public notice of the NIC meeting at least 30 days prior to the meeting and the Permittee must maintain, and provide to the Administrator upon request, documentation of the notice. The Permittee must provide public notice in all of the forms listed under 40 CFR Parts 63.1210(c)(3)(i) through (iv). (40 CFR 63.1210(c)(3))

(iv) The Permittee must include all of the parameters listed under 40 CFR Parts 63.1210(c)(4)(i) through (iv) in the notices required under 40 CFR Part 63.1210(c)(3). (40 CFR 63.1210(c)(4))

(v) The requirements of 40 CFR Part 63.1210(c) do not apply to sources that intend to cease burning hazardous waste prior to or on the compliance date. (40 CFR 63.1210(c)(5))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(6) Notification Requirements (40 CFR 63.1210) (continued)

(d) Notification of Compliance. (40 CFR 63.1210(d))

(i) The Notification of Compliance status requirements of 40 CFR Part 63.9(h) apply, except that (40 CFR 63.1210(d)(1)):

(I) The notification is a Notification of Compliance, rather than compliance status (40 CFR 63.1210(d)(1)(i));

(II) The notification is required for the initial comprehensive performance test and each subsequent comprehensive and confirmatory performance test; and (40 CFR 63.1210(d)(1)(ii))

(III) The Permittee must postmark the notification before the close of business on the 90th day following completion of relevant compliance demonstration activity specified in 40 CFR Part 63 Subpart EEE rather than the 60th day as required by 40 CFR Part 63.9(h)(2)(ii). (40 CFR 63.1210(d)(1)(iii))

(ii) Upon postmark of the Notification of Compliance, the operating parameter limits identified in the Notification of Compliance, as applicable, shall be complied with, the limits identified in the Documentation of Compliance or a previous Notification of Compliance are no longer applicable. (40 CFR 63.1210(d)(2))

(iii) The Notification of Compliance requirements of 40 CFR Part 63.1207(j) also apply. (40 CFR 63.1210(d)(3))

(7) Recordkeeping and Reporting Requirements (40 CFR 63.1211)

(a) Summary of Reporting Requirements. The Permittee shall submit the reports listed under 40 CFR Part 63.1211(a) to the Administrator. (40 CFR 63.1211(a))

(b) Summary of Recordkeeping Requirements. The Permittee shall retain the document, data, or information listed under 40 CFR Part 1211(b) in the operating record. (40 CFR 63.1211(b))

(c) Documentation and Compliance. (40 CFR 63.1211(c))

(i) By the compliance date, the Permittee must develop and include in the operating record a Documentation of Compliance. The Permittee is not subject to this requirement, however, if the Permittee submits a Notification of Compliance under 40 CFR Part 63.1207(j) prior to the compliance date. Upon inclusion of the Documentation of Compliance in the operating record, hazardous waste burning incinerators, cement kilns, and lightweight aggregate kilns regulated under the interim standards of 40 CFR Parts 63.1203, 63.1204, and 63.1205 are no longer subject to compliance with the previously applicable Notification of Compliance. (40 CFR 63.1211(c)(1))

(ii) The Documentation of Compliance must identify the applicable emission standards under 40 CFR Part 63 Subpart EEE and the limits on the operating parameters under 40 CFR Part 63.1209 that will ensure compliance with those emission standards. (40 CFR 63.1211(c)(2))

(iii) The Permittee must include a signed and dated certification in the Documentation of Compliance that (40 CFR 63.1211(c)(3)):

(I) Required CEMs and CMS are installed, calibrated, and continuously operating in compliance with the requirements of this subpart; and (40 CFR 63.1211(c)(3)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(7) Recordkeeping and Reporting Requirements (40 CFR 63.1211) (continued)

(c) Documentation and Compliance. (40 CFR 63.1211(c)) (continued)

(iii) The Permittee must include a signed and dated certification in the Documentation of Compliance that (40 CFR 63.1211(c)(3)) (continued):

(II) Based on an engineering evaluation prepared under the Permittee's direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information and supporting documentation, and considering at a minimum the design, operation, and maintenance characteristics of the combustor and emissions control equipment, the types, quantities, and characteristics of feedstreams, and available emissions data (40 CFR 63.1211(c)(3)(i)):

(A) The Permittee is in compliance with the emission standards of 40 CFR Part 63 Subpart EEE; and (40 CFR 63.1211(c)(3)(i)(A))

(B) The limits on the operating parameters under 40 CFR Part 63.1209 ensure compliance with the emission standards of 40 CFR Part 63 Subpart EEE. (40 CFR 63.1211(c)(3)(i)(B))

(iv) The Permittee must comply with the emission standards and operating parameter limits specified in the Documentation of Compliance. (40 CFR 63.1211(c)(4))

(d) Data Compression. The Permittee may submit a written request to the Administrator for approval to use data compression techniques to record data from CMS, including CEMS, on a frequency less than that required by 40 CFR Part 63.1209. The Permittee must submit the request for review and approval as part of the comprehensive performance test plan. (40 CFR 63.1211(d))

(i) The Permittee must record a data value at least once each ten minutes. (40 CFR 63.1211(d)(1))

(ii) For each CEMS or operating parameter for which the Permittee requests to use data compression techniques, the Permittee must recommend (40 CFR 63.1211(d)(2)):

(I) A fluctuation limit that defines the maximum permissible deviation of a new data value from a previously generated value without requiring the Permittee to revert to recording each one-minute value. (40 CFR 63.1211(d)(2)(i))

(A) If the Permittee exceeds a fluctuation limit, the Permittee must record each one-minute value for a period of time not less than ten minutes. (40 CFR 63.1211(d)(2)(i)(A))

(B) If neither the fluctuation limit nor the data compression limit are exceeded during that period of time, the Permittee may reinitiate recording data values on a frequency of at least once each ten minutes; and (40 CFR 63.1211(d)(2)(i)(B))

(II) A data compression limit defined as the closest level to an operating parameter limit or emission standard at which reduced data recording is allowed. (40 CFR 63.1211(d)(2)(ii))

(A) Within this level and the operating parameter limit or emission standard, the Permittee must record each one-minute average. (40 CFR 63.1211(d)(2)(ii)(A))

(B) The data compression limit should reflect a level at which the Permittee is unlikely to exceed the specific operating parameter limit or emission standard, considering its averaging period, with the addition of a new one-minute average. (40 CFR 63.1211(d)(2)(ii)(B))

(8) Other Requirements Pertaining to the NIC (40 CFR 63.1212)

The Permittee shall follow the other requirements pertaining to the NIC under 40 CFR Part 63.1212 as applicable. (40 CFR 63.1212)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(9) Replacement Standards for Hazardous Waste Incinerators (40 CFR 63.1219)

(a) *Emission Limits for New Sources.* The Permittee shall not discharge or cause combustion gases to be emitted into the atmosphere that contain (40 CFR 63.1219(b)):

(i) For Dioxins and Furans (40 CFR 63.1219(b)(1)):

(I) Dioxins and furans in excess of 0.20 ng TEQ/dscm corrected to 7 percent oxygen for sources not equipped with either a waste heat boiler or dry air pollution control system (40 CFR 63.1219(b)(1)(ii));

(II) A source equipped with a wet air pollution control system followed by a dry air pollution control system is not considered to be a dry air pollution control system, and a source equipped with a dry air pollution control system followed by a wet air pollution control system is considered to be a dry air pollution control system for purposes of this standard (40 CFR 63.1219(b)(1)(iii));

(ii) Mercury in excess of 8.1 µgm/dscm, corrected to 7 percent oxygen (40 CFR 63.1219(b)(2));

(iii) Cadmium and lead in excess of 10 µgm/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1219(b)(3));

(iv) Arsenic, beryllium, and chromium in excess of 23 µgm/dscm, combined emissions, corrected to 7 percent oxygen (40 CFR 63.1219(b)(4));

(v) Carbon monoxide in excess of 100 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. If the Permittee elects to comply with this carbon monoxide standard rather than the hydrocarbon standard under 40 CFR Part 63.1219(b)(5)(ii), the Permittee must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by 40 CFR Part 63.1206(b)(7), hydrocarbons do not exceed 10 parts per million by volume during those runs, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane; or (40 CFR 63.1219(b)(5)(i))

(vi) Hydrogen chloride and chlorine gas in excess of 21 parts per million by volume, combined emissions, expressed as a chloride (Cl⁻) equivalent, dry basis and corrected to 7 percent oxygen; and (40 CFR 63.1219(b)(6))

(vii) Except as provided by 40 CFR Part 63.1219(e), particulate matter emissions in excess of 0.0016 gr/dscf corrected to 7 percent oxygen. (40 CFR 63.1219(b)(7))

(b) *Destruction and Removal Efficiency (DRE) Standard* (40 CFR 63.1219(c))

(i) *99.99% DRE.* Except as provided in 40 CFR Part 63.1219(c)(2), the Permittee must achieve a destruction and removal efficiency (DRE) of 99.99% for each principle organic hazardous constituent (POHC) designated under 40 CFR Part 63.1219(c)(3). The Permittee must calculate DRE for each POHC from the following equation (40 CFR 63.1219(c)(1)):

$$DRE = [1 - (W_{out} / W_{in})] \times 100\%$$

Where

W_{in} = mass feedrate of one POHC in a waste feedstream; and

W_{out} = mass emission rate of the same POHC present in exhaust emissions prior to release to the atmosphere.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AV. Emission Units S2.077 through S2.078 (continued)

6. Federal Requirements (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart EEE – from Hazardous Waste Combustors (40 CFR Part 63.1200) (continued)

(9) Replacement Standards for Hazardous Waste Incinerators (40 CFR 63.1219) (continued)

(b) Destruction and Removal Efficiency (DRE) Standard (40 CFR 63.1219(c)) (continued)

(ii) *99.9999% DRE.* If the Permittee burns the dioxin-listed hazardous wastes F020, F021, F022, F023, F026, or F027 (see 40 CFR Part 261.31), the Permittee must achieve a DRE of 99.9999% for each POHC that you designate under 40 CFR Part 63.1219(c)(3). The Permittee must demonstrate this DRE performance on POHCs that are more difficult to incinerate than tetra-, penta-, and hexachlorodibenzo-p-dioxins and dibenzofurans. The Permittee must use the equation in 40 CFR Part 63.1219(c)(1) to calculate DRE for each POHC. In addition, the Permittee must notify the Administrator of your intent to incinerate hazardous wastes F020, F021, F022, F023, F026, or F027. (40 CFR 63.1219(c)(2))

(iii) Principal Organic Hazardous Constituent (POHC). (40 CFR 63.1219(c)(3))

(I) The Permittee must treat each POHC in the waste feed that the Permittee specifies under 40 CFR Part 63.1219(c)(3)(ii) to the extent required by 40 CFR Parts 63.1219(c)(1) and (c)(2). (40 CFR 63.1219(c)(3)(i))

(II) The Permittee must specify one or more POHCs that are representative of the most difficult to destroy organic compounds in your hazardous waste feedstream. The Permittee must base this specification on the degree of difficulty of incineration of the organic constituents in the hazardous waste and on their concentration or mass in the hazardous waste feed, considering the results of hazardous waste analyses or other data and information. (40 CFR 63.1219(c)(3)(ii))

(c) *Significant Figures.* The emission limits provided by 40 CFR Parts 63.1219(a) and (b) are presented with two significant figures. Although the Permittee must perform intermediate calculations using at least three significant figures, the Permittee may round the resultant emission levels to two significant figures to document compliance. (40 CFR 63.1219(d))

(d) Alternative to the Particulate Matter Standard (40 CFR 63.1219(e))

(i) *General.* In lieu of complying with the particulate matter standards of this section, the Permittee may elect to comply with the following alternative metal emission control requirement (40 CFR 63.1219(e)(1)):

(ii) *Alternative Metal Emission Control Requirements for Existing Incinerators.* (40 CFR 63.1219(e)(2))

(I) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain cadmium, lead, and selenium in excess of 230 µgm/dscm, combined emissions, corrected to 7 percent oxygen; and, (40 CFR 63.1219(e)(2)(i))

(II) The Permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain antimony, arsenic, beryllium, chromium, cobalt, manganese, and nickel in excess of 92 µgm/dscm, combined emissions, corrected to 7 percent oxygen. (40 CFR 63.1219(e)(2)(ii))

(iii) *Operating Limits.* Semivolatile and low volatile metal operating parameter limits must be established to ensure compliance with the alternative emission limitations described in 40 CFR Parts 63.1219(e)(2) and (e)(3) pursuant to 40 CFR Part 63.1209(n), except that semivolatile metal feedrate limits apply to lead, cadmium, and selenium, combined, and low volatile metal feedrate limits apply to arsenic, beryllium, chromium, antimony, cobalt, manganese, and nickel, combined. (40 CFR 63.1219(e)(4))

b. Continuous Emissions Monitoring System (CEMS) – 40 CFR Parts 60

The Permittee, upon issuance of this operating permit, shall comply with the CEMS requirements set forth in **Section V** of this operating permit.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AW. Emission Unit S2.079**

System 57 – 14.7 MMBtu/hr Hurst Diesel Fired Boiler - Building 103-6		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.079	14.7 MMBtu/hr Hurst Diesel Boiler, Model 300 Series, Building 103-6	4,269,916	359,106

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.079** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 40.0 feet
Stack Diameter: 1.33 feet
Stack Temperature: 250.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.079** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.079** shall not exceed **105.0 gallons** per hour, averaged over a calendar day.
 - c. The maximum allowable annual fuel consumption rate shall not exceed the value under **Section VII.D.1.b.** of this operating permit.
 - d. Hours
 - (1) **S2.079** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.079** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.42** pounds per hour, nor more than **1.84** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.21** pounds per hour, nor more than **0.92** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.21** pounds per hour, nor more than **0.92** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.045** pounds per hour, nor more than **0.20** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **2.31** pounds per hour, nor more than **10.1** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.58** pounds per hour, nor more than **6.90** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.11** pounds per hour, nor more than **0.46** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.079** shall not equal or exceed **20** percent.
 - i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.079** shall not exceed **0.55** pounds per MMBtu.
 - j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.079** shall not exceed **10.3** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.079** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.079** for each calendar day.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193)

(1) Compliance Dates (40 CFR Part 63.11196)

The Permittee must achieve compliance with the provisions of this subpart upon startup of **S2.079**. (40 CFR 63.11196(b))

(2) Emission Limits and Work Practice Standards (40 CFR 63.11201)

(a) The Permittee shall achieve less than or equal to the following emission limits, except during periods of startup and shutdown (40 CFR Part 63.11201(b), Table 1, Number 5):

- (i) Heat input of 2.2E-05 lb/MMBtu for Hg (Mercury).
- (ii) 420 parts per million (ppm) by volume on a dry basis corrected to 3 percent oxygen (2-run average or 10-day rolling average) of CO (Carbon Monoxide).

(b) The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following with extent of the evaluation for items under 40 CFR Part 63 Subpart JJJJJJ Table 2 Number 5, appropriate for the on-site technical hours listed in 40 CFR Part 63.11237 (40 CFR 63.11201(b), Table 2, Number 5):

- (i) Conduct a tune-up of the boiler biennially as specified in 40 CFR Part 63.11223.

(c) The standards mentioned in **AW.5.b.** of this section apply at all times **S2.079** is operating, except during periods of startup and shutdown as defined in 40 CFR Part 63.11237, during which time the Permittee must comply only with Table 2 of 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11201(d))

(3) General Compliance Requirements (40 CFR 63.11205)

(a) The Permittee at all times must operate and maintain **S2.079** in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11205(a))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (3) General Compliance Requirements (40 CFR 63.11205) (continued)
 - (b) The Permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. The Permittee may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to 40 CFR 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing. (40 CFR 63.11205(b))
 - (c) If the Permittee demonstrates compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, the Permittee must develop a site-specific monitoring plan according to the requirements in **AW.5.c.3.(a) through (c)** below for the use of any CEMS, COMS, or CPMS. This requirement also applies to **S2.079** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11205(c))
 - (i) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of 40 CFR Part 63 Subpart JJJJJJ and that meet the requirements of 40 CFR 63.11224. (40 CFR 63.11205(c)(1))
 - (I) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device) (40 CFR 63.11205(c)(1)(i));
 - (II) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (40 CFR 63.11205(c)(1)(ii))
 - (III) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11205(c)(1)(iii))
 - (IV) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Parts 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii) (40 CFR 63.11205(c)(1)(iv));
 - (V) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Part 63.8(d); and (40 CFR 63.11205(c)(1)(v))
 - (VI) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Parts 63.10(c) (as applicable in Table 8 to 40 CFR Part 63 Subpart JJJJJJ), (e)(1), and (e)(2)(i). (40 CFR 63.11205(c)(1)(vi))
 - (ii) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. (40 CFR 63.11205(c)(2))
 - (iii) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (40 CFR 63.11205(c)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (4) Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214)
 - (a) The Permittee must demonstrate initial compliance with each emission limit specified in Table 1 to 40 CFR Part 63 Subpart JJJJJJ that applies to **S2.079** by either conducting performance (stack) tests, as applicable, according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11210(a))
 - (b) For new or reconstructed affected boilers that have applicable emission limits, the Permittee must demonstrate initial compliance with the applicable emission limits no later than 180 days after March 21, 2011 or within 180 days after startup of the source, whichever is later, according to 40 CFR 63(a)(2)(ix). (40 CFR 63.11210(d))
 - (c) For new or reconstructed affected boilers that have applicable work practice standards or management practices, the Permittee are not required to complete an initial performance tune-up, but the Permittee is required to complete the applicable biennial or 5-year tune-up as specified in 40 CFR 63.11223 no later than 25 months or 61 months, respectively, after the initial startup of the new or reconstructed affected source. (40 CFR 60.11210(g))
 - (d) For affected boilers that demonstrate compliance with any of the emission limits of 40 CFR Part 63 Subpart JJJJJJ through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR 63.11212 and Table 4 to 40 CFR Part 63 Subpart JJJJJJ, conducting a fuel analysis for each type of fuel burned in the Permittee's boiler according to 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ, establishing operating limits according to 40 CFR 63.11222, Table 6 to 40 CFR Part 63 Subpart JJJJJJ, and conducting CMS performance evaluations according to 40 CFR 63.11224. For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in **S2.073**. For purposes of 40 CFR Part 63 Subpart JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR 63.11213 and Table 5 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11211(a))
 - (e) The Permittee must conduct all performance tests according to 40 CFR 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR 63.7(c). (40 CFR 63.11212(a))
 - (f) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(b))
 - (g) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. (40 CFR 63.11212(c))
 - (h) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in 40 CFR 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11212(d))
 - (i) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations that result from the performance test to pounds per million Btu heat input emission rates. (40 CFR 63.11212(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (4) Initial Compliance Requirements (40 CFR 63.11210, 40 CFR 63.11211, 40 CFR 63.11212, 40 CFR 63.11214) (continued)
 - (j) The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11214(d))
 - (5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224)
 - (a) The Permittee must conduct all applicable performance (stack) tests according to 40 CFR 63.11212 on a triennial basis, except as specified in **AW.5.e.(2)** of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test. (40 CFR 63.11220(a))
 - (b) When demonstrating initial compliance with the PM emission limit, if the Permittee's performance test results show that the PM emissions are equal to or less than half of the PM emission limit, the Permittee does not need to conduct further performance tests for PM until September 14, 2021, but must continue to comply with all applicable operating limits and monitoring requirements and must comply with the provisions as specified in **AW.5.e.(2)(a) through (c)** of this section. (40 CFR 63.11220(b))
 - (i) A performance test for PM must be conducted by September 14, 2021. (40 CFR 63.11220(b)(1))
 - (ii) If test results show that the PM emissions are equal to or less than half of the PM emission limit, the Permittee may choose to conduct performance tests for PM every fifth year. Each such performance test must be conducted no more than 61 months after the previous performance test. (40 CFR 63.11220(b)(2))
 - (iii) If the Permittee intends to burn a new type of fuel other than ultra-low-sulfur liquid fuel or gaseous fuels as defined in 40 CFR 63.11237, the Permittee must conduct a performance test within 60 days of burning the new fuel type. (40 CFR 63.11220(b)(3))
 - (iv) If the performance test results show that the PM emissions are greater than half of the PM emission limit, the Permittee must conduct subsequent performance tests on a triennial basis as specified in **AW.5.e.(1)** of this section. (40 CFR 63.11220(b)(4))
 - (c) The Permittee must monitor and collect data according to this section and the site-specific monitoring plan required by 40 CFR 63.11205(c). (40 CFR 63.11221(a))
 - (d) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR 63.8(c)(7) of 40 CFR Part 63 Subpart JJJJJJ), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. (40 CFR 63.11221(b))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (e) The Permittee may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. (40 CFR 63.11221(c))
 - (f) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the Permittee's site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements. (40 CFR 63.11221(d))
 - (g) The Permittee must demonstrate continuous compliance with each emission limit and operating limit in Tables 1 and 3 to 40 CFR Part 63 Subpart JJJJJJ that applies to **S2.079** according to the methods specified in Table 7 to 40 CFR Part 63 Subpart JJJJJJ and to **AW.5.e.(7)(a) through (b)** of this section. (40 CFR 63.11222(a))
 - (i) Following the date on which the initial compliance demonstration is completed or is required to be completed under 40 CFR 63.7 and 63.11196, whichever date comes first, the Permittee must continuously monitor the operating parameters. Operation above the established maximum, below the established minimum, or outside the allowable range of the operating limits specified in **AW.5.e.(7)** of this section constitutes a deviation from the operating limits established under 40 CFR Part 63 Subpart JJJJJJ, except during performance tests conducted to determine compliance with the emission and operating limits or to establish new operating limits. Operating limits are confirmed or reestablished during performance tests. (40 CFR 63.11222(a)(1))
 - (ii) The Permittee must keep records of the type and amount of all fuels burned in each boiler during the reporting period. (40 CFR 63.11222(a)(2))
 - (h) The Permittee must report each instance in which **S2.079** did not meet each emission limit and operating limit in Tables 1 and 3 to 40 CFR Part 63 Subpart JJJJJJ that apply to **S2.079**. These instances are deviations from the emission limits in 40 CFR Part 63 Subpart JJJJJJ. These deviations must be reported according to the requirements in 40 CFR 63.11225. (40 CFR 63.11222(b))
 - (i) The Permittee must conduct a performance tune-up according to **AW.5.e.(10)** below and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The Permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. (40 CFR 63.11223(a))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)

- (j) The Permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in **AW.5.e.(10)(a) through (g)** below. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (40 CFR 63.11223(b))
 - (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(1))
 - (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (40 CFR 63.11223(b)(2))
 - (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.11223(b)(3))
 - (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (40 CFR 63.11223(b)(4))
 - (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.11223(b)(5))
 - (vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs **AW.5.e.(10)(f)(i) through (iii)** of this section. (40 CFR 63.11223(b)(6))
 - (I) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (40 CFR 63.11223(b)(6)(i))
 - (II) A description of any corrective actions taken as a part of the tune-up of the boiler. (40 CFR 63.11223(b)(6)(ii))
 - (III) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (40 CFR 63.11223(b)(6)(iii))
 - (vii) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. (40 CFR 63.11223(b)(7))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)
 - (5) Continuous Compliance Requirements (40 CFR 63.11220, 40 CFR 63.11221, 40 CFR 63.11222, 40 CFR 63.11223, 40 CFR 63.11224) (continued)
 - (k) If the Permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the Permittee must develop a site-specific monitoring plan according to the requirements in **AW.5.e.(11)(a) through (d)** of this section. This requirement also applies to **S2.079** if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). (40 CFR 63.11224(c))
 - (i) For each CMS required in this section, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses **AW.5.e.(11)(a)(i) through (iii)** of this section. The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the Permittee's initial performance evaluation of the Permittee's CMS. (40 CFR 63.11224(c)(1))
 - (I) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). (40 CFR 63.11224(c)(1)(i))
 - (II) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. (40 CFR 63.11224(c)(1)(ii))
 - (III) Performance evaluation procedures and acceptance criteria (e.g., calibrations). (40 CFR 63.11224(c)(1)(iii))
 - (ii) In the Permittee's site-specific monitoring plan, the Permittee must also address **AW.5.e.(11)(b)(i) through (iii)** of this section. (40 CFR 63.11224(c)(2))
 - (I) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (3), and (4)(ii). (40 CFR 63.11224(c)(2)(i))
 - (II) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). (40 CFR 63.11224(c)(2)(ii))
 - (III) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i). (40 CFR 63.11224(c)(2)(iii))
 - (l) The Permittee shall minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the permittee shall follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee shall submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available. (40 CFR 63.11224(g))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

a. National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart JJJJJJ – for Industrial Commercial, and Institutional Boilers Area Sources (40 CFR Part 63.11193) (continued)

(6) Notification, Reporting, Recordkeeping Requirements (40 CFR 63.11225)

- (a) The Permittee must submit the notifications specified in **AW.5.f.(1)(a) through (e)** of this section. (40 CFR 63.11225(a))
 - (i) The Permittee must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to **S2.079** by the dates specified in those sections except as specified in **AW.5.f.(1)(b) and (d)** of this section. (40 CFR 63.11225(a)(1))
 - (ii) An Initial Notification must be submitted within 120 days after the source becomes subject to the standard. (40 CFR 63.11225(a)(2))
 - (iii) If the Permittee is required to conduct a performance stack test, the Permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (40 CFR 63.11225(a)(3))
 - (iv) The Permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless **S2.079** is subject only to a requirement to conduct a biennial or 5-year tune-up or the Permittee must conduct a performance stack test. New boilers subject to a requirement to conduct a tune-up, the Permittee are not required to prepare and submit a Notification of Compliance Status for the tune-up. If the Permittee must conduct a performance stack test, the Permittee must submit the Notification of Compliance Status within 60 days of completing the performance stack test. The Permittee must submit the Notification of Compliance Status in accordance with 40 CFR 63.11225(a)(4)(i) and (vi). The Notification of Compliance Status must include the information and certification(s) of compliance in 40 CFR 63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. (40 CFR 63.11225(a)(4))
 - (v) If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR Part 63 Subpart JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR Part 63 Subpart JJJJJJ. (40 CFR 63.11225(a)(5))
- (b) The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b)(1) through (4). The Permittee must submit the report by March 15 if **S2.079** had any instance described by 40 CFR 63.11225(b)(3). (40 CFR 63.11225(b))
- (c) The Permittee must maintain the records specified in 40 CFR 63.11225(c)(1) through (7). (40 CFR 63.11225(c))
- (d) The records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. (40 CFR 63.11225(d))
- (4) Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by 40 CFR Part 63 Subpart JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either 40 CFR 63.11225(e)(1)(i) or (ii). (40 CFR 63.11225(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c)

(1) Applicability and Delegation of Authority (40 CFR 60.40c)

The Permittee is not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this 40 CFR Part 50 Subpart Dc during periods of combustion research, as defined in 40 CFR Part 60.41c. (40 CFR 60.40c(c))

(2) Standards for Sulfur Dioxide (SO₂) (40 CFR 60.42c)

(a) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of **215 ng/J (0.50 lb/MMBtu)** heat input from oil; or, as an alternative, the Permittee shall not combust oil that contains greater than **0.5** weight percent sulfur. The percent reduction requirements are not applicable. (40 CFR 60.42c(d))

(b) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of what is specified under 40 CFR Part 60.42c(e)(1). (40 CFR 60.42c(e))

(b) On and after the date on which the initial performance test is completed or required to be completed under 40 CFR Part 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of the following (40 CFR 60.42c(e)):

(i) The emission limit determined according to the following formula for any affected facility that combusts coal, oil, or coal and oil with any other fuel (40 CFR 60.42c(e)(2)):

$$E_s = \frac{(K_a H_a + K_b H_b + K_c H_c)}{(H_a + H_b + H_c)}$$

Where:

E_s = SO₂ emission limit, expressed in hg/J or lb/MMBtu heat input;

K_a = 520 ng/J (1.2 lb/MMBtu);

K_b = 260 ng/J (0.60 lb/MMBtu);

K_c = 215 ng/J (0.50 lb/MMBtu);

H_a = Heat input from the combustion of coal, except coal combusted in an affected facility subject to paragraph (b)(2) of this section, in Joules (J) [MMBtu];

H_b = Heat input from the combustion of coal in an affected facility subject to 40 CFR Part 60.42c(b)(2), in J (MMBtu); and

H_c = Heat input from the combustion oil, in J (MMBtu).

(c) Reduction in the potential SO₂ emission rate through fuel pretreatment is not credited toward the percent reduction requirement under 40 CFR Part 60.42c(b)(2) unless (40 CFR 60.42c(f)):

(i) Fuel pretreatment results in a 50 percent (0.50) or greater reduction in the potential SO₂ emission rate; and (40 CFR 60.42c(f)(1))

(ii) Emissions from the pretreated fuel (without either combustion or post-combustion SO₂ control) are equal to or less than the emission limits specified under 40 CFR Part 60.42c(b)(2). (40 CFR 60.42c(f)(2))

(c) Except as provided in 40 CFR Part 60.42c(h), compliance with the percent reduction requirements, fuel oil sulfur limits, and emission limits under 40 CFR Part 60.42 shall be determined on a 30-day rolling average basis. (40 CFR 60.42c(g))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (2) Standards for Sulfur Dioxide (SO₂) (40 CFR 60.42c) (continued)
 - (d) Compliance with the emission limits or fuel oil sulfur limits under 40 CFR Part 60.42c may be determined based on a certification from the fuel supplier, as described under 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.42c(h))
 - (e) The SO₂ emission limits, fuel oil sulfur limits, and percent reduction requirements under 40 CFR 60.42c apply at all times, including periods of startup, shutdown, and malfunction. (40 CFR 60.42c(i))
 - (3) Compliance and Performance Test Methods and Procedures for Sulfur Dioxide (40 CFR 60.44c)
 - (a) Except as provided in 40 CFR Parts 60.44c(g) & (h) and 40 CFR Part 60.8(b), performance tests required under 40 CFR Part 60.8 shall be conducted following the procedures specified in 40 CFR Parts 60.44c(b), 60.44c(c), 60.44c(d), 60.44c(e), and 60.44c(f), as applicable. 40 CFR Part 60.8(f) does not apply to 40 CFR Part 60.44c. The 30-day notice required in 40 CFR Part 60.8(d) applies only to the initial performance test unless otherwise specified by the Administrator. (40 CFR 60.44c(a))
 - (b) The initial performance test required under 40 CFR Part 60.8 shall be conducted over 30 consecutive operating days of the steam generating unit. Compliance with the percent reduction requirements and SO₂ emission limits under 40 CFR 60.42c shall be determined using a 30-day average. The first operating day included in the initial performance test shall be scheduled within 30 days after achieving the maximum production rate, but not later than 180 days after the initial startup. The steam generating unit load during the 30-day period does not have to be the maximum design heat input capacity, but must be representative of future operating conditions. (40 CFR 60.44c(b))
 - (c) After the initial performance test required under 40 CFR Part 60.44c(b) and 40 CFR Part 60.8, compliance with the percent reduction requirements and SO₂ emission limits under 40 CFR Part 60.42c is based on the average percent reduction and the average SO₂ emission rates for 30 consecutive steam generating unit operating days. A separate performance test is completed at the end of each steam generating unit operating day, and a new 30-day average percent reduction and SO₂ emission rate are calculated to show compliance with the standard. (40 CFR 60.44c(c))
 - (d) The procedures in 40 CFR Part 60 Appendix A Method 19 are used to determine the hourly SO₂ emission rate (E_{ho}) and the 30-day average SO₂ emission rate (E_{ao}). The hourly averages used to compute the 30-day averages are obtained from the CEMS. Method 19 shall be used to calculate E_{ao} when using daily fuel sampling or 40 CFR Part 60 Appendix A Method 6B. (40 CFR 60.44c(d))
 - (e) If the Permittee seeks to demonstrate compliance with the fuel oil sulfur limits under 40 CFR Part 60.42c based on shipment fuel sampling, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the steam generating unit to demonstrate that the oil contains 0.5 weight percent sulfur or less. Thereafter, the Permittee shall sample the oil in the fuel tank after each new shipment of oil is received, as described under 40 CFR Part 60.46c(d)(2). (40 CFR 60.44c(g))
 - (f) If the Permittee seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described in 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.44c(h))
 - (g) The Permittee shall use all valid SO₂ emissions data in calculating %P_s and E_{ho} under 40 CFR Parts 60.44c(d) or 60.44c(e), as applicable, whether or not the minimum emissions data requirements under 40 CFR Part 60.46c(f) are achieved. All valid emissions data, including valid data collected during periods of startup, shutdown, and malfunction, shall be used in calculating %P_s or E_{ho} pursuant to 40 CFR Parts 60.44c(d) or 60.44c(e), as applicable. (40 CFR 60.44c(j))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

- b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c)
 - (a) Except as provided in 40 CFR Parts 60.46c(d) and (e), the Permittee shall install, calibrate, maintain, and operate a CEMS for measuring SO₂ concentrations and either O₂ or CO₂ concentrations at the outlet of the SO₂ control device (or the outlet of the steam generating unit if no SO₂ control device is used), and shall record the output of the system. The Permittee who is subject to the percent reduction requirements under 40 CFR Part 60.42c shall measure SO₂ concentrations and either O₂ or CO₂ concentrations at both the inlet and outlet of the SO₂ control device. (40 CFR 60.46c(a))
 - (b) The 1-hour average SO₂ emission rates measured by a CEMS shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR Part 60.42c. Each 1-hour average SO₂ emission rate must be based on at least 30 minutes of operation, and shall be calculated using the data points required under 40 CFR Part 60.13(h)(2). Hourly SO₂ emission rates are not calculated if the affected facility is operated less than 30 minutes in a 1-hour period and are not counted toward determination of a steam generating unit operating day. (40 CFR 60.46c(b))
 - (c) The procedures under 40 CFR Part 60.13 shall be followed for installation, evaluation, and operation of the CEMS. (40 CFR 60.46c(c))
 - (i) All CEMS shall be operated in accordance with the applicable procedures under 40 CFR Part 60 Appendix B Performance Specifications 1, 2, and 3. (40 CFR 60.46c(c)(1))
 - (ii) Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with 40 CFR Part 60 Appendix F Procedure 1. (40 CFR 60.46c(c)(2))
 - (iii) For affected facilities subject to the percent reduction requirements under 40 CFR Part 60.42c, the span value of the SO₂ CEMS at the inlet to the SO₂ control device shall be 125 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted, and the span value of the SO₂ CEMS at the outlet from the SO₂ control device shall be 50 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted. (40 CFR 60.46c(c)(3))
 - (iv) For affected facilities that are not subject to the percent reduction requirements of 40 CFR Part 60.42c, the span value of the SO₂ CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) shall be 125 percent of the maximum estimated hourly potential SO₂ emission rate of the fuel combusted. (40 CFR 60.46c(c)(4))
 - (d) As an alternative to operating a CEMS at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by using 40 CFR Part 60 Appendix A Method 6B. Fuel sampling shall be conducted pursuant to either 40 CFR Parts 60.46c(d)(1) or (d)(2). 40 CFR Part 60 Appendix A Method 6B shall be conducted pursuant to 40 CFR Part 60.46c(d)(3). (40 CFR 60.46c(d))
 - (i) For affected facilities combusting coal or oil, coal or oil samples shall be collected daily in an as-fired condition at the inlet to the steam generating unit and analyzed for sulfur content and heat content according the 40 CFR Part 60 Appendix A Method 19. 40 CFR Part 60 Appendix A Method 19 provides procedures for converting these measurements into the format to be used in calculating the average SO₂ input rate. (40 CFR 60.46c(d)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)

- b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c) (continued)
 - (d) As an alternative to operating a CEMS at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under 40 CFR Part 60.46c(a), the Permittee may elect to determine the average SO₂ emission rate by using 40 CFR Part 60 Appendix A Method 6B. Fuel sampling shall be conducted pursuant to either 40 CFR Parts 60.46c(d)(1) or (d)(2). 40 CFR Part 60 Appendix A Method 6B shall be conducted pursuant to 40 CFR Part 60.46c(d)(3). (40 CFR 60.46c(d)) (continued)
 - (ii) As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The Permittee shall analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the Permittee shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less. (40 CFR 60.46c(d)(2))
 - (iii) 40 CFR Part 60 Appendix A Method 6B may be used in lieu of CEMS to measure SO₂ at the inlet or outlet of the SO₂ control system. An initial stratification test is required to verify the adequacy of the 40 CFR Part 60 Appendix A Method 6B sampling location. The stratification test shall consist of three paired runs of a suitable SO₂ and CO₂ measurement train operated at the candidate location and a second similar train operated according to the procedures in 40 CFR Part 3.2 and the applicable procedures in 40 CFR Part 60 Appendix B Performance Specification 2 Section 7. 40 CFR Part 60 Appendix B Method 6B, 40 CFR Part 60 Appendix A Method 6A, or a combination of 40 CFR Part 60 Appendix A Methods 6 and 3 or 40 CFR Part 60 Appendix A Methods 6C and 3A are suitable measurement techniques. If 40 CFR Part 60 Appendix A Method 6B is used for the second train, sampling time and timer operation may be adjusted for the stratification test as long as an adequate sample volume is collected; however, both sampling trains are to be operated similarly. For the location to be adequate for 40 CFR Part 60 Appendix A Method 6B 24-hour tests, the mean of the absolute difference between the three paired runs must be less than 10 percent (0.10). (40 CFR 60.46c(d)(3))
 - (e) The monitoring requirements of 40 CFR Parts 60.46c(a) and 60.46c(d) shall not apply to affected facilities subject to 40 CFR Parts 60.42c(h) (1), (2), or (3) where the Permittee seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, as described under 40 CFR Part 60.48c(f), as applicable. (40 CFR 60.46c(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (4) Emissions Monitoring for Sulfur Dioxide (40 CFR 60.46c) (continued)
 - (f) The Permittee operating a CEMS pursuant to 40 CFR Part 60.46c(a), or conducting as-fired fuel sampling pursuant to 40 CFR Part 60.46c(d)(1), shall obtain emission data for at least 75 percent of the operating hours in at least 22 out of 30 successive steam generating unit operating days. If this minimum data requirement is not met with a single monitoring system, the Permittee shall supplement the emission data with data collected with other monitoring systems as approved by the Administrator. (40 CFR 60.46c(f))
 - (5) Reporting and Recordkeeping Requirements (40 CFR 60.48c)
 - (a) The Permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR Part 60.7. This notification shall include (40 CFR 60.48c(a)):
 - (i) The design heat input capacity and identification of fuels to be combusted. (40 CFR 60.48c(a)(1))
 - (ii) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR Parts 60.42c, or 60.43c. (40 CFR 60.48c(a)(2))
 - (iii) The annual capacity factor at which the Permittee operates based on all fuels fired and based on each individual fuel fired. (40 CFR 60.48c(a)(3))
 - (iv) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the Permittee to submit additional information concerning the control device. The Permittee is subject to the provisions of 40 CFR Parts 60.42c(a) or 60.42c(b)(1), unless and until this determination is made by the Administrator. (40 CFR 60.48c(a)(4))
 - (b) The Permittee shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in 40 CFR Part 60 Appendix B. (40 CFR 60.48c(b))
 - (c) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall submit reports to the Administrator. (40 CFR 60.48c(d))
 - (d) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall keep records and submit reports as required under 40 CFR Part 60.48c(d), including the following information, as applicable. (40 CFR 60.48c(e))
 - (i) Calendar dates covered in the reporting period. (40 CFR 60.48c(e)(1))
 - (ii) Each 30-day average SO₂ emission rate (ng/J or lb/MMBtu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken. (40 CFR 60.48c(e)(2))
 - (iii) Each 30-day average percent of potential SO₂ emission rate calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of the corrective actions taken. (40 CFR 60.48c(e)(3))
 - (iv) Identification of any steam generating unit operating days for which SO₂ or diluent (O₂ or CO₂) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken. (40 CFR 60.48c(e)(4))
 - (v) Identification of any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which coal or oil were not combusted in the steam generating unit. (40 CFR 60.48c(e)(5))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (5) Reporting and Recordkeeping Requirements (40 CFR 60.48c) (continued)
 - (d) Because the Permittee is subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Part 60.42c, the Permittee shall keep records and submit reports as required under 40 CFR Part 60.48c(d), including the following information, as applicable. (40 CFR 60.48c(e)) (continued)
 - (vi) Identification of the F factor used in calculations, method of determination, and type of fuel combusted. (40 CFR 60.48c(e)(6))
 - (vii) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under 40 CFR Parts 60.48c(f)(1), 60.48c(f)(2), 60.48c(f)(3), or 60.48c(f)(4), as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the Permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period. (40 CFR 60.48c(e)(11))
 - (e) Fuel supplier certification shall include the following information: (40 CFR 60.48c(f))
 - (i) For distillate oil: (40 CFR 60.48c(f)(1))
 - (I) The name of the oil supplier; (40 CFR 60.48c(f)(1)(i))
 - (II) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR Part 60.41c; and (40 CFR 60.48c(f)(1)(ii))
 - (III) The sulfur content or maximum sulfur content of the oil. (40 CFR 60.48c(f)(1)(iii))
 - (ii) For residual oil: (40 CFR 60.48c(f)(2))
 - (I) The name of the oil supplier; (40 CFR 60.48c(f)(2)(i))
 - (II) The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location; (40 CFR 60.48c(f)(2)(ii))
 - (III) The sulfur content of the oil from which the shipment came (or of the shipment itself); and (40 CFR 60.48c(f)(2)(iii))
 - (IV) The method used to determine the sulfur content of the oil. (40 CFR 60.48c(f)(2)(iv))
 - (f) Except as provided under 40 CFR Parts 60.48c(g)(2) and 60.48c(g)(3), the Permittee shall record and maintain records of the amount of each fuel combusted during each operating day. (40 CFR 60.48c(g)(1))
 - (i) As an alternative to meeting the requirements of 40 CFR Part 60.48c(g)(1), the Permittee that combusts only natural gas, wood, fuels using fuel certification in 40 CFR Part 60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. (40 CFR 60.48c(g)(2))
 - (ii) As an alternative to meeting the requirements of 40 CFR Part 60.48c(g)(1), the Permittee located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to 40 CFR Part 60 Subpart Dc) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR Part 60.42c to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. (40 CFR 60.48c(g)(3))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit S2.079 (continued)

5. Federal Requirements (NAC 445B.3405, 40 CFR Parts 60 and 63) (continued)
 - b. Standards of Performance for New Stationary Sources – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60.40c) (continued)
 - (5) Reporting and Recordkeeping Requirements (40 CFR 60.48c) (continued)
 - (g) The Permittee shall calculate the annual capacity factor individually for each fuel combusted. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of the calendar month. (40 CFR 60.48c(h))
 - (h) All records required under 40 CFR Part 60.48c shall be maintained by the Permittee for a period of two years following the date of such record. (40 CFR 60.48c(i))
 - (i) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. (40 CFR 60.48c(j))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AX. Emission Unit S2.080**

System 58 – 232 hp Cummins Emergency Diesel Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.080	Emergency Diesel Generator (Manufactured by Cummins, Year 2016, Model 150DSGAC, Serial A-61070390, 232 HP)	4,268,250	353,199

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.080** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 10.0 feet
Stack Diameter: 0.33 feet
Stack Temperature: 867.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.080** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.080** shall not exceed **11.7 gallons** per hour, averaged over a calendar day, nor more than **1,173.0 gallons** per 12-month rolling period of non-emergency use.
 - c. Hours
 - (1) **S2.080** may operate a total of **24** hours per day.
 - (2) **S2.080** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.080** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.077** pounds per hour, nor more than **0.0038** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.077** pounds per hour, nor more than **0.0038** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.077** pounds per hour, nor more than **0.0038** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.34** pounds per hour, nor more than **0.017** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **1.53** pounds per hour, nor more than **0.077** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.33** pounds per hour, nor more than **0.066** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.57** pounds per hour, nor more than **0.029** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.080** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.080** shall not exceed **1.15** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AX. Emission Unit S2.080 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.080** (in gallons) by multiplying the hourly fuel consumption rate as stated in **AX.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.080** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2007 model year and later Tier 3 non-road engine with a rated power greater than or equal to 37 kW (50 hp): (40 CFR 60.4202(a), 40 CFR 89.112 Table 1)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.20** grams/kW-hr (**0.077** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **3.50** grams/kW-hr (**1.33** pounds per hour).
 - (c) The discharge of NO_x to the atmosphere shall not exceed **4.00** gram/kW-hr (**1.54** pounds per hour).
- (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 89.113(a))
 - (a) 20 percent during acceleration mode;
 - (b) 15 percent during the lugging mode; and
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AX. Emission Unit S2.080 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **AX.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AX.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AX.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **AX.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **AX.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AX. Emission Unit S2.080 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AX.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AX.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f)) (continued)

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **AX.5.d.(4)(b)** of this section. Except as provided in paragraph **AX.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE greater than or equal to 100 HP and less than or equal to 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. (40 CFR 60.4211(g)(2))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AY. Emission Units S2.081 and S2.082**

System 59 – 77 HP Cummins Emergency Propane Generators		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.081	Emergency Propane Generator (Manufactured by Cummins, Year 2016, Model Onan RX50, Serial D160940349, 77 hp)	4,267,776	356,037
S2.082	Emergency Propane Generator (Manufactured by Cummins, Year 2016, Model Onan RX50, Serial D160940348, 77 hp)	4,270,639	359,847

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.081 and S2.082**, each, have no add-on controls.
 - b. Descriptive Stack Parameters for S2.081 and S2.082, each
Stack Height: 5.00 feet
Stack Diameter: 0.25 feet
Stack Temperature: 500.0 °F
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.081 and S2.082**, each, may consume only **propane**.
 - b. The maximum allowable fuel consumption rate for **S2.081 and S2.082**, each, shall not exceed **8.00 gallons** per hour, averaged over a calendar day, nor more than **800.0 gallons** per 12-month rolling period of non-emergency use.
 - c. Hours
 - (1) **S2.081 and S2.082**, each, may operate a total of **24** hours per day.
 - (2) **S2.081 and S2.082**, each, may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.081 and S2.082**, each, the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.040** pounds per hour, nor more than **0.0020** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.040** pounds per hour, nor more than **0.0020** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.040** pounds per hour, nor more than **0.0020** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.0028** pounds per hour, nor more than **0.00014** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **1.11** pounds per hour, nor more than **0.056** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.03** pounds per hour, nor more than **0.052** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.66** pounds per hour, nor more than **0.033** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.081 and S2.082**, each, shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.081 and S2.082**, each, shall not exceed **0.51** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AY. Emission Units S2.081 and S2.082 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **propane** for each calendar day for **S2.081 and S2.082** (in gallons), each, by multiplying the hourly fuel consumption rate as stated in **AY.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **propane**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.081 and S2.082**, each, for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4231(c))

The Permittee must comply with the emission standards for new non-road SI (spark ignition) ICE (internal combustion engine) in 40 CFR 60.4231(c), for all pollutants, for the same model year and maximum engine power for their 2009 model year and later emergency stationary: SI ICE (40 CFR 60.4233(b))

- (1) For a 2009 model year and later emergency engine with a maximum engine power greater than 25 hp and less than 130 hp (40 CFR 60.4231(b), Table 1):

- (a) The discharge of NO_x to the atmosphere shall not exceed 10 grams/hp-hr (**1.70** pounds/hr).
- (b) The discharge of CO to the atmosphere shall not exceed 387 grams/hp-hr (**65.7** pounds/hr).

b. Fuel requirements

The sulfur content is to be 30 parts per million (ppm) maximum from Refinery or Importer Average or 80 ppm from Per-Gallon Cap. (40 CFR 80.195)

c. Monitoring Requirements

If the SI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter upon startup of the emergency engine. (40 CFR 60.4237)

d. Air-to-Fuel Ratio Controller (40 CFR 60.4243(g))

It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. (40 CFR 60.4243(g))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AY. Emission Units S2.081 and S2.082 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (continued)

e. Compliance Requirements

- (1) The Permittee must operate and maintain stationary SI over the entire life of the engine (40 CFR 60.4234).
- (2) The Permittee must operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the Permittee must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if the Permittee are an owner or operator. The Permittee must also meet the requirements as specified in 40 CFR Part 1068, Subparts A through D, as they apply to the Permittee. If the Permittee adjust engine settings according to and consistent with the manufacturer's instructions, the stationary SI internal combustion engine will not be considered out of compliance. (40 CFR 60.4243(a)(1))
- (3) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AY.5.e.(3)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AY.5.e.(3)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4243(d))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4243(d)(1))
 - (b) The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs **AY.5.e.(3)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **AY.5.e.(3)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4243(d)(2)).
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4243(d)(1)(i))
 - (c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in nonemergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **AY.5.e.(3)** of this section. Except as provided in paragraph **AY.5.e.(3)(c)(i)** of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4243(d)(3))
 - i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions of 40 CFR 60.4243(d)(3)(i)(A) through (E) are met. (40 CFR 60.4243(d)(3)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AY. Emission Units S2.081 and S2.082 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (continued)

f. Notifications, Reports, and Records Requirement (40 CFR 60.4245(a))

(1) The Permittee shall keep records of the following: (40 CR 60.4245(a))

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification. (40 CR 60.4245(a)(1))
- (b) Maintenance conducted on the engine. (40 CR 60.4245(a)(2))
- (c) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable. (40 CR 60.4245(a)(3))
- (d) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards. (40 CR 60.4245(a)(3))

(2) For all stationary SI emergency ICE greater than 25 hp and less than 130 hp manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. (40 CFR 60.4245(b))

g. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart JJJJ, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****AZ. Emission Unit S2.083**

System 60 – 131 hp Generac Emergency Diesel Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.083	Emergency Diesel Generator (Manufactured by Generac, Model SD080, Serial 3001334531, 131 hp)	4,267,825	356,089

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.083** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 6.00 feet
Stack Diameter: 0.25 feet
Stack Temperature: 887.0 °F
Exhaust Flow: 790.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.083** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.083** shall not exceed **6.84 gallons** per hour, averaged over a calendar day, nor more than **684.0 gallons** per 12-month rolling period of non-emergency use.
 - c. Hours
 - (1) **S2.083** may operate a total of **24** hours per day.
 - (2) **S2.083** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.083** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.063** pounds per hour, nor more than **0.0032** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.063** pounds per hour, nor more than **0.0032** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.063** pounds per hour, nor more than **0.0032** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.20** pounds per hour, nor more than **0.010** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.87** pounds per hour, nor more than **0.043** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.07** pounds per hour, nor more than **0.053** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.32** pounds per hour, nor more than **0.016** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.083** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.083** shall not exceed **0.67** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AZ. Emission Unit S2.083 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.083** (in gallons) by multiplying the hourly fuel consumption rate as stated in **AZ.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.083** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2007 model year and later Tier 3 non-road engine with a rated power greater than or equal to 37 kW (50 hp): (40 CFR 60.4202(a), 40 CFR 89.112 Table 1)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.30** grams/kW-hr (**0.065** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **5.00** grams/kW-hr (**1.08** pounds per hour).
 - (c) The discharge of NO_x to the atmosphere shall not exceed **4.00** gram/kW-hr (**0.87** pounds per hour).
- (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 89.113(a))
 - (a) 20 percent during acceleration mode;
 - (b) 15 percent during the lugging mode; and
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AZ. Emission Unit S2.083 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **AZ.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AZ.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AZ.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **AZ.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **AZ.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

AZ. Emission Unit S2.083 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AZ.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AZ.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f)) (continued)

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **AZ.5.d.(4)(b)** of this section. Except as provided in paragraph **AZ.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE greater than or equal to 100 HP and less than or equal to 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. (40 CFR 60.4211(g)(2))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****BA. Emission Unit S2.084**

System 61 – Plasma Cutting - Building 63		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.084	Plasma Cutting - Building 63	4,267,691	356,016

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. Emissions from **S2.084** shall be controlled by a **HEPA Filter**.
 - b. Descriptive Stack Parameters
Stack Height: 16.0 feet
Stack Diameter (Square Stack): 3.00 feet
Stack Temperature: Ambient
2. Operating Parameters (NAC 445B.3405)
 - a. The maximum allowable throughput rate for **S2.084** shall not exceed **4,800.0** inches of **steel** per hour averaged over a calendar day, nor more than **4,992,000.0** inches per 12-month rolling period.
 - b. Hours
 - (1) **S2.084** may operate a total of **8** hours per day.
 - (2) **S2.084** may operate a total of **1,040** hours per year.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.084** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.053** pounds per hour, nor more than **0.028** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.053** pounds per hour, nor more than **0.028** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.053** pounds per hour, nor more than **0.028** tons per 12-month rolling period.
 - d. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **1.49** pounds per hour, nor more than **0.78** tons per 12-month rolling period.
 - e. NAC 445B.22017 – The opacity from the **S2.084** shall not equal or exceed **20** percent.
 - f. NAC 445B.22033 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.084** shall not exceed **110.8** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BA. Emission Unit S2.084 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the throughput for **S2.084** for each calendar day.
- b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.084** for each calendar day.
- e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- f. Conduct and record an observation of visible emissions (excluding water vapor) on the **HEPA Filter** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
- g. Inspect the **HEPA Filter** installed on **S2.084** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****BB. Emission Unit S2.085**

System 62 – 25 kW Katolight Emergency Propane Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.085	Katolight Emergency Generator (Manufactured by Katolight, Model SENL25FPN4, Serial 6576660205, Year Pre-2006, 25 kW)	4,267,859	355,824

1. Air Pollution Control Equipment (NAC 445B.3405)

- S2.085** has no add-on controls.
- Descriptive Stack Parameters
Stack Height: 38.5 feet
Stack Diameter: 30 x 24 inches
Stack Temperature: 1,100.0 °F
Exhaust Flow: 200.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)

- S2.085** may consume only **propane**.
- The maximum allowable fuel consumption rate for **S2.085** shall not exceed **0.51 gallons** per hour, averaged over a calendar day, nor more than **51.0 gallons** per 12-month rolling period of non-emergency use.
- Hours
 - S2.085** may operate a total of **24** hours per day.
 - S2.085** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.085** the following pollutants in excess of the following specified limits:

- The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.0026** pounds per hour, nor more than **0.00013** tons per 12-month rolling period.
- The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0026** pounds per hour, nor more than **0.00013** tons per 12-month rolling period.
- The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0026** pounds per hour, nor more than **0.00013** tons per 12-month rolling period.
- The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.00018** pounds per hour, nor more than **0.0000089** tons per 12-month rolling period.
- The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.071** pounds per hour, nor more than **0.0035** tons per 12-month rolling period.
- The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.066** pounds per hour, nor more than **0.0033** tons per 12-month rolling period.
- The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.042** pounds per hour, nor more than **0.0021** tons per 12-month rolling period.
- NAC 445B.22017 – The opacity from the **S2.085** shall not equal or exceed **20** percent.
- NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.085** shall not exceed **0.033** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BB. Emission Unit S2.085 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **propane** for each calendar day for **S2.085** (in gallons) by multiplying the hourly fuel consumption rate as stated in **BB.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **propane**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.085** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4231(c))

The Permittee must comply with the emission standards for new non-road SI (spark ignition) ICE (internal combustion engine) in 40 CFR 60.4231(c), for all pollutants, for the same model year and maximum engine power for their 2009 model year and later emergency stationary: SI ICE (40 CFR 60.4233(b))

- (1) For a 2009 model year and later emergency engine with a maximum engine power greater than 25 hp and less than 130 hp (40 CFR 60.4231(b), Table 1):

- (a) The discharge of NO_x to the atmosphere shall not exceed 10 grams/hp-hr (**1.70** pounds/hr).
- (b) The discharge of CO to the atmosphere shall not exceed 387 grams/hp-hr (**65.7** pounds/hr).

b. Fuel requirements

The sulfur content is to be 30 parts per million (ppm) maximum from Refinery or Importer Average or 80 ppm from Per-Gallon Cap. (40 CFR 80.195)

c. Monitoring Requirements

If the SI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter upon startup of the emergency engine. (40 CFR 60.4237)

d. Air-to-Fuel Ratio Controller (40 CFR 60.4243(g))

It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. (40 CFR 60.4243(g))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BB. Emission Unit S2.085 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (continued)

e. Compliance Requirements

- (1) The Permittee must operate and maintain stationary SI over the entire life of the engine (40 CFR 60.4234).
- (2) The Permittee must operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the Permittee must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if the Permittee are an owner or operator. The Permittee must also meet the requirements as specified in 40 CFR Part 1068, Subparts A through D, as they apply to the Permittee. If the Permittee adjust engine settings according to and consistent with the manufacturer's instructions, the stationary SI internal combustion engine will not be considered out of compliance. (40 CFR 60.4243(a)(1))
- (3) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BB.5.e.(3)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BB.5.e.(3)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4243(d))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4243(d)(1))
 - (b) The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs **BB.5.e.(3)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **BB.5.e.(3)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4243(d)(2)).
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4243(d)(1)(i))
 - (c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in nonemergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **BB.5.e.(3)** of this section. Except as provided in paragraph **BB.5.e.(3)(c)(i)** of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4243(d)(3))
 - i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions of 40 CFR 60.4243(d)(3)(i)(A) through (E) are met. (40 CFR 60.4243(d)(3)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BB. Emission Unit S2.085 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (continued)

f. Notifications, Reports, and Records Requirement (40 CFR 60.4245(a))

- (1) Owners and operators of all stationary SI ICE must keep records of the following: (40 CR 60.4245(a))
 - (a) All notifications submitted to comply with this subpart and all documentation supporting any notification. (40 CR 60.4245(a)(1))
 - (b) Maintenance conducted on the engine. (40 CR 60.4245(a)(2))
 - (c) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable. (40 CR 60.4245(a)(3))
 - (d) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards. (40 CR 60.4245(a)(3))
- (2) For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. (40 CFR 60.4245(b))

g. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart JJJJ, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****BC. Emission Unit S2.086**

System 63 – 230 kW Caterpillar Emergency Diesel Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.086	Caterpillar Emergency Generator (Manufactured by Caterpillar, Model C9-250AG, Serial X3R00817, Year 2007, 230 kW)	4,267,699	355,906

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.086** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 12.0 feet
Stack Diameter: 0.25 feet
Stack Temperature: 852.0 °F
Exhaust Flow: 2,246.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.086** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.086** shall not exceed **19.4 gallons** per hour, averaged over a calendar day, nor more than **1,940.0 gallons** per 12-month rolling period of non-emergency use.
 - c. Hours
 - (1) **S2.086** may operate a total of **24** hours per day.
 - (2) **S2.086** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.086** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.10** pounds per hour, nor more than **0.0051** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.10** pounds per hour, nor more than **0.0051** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.10** pounds per hour, nor more than **0.0051** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.56** pounds per hour, nor more than **0.028** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **2.04** pounds per hour, nor more than **0.10** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.77** pounds per hour, nor more than **0.088** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.76** pounds per hour, nor more than **0.038** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.086** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.086** shall not exceed **1.90** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BC. Emission Unit S2.086 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.086** (in gallons) by multiplying the hourly fuel consumption rate as stated in **BC.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.086** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2007 model year and later Tier 3 non-road engine with a rated power greater than or equal to 37 kW (50 hp): (40 CFR 60.4202(a), 40 CFR 89.112 Table 1)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.20** grams/kW-hr (**0.10** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **3.50** grams/kW-hr (**1.77** pounds per hour).
 - (c) The discharge of NO_x to the atmosphere shall not exceed **4.00** gram/kW-hr (**2.04** pounds per hour).
- (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 89.113(a))
 - (a) 20 percent during acceleration mode;
 - (b) 15 percent during the lugging mode; and
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BC. Emission Unit S2.086 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **BC.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BC.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BC.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **BC.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **BC.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BC. Emission Unit S2.086 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BC.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BC.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f)) (continued)

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **BC.5.d.(4)(b)** of this section. Except as provided in paragraph **BC.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE greater than or equal to 100 hp and less than or equal to 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. (40 CFR 60.4211(g)(2))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****BD. Emission Unit S2.087**

System 64 – Building 101-25 Emergency Diesel Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.087	Building 101-25 Cummins 168 hp Diesel Emergency Generator (Manufactured by Cummins; Model QSB7; Year 2022)	4,269,961	361,405

1. Air Pollution Control Equipment (NAC 445B.3405)a. **S2.087** has no add-on controls.b. Descriptive Stack Parameters

Stack Height: 8.10 feet

Stack Diameter: 0.34 feet

Stack Temperature: 837.9 °F

Exhaust Flow: 240.2 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)a. **S2.087** may consume only **diesel**.b. The maximum allowable fuel consumption rate for **S2.087** shall not exceed **9.10 gallons** per hour, averaged over a calendar day, nor more than **910.0 gallons** per 12-month rolling period of non-emergency use.c. Hours(1) **S2.087** may operate a total of **0.27** hours per day.(2) **S2.087** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.3. Emission Limits (NAC 445B.305, NAC 445B.3405)The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.087** the following pollutants in excess of the following specified limits:a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.083** pounds per hour, nor more than **0.0041** tons per 12-month rolling period.b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.083** pounds per hour, nor more than **0.0041** tons per 12-month rolling period.c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.083** pounds per hour, nor more than **0.0041** tons per 12-month rolling period.d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.34** pounds per hour, nor more than **0.017** tons per 12-month rolling period.e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **1.10** pounds per hour, nor more than **0.055** tons per 12-month rolling period.f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.38** pounds per hour, nor more than **0.069** tons per 12-month rolling period.g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.41** pounds per hour, nor more than **0.021** tons per 12-month rolling period.h. NAC 445B.22017 – The opacity from the **S2.087** shall not equal or exceed **20** percent.i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.086** shall not exceed **0.89** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BD. Emission Unit S2.087 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.087** (in gallons) by multiplying the hourly fuel consumption rate as stated in **BD.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.087** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2007 model year and later Tier 3 non-road engine with a rated power greater than or equal to 37 kW (50 hp): (40 CFR 60.4202(a), 40 CFR 89.112 Table 1)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.30** grams/kW-hr (**0.083** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **5.00** grams/kW-hr (**1.38** pounds per hour).
 - (c) The discharge of NMHC (non-methane hydrocarbon) + NO_x to the atmosphere shall not exceed **4.00** gram/kW-hr (**1.10** pounds per hour).
- (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 89.113(a))
 - (a) 20 percent during acceleration mode;
 - (b) 15 percent during the lugging mode; and
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BD. Emission Unit S2.087 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **BD.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BD.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BD.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **BD.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **BD.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BD. Emission Unit S2.087 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BD.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BD.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f)) (continued)

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **BD.5.d.(4)(b)** of this section. Except as provided in paragraph **BD.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE greater than or equal to 100 hp and less than or equal to 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. (40 CFR 60.4211(g)(2))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****BE. Emission Unit S2.088**

System 65 – Well #4 Emergency Diesel Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.088	Well #4 - Cummins 168 hp Diesel Emergency Generator (Manufactured by Cummins; Model QSB7; Year 2022)	4,261,504	359,688

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.088** has no add-on controls.
 - b. Descriptive Stack Parameters
Stack Height: 8.10 feet
Stack Diameter: 0.34 feet
Stack Temperature: 837.9 °F
Exhaust Flow: 240.2 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.3405)
 - a. **S2.088** may consume only **diesel**.
 - b. The maximum allowable fuel consumption rate for **S2.088** shall not exceed **9.10 gallons** per hour, averaged over a calendar day, nor more than **910.0 gallons** per 12-month rolling period of non-emergency use.
 - c. Hours
 - (1) **S2.088** may operate a total of **0.27** hours per day.
 - (2) **S2.088** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.
3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.088** the following pollutants in excess of the following specified limits:

 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.083** pounds per hour, nor more than **0.0041** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.083** pounds per hour, nor more than **0.0041** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.083** pounds per hour, nor more than **0.0041** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.34** pounds per hour, nor more than **0.017** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **1.10** pounds per hour, nor more than **0.055** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.38** pounds per hour, nor more than **0.069** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.41** pounds per hour, nor more than **0.021** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.088** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.088** shall not exceed **0.89** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BE. Emission Unit S2.088 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.088** (in gallons) by multiplying the hourly fuel consumption rate as stated in **BE.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.088** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2007 model year and later Tier 3 non-road engine with a rated power greater than or equal to 37 kW (50 hp): (40 CFR 60.4202(a), 40 CFR 89.112 Table 1)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.30** grams/kW-hr (**0.083** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **5.00** grams/kW-hr (**1.38** pounds per hour).
 - (c) The discharge of NMHC (non-methane hydrocarbon) + NO_x to the atmosphere shall not exceed **4.00** gram/kW-hr (**1.10** pounds per hour).
- (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 89.113(a))
 - (a) 20 percent during acceleration mode;
 - (b) 15 percent during the lugging mode; and
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BE. Emission Unit S2.088 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 80.510(b))

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **BE.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BE.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BE.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **BE.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **BE.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BE. Emission Unit S2.088 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BE.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BE.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f)) (continued)

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **BE.5.d.(4)(b)** of this section. Except as provided in paragraph **BE.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE greater than or equal to 100 hp and less than or equal to 500 hp, the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee change emission-related settings in a way that is not permitted by the manufacturer. (40 CFR 60.4211(g)(2))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****BF. Emission Unit S2.089**

System 66 – 80 hp Generac Emergency Propane Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.089	Emergency Propane Generator (80 hp; Manufactured by Generac; Model RG06024ANAX; Serial 3003390539; Year 2018)	4,267,113	352,199

1. Air Pollution Control Equipment (NAC 445B.3405)a. **S2.089** has no add-on controls.b. Descriptive Stack Parameters

Stack Height: 10.7 feet

Stack Diameter: 0.26 feet

Stack Temperature: 1,050.0 °F

Exhaust Flow: 581.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)a. **S2.089** may consume only **propane**.b. The maximum allowable fuel consumption rate for **S2.089** shall not exceed **11.0 gallons** per hour, averaged over a calendar day, nor more than **1,100.0 gallons** per 12-month rolling period.c. Hours(1) **S2.089** may operate a total of **24** hours per day.(2) **S2.089** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.3. Emission Limits (NAC 445B.305, NAC 445B.3405)The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.089** the following pollutants in excess of the following specified limits:a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.010** pounds per hour, nor more than **0.00050** tons per 12-month rolling period.b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0096** pounds per hour, nor more than **0.00048** tons per 12-month rolling period.c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0096** pounds per hour, nor more than **0.00048** tons per 12-month rolling period.d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.00059** pounds per hour, nor more than **0.000030** tons per 12-month rolling period.e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **1.77** pounds per hour, nor more than **0.089** tons per 12-month rolling period.f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **68.6** pounds per hour, nor more than **3.43** tons per 12-month rolling period.g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.030** pounds per hour, nor more than **0.0015** tons per 12-month rolling period.h. NAC 445B.22017 – The opacity from the **S2.089** shall not equal or exceed **20** percent.i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.089** shall not exceed **0.70** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BF. Emission Unit S2.089 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **propane** for each calendar day for **S2.089** (in gallons) by use of a fuel flow meter.
- b. Record the corresponding average hourly consumption rate in gallons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- c. Record the consumption rate of **propane**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- d. Monitor and record the hours of operation for **S2.089** for each calendar day.
- e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4233(b))

The Permittee must comply with the emission standards for new non-road SI (spark ignition) ICE (internal combustion engine) in 40 CFR 60.4233(d), for all pollutants, for the same model year and maximum engine power for their 2011 model year and later emergency stationary SI ICE (except for gasoline and rich burn engines that use LPG). (40 CFR 60.4233(d))

- (1) For a 2009 model year and later emergency engine with a rate power of greater than 25 hp and less than 130 hp: (40 CFR 60.4233(b), Table 1)

- (a) The discharge of NO_x to the atmosphere shall not exceed **10** grams/hp-hr (**1.77** pounds/hr).
- (b) The discharge of CO to the atmosphere shall not exceed **387** grams/hp-hr (**68.6** pounds/hr).

b. Monitoring, Operation and Maintenance Requirements (40 CFR 60.4237)

The Permittee must install a non-resettable hour meter if the SI ICE less than 130 hp and does not meet the emission standards in **BF.5.a** of this section. (40 CFR 60.4237(c))

c. Compliance Requirements (40 CFR 60.4234, 60.4243(d))

- (1) The Permittee must operate and maintain the SI ICE over the entire life of the engine. (40 CFR 60.4234)
- (2) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BF.5.c.(2)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BF.5.c.(2)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4243(d))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4243(d)(1))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BF. Emission Unit S2.089 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (continued)

c. Compliance Requirements (40 CFR 60.4234, 60.4243(d)) (continued)

(2) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BF.5.c.(2)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BF.5.c.(2)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4243(d)) (continued)

(b) The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs **BF.5.c.(2)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **BF.5.c.(2)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4243(d)(2)).

i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4243(d)(1)(i))

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in nonemergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **BF.5.c.(2)** of this section. Except as provided in paragraph **BF.5.c.(2)(c)(i)** of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4243(d)(3)).

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions of 40 CFR 60.4243(d)(3)(i)(A) through (E) are met. (40 CFR 60.4243(d)(3)(i))

d. Air-to-Fuel Ratio (40 CFR 60.4243(g))

(1) It is expected that air-to-fuel ratio controllers will be used with the operation of three way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. (40 CFR 60.4243(g))

(2) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of 40 CFR 60.4243. (40 CFR 60.4243(b)(1))

e. Performance Testing (40 CFR 60.4243)

The Permittee of a stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. (40 CFR 60.4243(e))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BF. Emission Unit S2.089 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (continued)

f. Notifications, Reports, and Records Requirement (40 CFR 60.4245)

(1) The Permittee must keep records of the following information: (40 CFR 60.4245(a))

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification. (40 CFR 60.4245(a)(1))
- (b) Maintenance conducted on the engine. (40 CFR 60.4245(a)(2))
- (c) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable. (40 CFR 60.4245(a)(3))
- (d) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards. (40 CFR 60.4245(a)(4))

(2) If the Permittee own or operate an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in 40 CFR 60.4243(d)(3)(i), the Permittee must submit an annual report according to the requirements in paragraphs (e)(1) through (3) of this section. (40 CFR 60.4245(e))

g. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart JJJJ, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

**Bureau of Air Pollution Control****Facility ID No. A0022****Permit No. AP9711-0863.05****CLASS I AIR QUALITY OPERATING PERMIT****Issued to:** DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)**Section IV. Specific Operating Conditions (continued)****BG. Emission Unit S2.090**

System 67 – Generac 30 kW Nominal Output Emergency Diesel Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.090	Generac 30 kW Nominal Output Emergency Diesel Generator (49 hp; engine manufactured by Perkins; model MPKXL02.2NLC; year manufactured 2021)	4,272,919	361,597

1. Air Pollution Control Equipment (NAC 445B.3405)

- S2.090** has no add-on controls.
- Descriptive Stack Parameters
Stack Height: 5.00 feet
Stack Diameter: 0.17 feet
Stack Temperature: 930 °F

2. Operating Parameters (NAC 445B.3405)

- S2.090** may consume only **diesel**.
- The maximum allowable fuel consumption rate for **S2.090** shall not exceed **2.70 gallons** per hour, averaged over a calendar day, nor more than **270.0 gallons** per 12-month rolling period of non-emergency use.
- Hours
 - S2.090** may operate a total of **24** hours per day.
 - S2.090** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.090** the following pollutants in excess of the following specified limits:

- The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.024** pounds per hour, nor more than **0.0012** tons per 12-month rolling period.
- The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.024** pounds per hour, nor more than **0.0012** tons per 12-month rolling period.
- The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.024** pounds per hour, nor more than **0.0012** tons per 12-month rolling period.
- The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.058** pounds per hour, nor more than **0.0029** tons per 12-month rolling period.
- The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **0.60** pounds per hour, nor more than **0.030** tons per 12-month rolling period.
- The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.44** pounds per hour, nor more than **0.022** tons per 12-month rolling period.
- The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.12** pounds per hour, nor more than **0.0061** tons per 12-month rolling period.
- NAC 445B.22017 – The opacity from the **S2.090** shall not equal or exceed **20** percent.
- NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.090** shall not exceed **0.26** pounds per hour.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BG. Emission Unit S2.090 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.090** (in gallons) by multiplying the hourly fuel consumption rate as stated in **BG.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Monitor and record the total daily hours of operation for **S2.090** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
- e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

a. Emissions Standards (40 CFR 60.4205)

The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))

- (1) For a 2008 model year and later non-road engine with a rated power of less than 37 kW (50 hp) and with a displacement of less than 10 liters per cylinder: (40 CFR 60.4202(a)(1)(ii), Table 2)
 - (a) The discharge of PM to the atmosphere shall not exceed **0.30** grams/kW-hr (**0.22** grams/hp-hr) (**0.024** pounds per hour).
 - (b) The discharge of CO to the atmosphere shall not exceed **5.50** grams/kW-hr (**4.10** grams/hp-hr) (**0.44** pounds per hour).
 - (c) The discharge of NOX + NMHC (non-methane hydrocarbon) to the atmosphere shall not exceed **7.50** grams/kW-hr (**5.60** grams/hp-hr) (**0.61** pounds per hour).
- (2) Exhaust opacity may not exceed: (40 CFR 60.4202(a)(1)(ii), 40 CFR 1039.105(b))
 - (a) 20 percent during the acceleration mode.
 - (b) 15 percent during the lugging mode.
 - (c) 50 percent during the peaks in either the acceleration or lugging modes.

b. Fuel Requirements (40 CFR 60.4207)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 60.4207(b), 40 CFR 1090.305)

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) A minimum cetane index of 40; or
- (3) A maximum aromatic content of 35 volume percent.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BG. Emission Unit S2.090 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

c. Monitoring Requirements (40 CFR 60.4209)

If the CI ICE does not meet the standards applicable to non-emergency engines, the Permittee must install a non-resettable hour meter prior to startup of the engine. (40 CFR 60.4209(a))

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

- (1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- (2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))
- (3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **BG.5.d.(5)** of this section. (40 CFR 60.4211(c))
- (4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **BG.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **BG.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))
 - (b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **BG.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **BG.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))
 - i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))
 - (c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **BG.5.d.(4)(b)** of this section. Except as provided in paragraph **BG.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))
 - i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IV. Specific Operating Conditions (continued)

BG. Emission Unit S2.090 (continued)

5. Federal Requirements (continued)

New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211) (continued)

(5) If the Permittee does not install, configure, operate, and maintain the Permittee's engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows: (40 CFR 4211(g))

(a) For CI ICE with a maximum engine power less than 100 hp, the Permittee must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if the Permittee does not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or the Permittee change the emission-related settings in a way that is not permitted by the manufacturer, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action. (40 CFR 60.4211(g)(1))

e. National Emission Standards for Hazardous Air Pollutants for Source Categories – 40 CFR Part 63, Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

If the compression ignition engine meets the requirements of 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ requirements are also met. (40 CFR Part 63.6590(c))

*****End of Specific Operating Conditions*****



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section V. Continuous Emissions Monitoring System (CEMS) Conditions

- A. 40 CFR Part 60 Appendix B and Appendix F – Carbon Monoxide (CO) Continuous Emissions Monitoring System (CEMS) Requirements for **S2.043 (PODS Waste Handling Blending, Building 117-2)** (NAC 445B.3405)
1. On or before the date of start-up of **S2.043**, the Permittee shall install, calibrate, operate, and maintain a **CO CEMS** in the exhaust stacks of **S2.043**. The CEMS sampling probe must be installed at an appropriate location in the exhaust stacks to accurately and continuously measure the concentration of CO (in ppmv) from **S2.043**, in accordance with the requirements prescribed in Nevada Administrative Code (NAC) 445B.252 to NAC 445B.267, applicable subparts 40 CFR Part 60 Appendix B and Appendix F. Verification of the operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the devices.
 2. The Permittee shall conduct a Relative Accuracy (RA) test according to the procedure given in 40 CFR Part 60 Appendix B Performance Specification (PS) 2 Sections 8.4.3, 8.4.4, and 8.4.5. (40 CFR Part 60 Appendix B PS-4 Section 8.1)
 3. The Permittee shall comply with the following method performance specifications (40 CFR Part 60 Appendix B PS-4 Section 13.0)
 - a. Calibration Drift
 - b. Relative Accuracy
 4. The Permittee shall develop and implement a Quality Control (QC) program. As a minimum, each QC program must include written procedures which should describe in detail, complete, step-by-step procedures and operations for each of the following activities (40 CFR Part 60 Appendix F Procedure 1 Section 3.0):
 - a. Calibration of CEMS
 - b. Calibration maintenance of CEMS (including spare parts inventory)
 - c. Preventative maintenance of CEMS (including spare parts inventory)
 - d. Data recording, calculations, and reporting
 - e. Accuracy audit procedures including sampling and analysis methods
 - f. Program of corrective action for malfunctioning CEMS
 5. The written procedures under **A.4.** of this section, must be kept on record and available for inspection by the Director. (40 CFR Part 60 Appendix F Procedure 1 Section 3.0)
 6. The Permittee shall conduct a Calibration Drift Assessment according to 40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2. (40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2).
 7. The Permittee shall record and report all CEMS data according to 40 CFR Part 60 Appendix F Procedure 1 Section 4.4. All measurements from the CEMS must be retained on file by the Permittee for at least 2 years. (40 CFR Part 60 Appendix F Procedure 1 Section 4.4)
 8. Each CEMS must be audited at least once each calendar quarter. Successive quarterly audits shall occur no closer than 2 months. The audits shall be conducted as follows (40 CFR Part 60 Appendix F Procedure 1 Section 5.1):
 - a. The Relative Accuracy Test (RATA) shall be conducted once every four calendar quarters. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.1)
 - b. The Cylinder Gas Audit (CGA) shall be conducted every quarter except when a RATA is conducted. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.2)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section V. Continuous Emissions Monitoring System (CEMS) Conditions (continued)

- A. 40 CFR Part 60 Appendix B and Appendix F – CO Continuous Emissions Monitoring System (CEMS) Requirements for **S2.043 (PODS Waste Handling Blending, Building 117-2) (NAC 445B.3405)** (continued)
9. Unless specified otherwise in the applicable subpart, the Permittee shall comply with the relative accuracy criteria:
 - a. For RATA (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(1)):
 - (1) For CO emissions, RA shall be less than or equal to 10% (if the value determined by the Reference Method (RM) is greater than 50% of the emission limit) or RA shall be less than or equal to 5% (if the value determined by the RM is less than 50% of the emission limit). (40 CFR Part 60 Appendix B PS-4 Section 13.2)
 - b. For CGA ± 15 percent of the average audit value for ± 5 ppm, whichever is greater. (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(2))
 10. The Permittee shall conduct and report to the Director a quarterly audit as specified under 40 CFR Part 60 Appendix F Procedure 1 Section 7.0. (40 CFR Part 60 Appendix F Procedure 1 Section 7.0)
- B. 40 CFR Part 60 Appendix B and Appendix F – CO Continuous Emissions Monitoring System (CEMS) Requirements for **S2.046 (MDRK and Metal Feeding/Recycling System) and S2.047 (Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr)), combined, and S2.077 (Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input) and S2.078 (Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input), combined (NAC 445B.3405)**
1. On or before the date of start-up of **S2.046 and S2.047**, combined, and **S2.077 and S2.078**, combined, the Permittee shall install, calibrate, operate, and maintain a **CO CEMS** in the exhaust stacks of **S2.046 and S2.047**, combined, and **S2.077 and S2.078**, combined. The CEMS sampling probe must be installed at an appropriate location in the exhaust stacks to accurately and continuously measure the concentration of CO (in ppmv) from **S2.046, S2.047, S2.077, and S2.078**, in accordance with the requirements prescribed in Nevada Administrative Code (NAC) 445B.252 to NAC 445B.267, applicable subparts 40 CFR Part 60 Appendix B and Appendix F. Verification of the operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the devices.
 2. The Permittee shall comply with the following method performance specifications (40 CFR Part 60 Appendix B PS-4 Section 13.0)
 - a. Calibration Drift
 - b. Relative Accuracy
 3. The Permittee shall develop and implement a Quality Control (QC) program. As a minimum, each QC program must include written procedures which should describe in detail, complete, step-by-step procedures and operations for each of the following activities (40 CFR Part 60 Appendix F Procedure 1 Section 3.0):
 - a. Calibration of CEMS
 - b. Calibration maintenance of CEMS (including spare parts inventory)
 - c. Preventative maintenance of CEMS (including spare parts inventory)
 - d. Data recording, calculations, and reporting
 - e. Accuracy audit procedures including sampling and analysis methods
 - f. Program of corrective action for malfunctioning CEMS
 4. The written procedures under **B.3.** of this section, must be kept on record and available for inspection by the Director. (40 CFR Part 60 Appendix F Procedure 1 Section 3.0)
 5. The Permittee shall conduct a Calibration Drift Assessment according to 40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2. (40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2).



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section V. Continuous Emissions Monitoring System (CEMS) Conditions (continued)

- B. 40 CFR Part 60 Appendix B and Appendix F – CO Continuous Emissions Monitoring System (CEMS) Requirements for **S2.046 (MDRK and Metal Feeding/Recycling System) and S2.047 (Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr))**, combined, and **S2.077 (Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input) and S2.078 (Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input)**, combined (NAC 445B.3405) (continued)
6. The Permittee shall record and report all CEMS data according to 40 CFR Part 60 Appendix F Procedure 1 Section 4.4. All measurements from the CEMS must be retained on file by the Permittee for at least 2 years. (40 CFR Part 60 Appendix F Procedure 1 Section 4.4)
 7. Each CEMS must be audited at least once each calendar quarter. Successive quarterly audits shall occur no closer than 2 months. The audits shall be conducted as follows (40 CFR Part 60 Appendix F Procedure 1 Section 5.1):
 - a. The Relative Accuracy Test (RATA) shall be conducted once every four calendar quarters. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.1)
 - b. The Absolute Calibration Audit (ACA) shall be conducted every quarter except when a RATA is conducted. (40 CFR Part 63 Subpart EEE Section 5)
 8. Unless specified otherwise in the applicable subpart, the Permittee shall comply with the relative accuracy criteria:
 - a. For RATA (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(1)):
 - (1) For CO emissions, RA shall be less than or equal to 10% (if the value determined by the Reference Method (RM) is greater than 50% of the emission limit) or RA shall be less than or equal to 5% (if the value determined by the RM is less than 50% of the emission limit). (40 CFR Part 60 Appendix B PS-4 Section 13.2)
 - b. For CGA ± 15 percent of the average audit value for ± 5 ppm, whichever is greater. (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(2))
 9. The Permittee shall conduct and report to the Director a quarterly audit as specified under 40 CFR Part 60 Appendix F Procedure 1 Section 7.0. (40 CFR Part 60 Appendix F Procedure 1 Section 7.0)
- C. 40 CFR Part 60 Appendix B and Appendix F – Oxides of Nitrogen (NO_x) Continuous Emissions Monitoring System (CEMS) Requirements for **S2.046 (MDRK and Metal Feeding/Recycling System) and S2.047 (Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr))**, combined, and **S2.077 (Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input) and S2.078 (Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input)**, combined (NAC 445B.3405)
1. On or before the date of start-up of **S2.046 and S2.047**, combined, and **S2.077 and S2.078**, combined, the Permittee shall install, calibrate, operate, and maintain an NO_x CEMS in the exhaust stacks of **S2.046 and S2.047**, combined, and **S2.077 and S2.078**, combined. The CEMS sampling probe must be installed at an appropriate location in the exhaust stacks to accurately and continuously measure the concentration of NO_x (in ppmv) from **S2.046, S2.047, S2.077, and S2.078**, in accordance with the requirements prescribed in Nevada Administrative Code (NAC) 445B.252 to NAC 445B.267, applicable subparts 40 CFR Part 60 Appendix B and Appendix F. Verification of the operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the devices.
 2. The Permittee shall comply with the following method performance specifications (40 CFR Part 60 Appendix B PS-2 Section 13.0):
 - a. Calibration Drift
 - b. Relative Accuracy



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section V. Continuous Emissions Monitoring System (CEMS) Conditions (continued)

- C. 40 CFR Part 60 Appendix B and Appendix F – NO_x Continuous Emissions Monitoring System (CEMS) Requirements for **S2.046 (MDRK and Metal Feeding/Recycling System) and S2.047 (Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr))**, combined, and **S2.077 (Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input) and S2.078 (Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input)**, combined (NAC 445B.3405) (continued)
3. The Permittee shall develop and implement a Quality Control (QC) program. As a minimum, each QC program must include written procedures which should describe in detail, complete, step-by-step procedures and operations for each of the following activities (40 CFR Part 60 Appendix F Procedure 1 Section 3.0):
 - a. Calibration of CEMS
 - b. Calibration maintenance of CEMS (including spare parts inventory)
 - c. Preventative maintenance of CEMS (including spare parts inventory)
 - d. Data recording, calculations, and reporting
 - e. Accuracy audit procedures including sampling and analysis methods
 - f. Program of corrective action for malfunctioning CEMS
 4. The written procedures under **C.3.** of this section, must be kept on record and available for inspection by the Director. (40 CFR Part 60 Appendix F Procedure 1 Section 3.0)
 5. The Permittee shall conduct a Calibration Drift Assessment according to 40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2. (40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2).
 6. The Permittee shall record and report all CEMS data according to 40 CFR Part 60 Appendix F Procedure 1 Section 4.4. All measurements from the CEMS must be retained on file by the Permittee for at least 2 years. (40 CFR Part 60 Appendix F Procedure 1 Section 4.4)
 7. Each CEMS must be audited at least once each calendar quarter. Successive quarterly audits shall occur no closer than 2 months. The audits shall be conducted as follows (40 CFR Part 60 Appendix F Procedure 1 Section 5.1):
 - a. The Relative Accuracy Test (RATA) shall be conducted once every four calendar quarters. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.1)
 - b. The Cylinder Gas Audit (CGA) shall be conducted every quarter except when a RATA is conducted. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.2)
 8. Unless specified otherwise in the applicable subpart, the Permittee shall comply with the relative accuracy criteria:
 - a. For RATA (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(1)):
 - (1) For SO₂ and NO_x emissions, RA shall be less than or equal to 20% (if the value determined by the Reference Method (RM) is greater than 50% of the emission limit) or RA shall be less than or equal to 10% (if the value determined by the RM is less than 50% of the emission limit). (40 CFR Part 60 Appendix B PS-2 Section 13.2)
 - b. For CGA ±15 percent of the average audit value for ±5 ppm, whichever is greater. (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(2))
 9. The Permittee shall conduct and report to the Director a quarterly audit as specified under 40 CFR Part 60 Appendix F Procedure 1 Section 7.0. (40 CFR Part 60 Appendix F Procedure 1 Section 7.0)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section V. Continuous Emissions Monitoring System (CEMS) Conditions (continued)

D. NAC 445B.265

Monitoring systems: Records: Reports

1. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of an affected facility and any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.
2. The Permittee required to install a continuous monitoring system shall submit a written report of excess emissions to the director for every calendar quarter. All quarterly reports must be postmarked by the 30th day following the end of each calendar quarter and must include the following information:
 - a. The magnitude of excess emissions computed in accordance with NAC 445B.256 to 445B.267, inclusive, any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
 - b. Specific identification of each period of excess emissions that occurs during start-ups, shutdowns and malfunctions of the affected facility.
 - c. The nature and cause of any malfunction, if known, the corrective action taken or preventative measures adopted.
 - d. Specific identification of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of any repairs or adjustments that were made.
 - (1) When no excess emissions have occurred and the continuous monitoring system has not been inoperative, repaired or adjusted, such information shall be included in the report.
3. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain a file of all measurements, including:
 - a. Continuous monitoring systems, monitoring devices and performance testing measurements;
 - b. All continuous monitoring system performance evaluations;
 - c. All continuous monitoring systems or monitoring device calibration checks;
 - d. Adjustments and maintenance performed on these systems or devices; and
 - e. All other information required by NAC 445B.256 to 445B.267, inclusive, recorded in a permanent form suitable for inspection.
 - (1) The file shall be retained for at least 2 years following the date of the measurements, maintenance, reports and records.

*****End of Continuous Emissions Monitoring System (CEMS) Conditions*****



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VI. Continuous Opacity Monitoring System (COMS) Conditions

- A. 40 CFR Part 60 Appendix B and Appendix F for Opacity – Continuous Opacity Monitoring System (COMS) Requirements for **S2.043 (PODS Waste Handling Blending, Building 117-2)** (NAC 445B.3405)
1. On or before the date of start-up of **S2.043**, the Permittee shall install, calibrate, operate, and maintain **COMS** in the exhaust stacks of **S2.043**, along with the automated Data Acquisition Handling System (DAHS) required under 40 CFR part 60 Appendix B Performance Specification 1 (PS-1) Section 6.1 for measuring and recording the opacity of emissions (in percent opacity) discharged to the atmosphere. The DAHS shall provide a continuous, permanent record of all measurements and required information in an electronic format. The opacity monitor must be installed at a location in the exhaust stacks of **S2.043**, to accurately and continuously measure the opacity discharged to the atmosphere in accordance with all the requirements prescribed in NAC 445B.525 to NAC 445B.267 and 40 CFR Part 60 Appendix B PS-1.
 2. The Permittee may select to establish a reduced full scale range of no less than 50 percent opacity instead of the 80 percent as prescribed in 40 CFR Part 60 Appendix B PS-1 Section 3.5, if the applicable opacity limit for the facility is less than 10 percent. (40 CFR Part 60, Appendix B, PS-1, Section 1.3)
 3. The Permittee shall follow installation guidelines of the COMS and conduct a set of field performance tests that confirm the acceptability of the COMS after it is installed. (40 CFR Part 60 Appendix B, PS-1 Section 2.2.)
 4. The Permittee is encouraged to seek approval for the opacity monitor location from the Director prior to installation. (40 CFR Part 60 Appendix B PS-1 Section 2.2)
 5. The Permittee shall follow the procedures specified under 40 CFR Part 60 Appendix B PS-1 Section 8.1 to verify the performance of the COMS. (40 CFR Part 60 Appendix B PS-1 Section 8.1)
 6. The Permittee shall comply with the following field audit performance specifications for the installed COMS (40 CFR Part 60 Appendix B PS-1 Section 13.3):
 - a. Optical Alignment
 - b. Calibration Error
 - c. System Response Time
 - d. Averaging Period Calculation and Recording
 - e. Operational Test Period
 - f. Zero and Upscale Calibration Drift Error
 7. The Permittee shall conduct the basic functions for each COMS, including the following (40 CFR Part 60 Appendix F Procedure 3 Section 2.0):
 - a. Daily instrument zero and upscale drift checks and status indicator checks;
 - b. Quarterly performance audits which include the following assessments:
 - (1) Optical alignment,
 - (2) Calibration error, and
 - (3) Zero compensation.
 - c. Annual zero alignment.
 8. Quarterly performance audits may be reduced to a semi-annual frequency if the Permittee achieves quality assured data for four consecutive quarters. (40 CR Part 60 Appendix F Procedure 3 Section 2.0)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VI. Continuous Opacity Monitoring System (COMS) Conditions (continued)

- A. 40 CFR Part 60 Appendix B and Appendix F for Opacity – Continuous Opacity Monitoring System (COMS) Requirements for **S2.043 (PODS Waste Handling Blending, Building 117-2)** (NAC 445B.3405) (continued)
9. The Permittee shall develop and implement a Quality Control (QC) program for COMS. The QC program shall, at a minimum, include written procedures which describe in detail complete step-by-step procedures and operations for the following (40 CFR Part 60 Appendix F Procedure 3 Section 9.0):
 - a. Procedures for performing drift checks, including both zero and upscale drift and the status indicators check,
 - b. Procedures for performing quarterly performance audits,
 - c. A means of checking the zero alignment of the COMS, and
 - d. A program of corrective action for a malfunctioning COMS.
 10. These written procedures must be kept on record and available for inspection by the Director. (40 CFR Part 60 Appendix F Procedure 3, Section 9.1)
 11. The Permittee shall follow the calibration and standardization procedures under 40 CFR Part 60 Appendix F Procedure 3 Sections 10.0(1) through 10.0(3) (40 CFR Part 60 Appendix F Procedure 3 Section 10.0):
 - a. Daily system checks
 - b. COMS performance audit once per operating quarter
 - c. At least annually, a zero alignment
 12. The Permittee shall meet the following audit accuracy requirements (40 CFR Part 60 Appendix F Procedure 3 Section 10.4):
 - a. The zero alignment shall not exceed 2 percent opacity
 - b. For quarterly performance audit criteria:
 - (1) The optical alignment indicator does not show proper alignment
 - (2) Zero compensation shall not exceed 4 percent opacity
 - (3) Calibration error shall not exceed 3 percent opacity
 13. The Permittee shall report all CEMS data according to 40 CFR Part 60 Appendix F Procedure 3 Sections 10.9 and 10.10. (40 CFR Part 60 Appendix F Procedure 3 Sections 10.9 through 10.10)
- B. 40 CFR Part 60 Appendix B and Appendix F for Opacity – Continuous Opacity Monitoring System (COMS) Requirements for **S2.046 (MDRK and Metal Feeding/Recycling System) and S2.047 (Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr)), combined, and S2.077 (Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input) and S2.078 (Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input), combined** (NAC 445B.3405)
1. On or before the date of start-up of **S2.046 and S2.047**, combined, and **S2.077 and S2.078**, combined, the Permittee shall install, calibrate, operate, and maintain COMS in the exhaust stacks of **S2.046, S2.047, S2.077, and S2.078**, along with the automated Data Acquisition Handling System (DAHS) required under 40 CFR part 60 Appendix B Performance Specification 1 (PS-1) Section 6.1 for measuring and recording the opacity of emissions (in percent opacity) discharged to the atmosphere. The DAHS shall provide a continuous, permanent record of all measurements and required information in an electronic format. The opacity monitor must be installed at a location in the exhaust stacks of **S2.046, S2.047, S2.077, and S2.078**, to accurately and continuously measure the opacity discharged to the atmosphere in accordance with all the requirements prescribed in NAC 445B.525 to NAC 445B.267 and 40 CFR Part 60 Appendix B PS-1.
 2. The Permittee may select to establish a reduced full scale range of no less than 50 percent opacity instead of the 80 percent as prescribed in 40 CFR Part 60 Appendix B PS-1 Section 3.5, if the applicable opacity limit for the facility is less than 10 percent. (40 CFR Part 60, Appendix B, PS-1, Section 1.3)



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VI. Continuous Opacity Monitoring System (COMS) Conditions (continued)

- B. 40 CFR Part 60 Appendix B and Appendix F for Opacity – Continuous Opacity Monitoring System (COMS) Requirements for **S2.046 (MDRK and Metal Feeding/Recycling System) and S2.047 (Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr)), combined, and S2.077 (Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input) and S2.078 (Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input), combined (NAC 445B.3405) (continued)**
3. The Permittee shall comply with the following field audit performance specifications for the installed COMS (40 CFR Part 60 Appendix B PS-1 Section 13.3):
 - a. Optical Alignment
 - b. Calibration Error
 - c. System Response Time
 - d. Averaging Period Calculation and Recording
 - e. Operational Test Period
 - f. Zero and Upscale Calibration Drift Error
 4. The Permittee shall conduct the basic functions for each COMS, including the following (40 CFR Part 60 Appendix F Procedure 3 Section 2.0):
 - a. Daily instrument zero and upscale drift checks and status indicator checks;
 - b. Quarterly performance audits which include the following assessments:
 - (1) Optical alignment,
 - (2) Calibration error, and
 - (3) Zero compensation.
 - c. Annual zero alignment.
 5. Quarterly performance audits may be reduced to a semi-annual frequency if the Permittee achieves quality assured data for four consecutive quarters. (40 CR Part 60 Appendix F Procedure 3 Section 2.0)
 6. The Permittee shall develop and implement a Quality Control (QC) program for COMS. The QC program shall, at a minimum, include written procedures which describe in detail complete step-by-step procedures and operations for the following (40 CFR Part 60 Appendix F Procedure 3 Section 9.0):
 - a. Procedures for performing drift checks, including both zero and upscale drift and the status indicators check,
 - b. Procedures for performing quarterly performance audits,
 - c. A means of checking the zero alignment of the COMS, and
 - d. A program of corrective action for a malfunctioning COMS.
 7. These written procedures must be kept on record and available for inspection by the Director. (40 CFR Part 60 Appendix F Procedure 3, Section 9.1)
 8. The Permittee shall follow the calibration and standardization procedures under 40 CFR Part 60 Appendix F Procedure 3 Sections 10.0(1) through 10.0(3) (40 CFR Part 60 Appendix F Procedure 3 Section 10.0):
 - a. Daily system checks
 - b. COMS performance audit once per operating quarter
 - c. At least annually, a zero alignment



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VI. Continuous Opacity Monitoring System (COMS) Conditions (continued)

- B. 40 CFR Part 60 Appendix B and Appendix F for Opacity – Continuous Opacity Monitoring System (COMS) Requirements for **S2.046 (MDRK and Metal Feeding/Recycling System) and S2.047 (Primary Combustion Chamber (Manufactured by Hauck; Model 784 PAC; Heat Input 8.2 MMBtu/hr)), combined, and S2.077 (Rotary Kiln (Refractory Lined Rotary Furnace), 16.5 MMBtu/hr Heat Input) and S2.078 (Secondary Combustion Chamber, 5.4 MMBtu/hr Heat Input), combined (NAC 445B.3405) (continued)**
9. The Permittee shall meet the following audit accuracy requirements (40 CFR Part 60 Appendix F Procedure 3 Section 10.4):
- The zero alignment shall not exceed 2 percent opacity
 - For quarterly performance audit criteria:
 - The optical alignment indicator does not show proper alignment
 - Zero compensation shall not exceed 4 percent opacity
 - Calibration error shall not exceed 3 percent opacity
10. The Permittee shall report all CEMS data according to 40 CFR Part 60 Appendix F Procedure 3 Sections 10.9 and 10.10. (40 CFR Part 60 Appendix F Procedure 3 Sections 10.9 through 10.10)
- C. NAC 445B.265
Monitoring systems: Records; Reports
- The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of an affected facility and any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.
 - The Permittee required to install a continuous monitoring system shall submit a written report of excess emissions to the director for every calendar quarter. All quarterly reports must be postmarked by the 30th day following the end of each calendar quarter and must include the following information:
 - The magnitude of excess emissions computed in accordance with NAC 445B.256 to 445B.267, inclusive, any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
 - Specific identification of each period of excess emissions that occurs during start-ups, shutdowns and malfunctions of the affected facility.
 - The nature and cause of any malfunction, if known, the corrective action taken or preventative measures adopted.
 - Specific identification of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of any repairs or adjustments that were made.
 - When no excess emissions have occurred and the continuous monitoring system has not been inoperative, repaired or adjusted, such information shall be included in the report.
 - The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain a file of all measurements, including:
 - Continuous monitoring systems, monitoring devices and performance testing measurements;
 - All continuous monitoring system performance evaluations;
 - All continuous monitoring systems or monitoring device calibration checks;
 - Adjustments and maintenance performed on these systems or devices; and
 - All other information required by NAC 445B.256 to 445B.267, inclusive, recorded in a permanent form suitable for inspection.
 - The file shall be retained for at least 2 years following the date of the measurements, maintenance, reports and records.

*****End of Continuous Opacity Monitoring System (COMS) Conditions*****



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VII. Emission Caps

A. Open Burning Hazardous Air Pollutant Emission Cap for Emissions Units F1.001 through F1.020

1. Emission Limits (NAC 445B.070)

On and after the date of issuance of this operating permit, the Permittee shall not discharge or cause the discharge into the atmosphere from **F1.001 through F1.020**, combined, the following specified limits:

- a. The **individual** discharge of each **Hazardous Air Pollutant** to the atmosphere shall not exceed **9.07** tons per calendar year.
- b. The **combined** discharge of all **Hazardous Air Pollutants** to the atmosphere shall not exceed **18.07** tons per calendar year.
- c. The emission limits in this paragraph apply at all times, including startups, shutdowns, and normal operations.

2. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

In addition to the monitoring and recordkeeping requirements contained in Section **Y.4.** of this operating permit, the Permittee shall:

- a. Monitor and record the following utilizing the Munitions Items Disposition Action System (MIDAS) or military munitions/propellants items manufacturer specifications. The Permittee shall determine and record the following information for each munition/propellants item to be burned:
 - (1) The individual total for each single **Hazardous Air Pollutant**, for each day of open burning, on a daily basis.
 - (2) The combined total for all **Hazardous Air Pollutants**, for each day of opening burning, on a daily basis.
 - (3) The cumulative annual total for each single **Hazardous Air Pollutant**, on a monthly basis.
 - (4) The cumulative annual total for the combined **Hazardous Air Pollutants**, on a monthly basis.
- b. The required monitoring and record keeping established in **A.2.a.(1).** through **A.2.a.(4).** in this section shall be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (1) The total of each individual **Hazardous Air Pollutant** for each day of opening burning.
 - (2) The total of all **Hazardous Air Pollutants** for each day of open burning.
 - (3) The cumulative monthly total of each single **Hazardous Air Pollutant**.
 - (4) The cumulative monthly total of combined **Hazardous Air Pollutants**.
 - (5) The cumulative annual total of each single **Hazardous Air Pollutant**.
 - (6) The cumulative annual total of combined **Hazardous Air Pollutants**.

B. Main Base Facility-Wide Cap for Hazardous Air Pollutants

1. Emission Limits (NAC 445B.070)

On and after the date of issuance of this operating permit, the Permittee shall not discharge or cause the discharge into the atmosphere from the **Main Base Facility** the following specified limits:

- a. The discharge of any single **Hazardous Air Pollutant** to the atmosphere shall not exceed **9.90** tons per 12-month rolling period.
- b. The discharge of any single **HCl** (hydrogen chloride) to the atmosphere shall not exceed **9.90** tons per 12-month rolling period.
- c. The discharge of any combination of **Hazardous Air Pollutant** to the atmosphere shall not exceed **24.9** tons per 12-month rolling period.



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VII. Emission Caps (continued)

B. Main Base Facility-Wide Cap for Hazardous Air Pollutants (continued)

2. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record.

- a. Monitor and record the resulting Main Base facility-wide single **Hazardous Air Pollutant** emissions in tons for each **Hazardous Air Pollutant** on a monthly basis.
- b. Monitor and record the resulting Main Base facility-wide single **Hazardous Air Pollutant** emissions in tons for each **Hazardous Air Pollutant** on a 12-month rolling period.
- c. Monitor and record the resulting Main Base facility-wide single **HCl** emissions in tons on a monthly basis.
- d. Monitor and record the resulting Main Base facility-wide single **HCl** emissions in tons on a 12-month rolling period.
- e. Monitor and record the resulting Main Base facility-wide combined **Hazardous Air Pollutant** emissions in tons on a monthly basis.
- f. Monitor and record the resulting Main Base facility-wide combined **Hazardous Air Pollutant** emissions in tons on a 12-month rolling period.

C. Main Base Facility-Wide Cap for Oxides of Nitrogen (NO_x)

1. Emission Limits (NAC 445B.070)

On and after the date of issuance of this operating permit, the Permittee shall not discharge or cause the discharge into the atmosphere from the **Main Base Facility** the following specified limits:

- a. The discharge of NO_x to the atmosphere shall not exceed **249.0** tons per 12-month rolling period.

2. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record.

- a. Monitor and record the total annual discharge of NO_x for **Systems 01 (S2.001), 04 (S2.004), 07 (S2.011), 08 (S2.014), 26 (S2.043), 27 (S2.044), 30 (S2.046, S2.047), 35 (S2.052), 39 (S2.056), 40 (S2.057), 41 (S2.058), 42 (S2.059), 43 (S2.060), 44 (S2.061), 45 (S2.062), 48 (S2.067), 49 (S2.068), 51 (S2.073), 53 (S2.075), 55 (S2.076), 56 (S2.077-S2.078), 57 (S2.079), 58 (S2.080), 59 (S2.081-S2.082), 60 (S2.083), 61 (S2.084), 62 (S2.085), 63 (S2.086), 64 (S2.087), 65 (S2.088), and 66 (S2.089)**, combined, at the end of each 12-month rolling period. The total annual NO_x emissions for the facility shall be calculated as the sum of the 12-month rolling emissions from **Systems 01 (S2.001), 04 (S2.004), 07 (S2.011), 08 (S2.014), 26 (S2.043), 27 (S2.044), 30 (S2.046, S2.047), 35 (S2.052), 39 (S2.056), 40 (S2.057), 41 (S2.058), 42 (S2.059), 43 (S2.060), 44 (S2.061), 45 (S2.062), 48 (S2.067), 49 (S2.068), 51 (S2.073), 53 (S2.075), 55 (S2.076), 56 (S2.077-S2.078), 57 (S2.079), 58 (S2.080), 59 (S2.081-S2.082), 60 (S2.083), 61 (S2.084), 62 (S2.085), 63 (S2.086), 64 (S2.087), 65 (S2.088), and 66 (S2.089)**. The Permittee shall calculate the sum based on one of the following equations for each month:

$$[(\sum_{i=1}^6 E_{x_i} \div F_{x_i} \times T_{x_i}) + (\sum_{i=1}^{25} E_{y_i} \div F_{y_i} \times T_{y_i})] \div C + E_{S30} + E_{S56} = E_{NOx},$$

Where:

x_i is each of six (6) permitted systems that require renewal testing for NO_x and do not have NO_x CEMS, including **Systems 01 (S2.001), 04 (S2.004), 07 (S2.011), 08 (S2.014), 26 (S2.043), and 27 (S2.044)**;

E_{x_i} is the average emissions of NO_x from the latest valid NO_x source test for **each system represented by x_i** in lb/hr;

F_{x_i} is the average fuel usage rate of **each system represented by x_i** from the latest valid NO_x source test in gallons/hr;

T_{x_i} is actual fuel usage from the previous rolling 12-months for **each system represented by x_i** in gallons/year;



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VII. Emission Caps (continued)

C. Main Base Facility-Wide Cap for Oxides of Nitrogen (NO_x) (continued)

2. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. (continued)

- a. Monitor and record the total annual discharge of NO_x for **Systems 01 (S2.001), 04 (S2.004), 07 (S2.011), 08 (S2.014), 26 (S2.043), 27 (S2.044), 30 (S2.046, S2.047), 35 (S2.052), 39 (S2.056), 40 (S2.057), 41 (S2.058), 42 (S2.059), 43 (S2.060), 44 (S2.061), 45 (S2.062), 48 (S2.067), 49 (S2.068), 51 (S2.073), 53 (S2.075), 55 (S2.076), 56 (S2.077-S2.078), 57 (S2.079), 58 (S2.080), 59 (S2.081-S2.082), 60 (S2.083), 61 (S2.084), 62 (S2.085), 63 (S2.086), 64 (S2.087), 65 (S2.088), and 66 (S2.089)**, combined, at the end of each 12-month rolling period. The total annual NO_x emissions for the facility shall be calculated as the sum of the 12-month rolling emissions from **Systems 01 (S2.001), 04 (S2.004), 07 (S2.011), 08 (S2.014), 26 (S2.043), 27 (S2.044), 30 (S2.046, S2.047), 35 (S2.052), 39 (S2.056), 40 (S2.057), 41 (S2.058), 42 (S2.059), 43 (S2.060), 44 (S2.061), 45 (S2.062), 48 (S2.067), 49 (S2.068), 51 (S2.073), 53 (S2.075), 55 (S2.076), 56 (S2.077-S2.078), 57 (S2.079), 58 (S2.080), 59 (S2.081-S2.082), 60 (S2.083), 61 (S2.084), 62 (S2.085), 63 (S2.086), 64 (S2.087), 65 (S2.088), and 66 (S2.089)**. The Permittee shall calculate the sum based on one of the following equations for each month (continued):

y_i is each of twenty-five (25) permitted systems that do not have any periodic NO_x testing or CEMS, including **Systems 35 (S2.052), 39 (S2.056), 40 (S2.057), 41 (S2.058), 42 (S2.059), 43 (S2.060), 44 (S2.061), 45 (S2.062), 48 (S2.067), 49 (S2.068), 51 (S2.073), 53 (S2.075), 55 (S2.076), 56 (S2.077-S2.078), 58 (S2.080), 59 (S2.081-S2.082), 60 (S2.083), 61 (S2.084), 62 (S2.085), 63 (S2.086), 64 (S2.087), 65 (S2.088), and 66 (S2.089)**;

E_{y_i} is the permitted emissions of NO_x for **each system represented by y_i** in lb/hr;

F_{y_i} is the permitted fuel usage rate (or material throughput rate if no fuel is used for a given system) of **each system represented by y_i** in gallons/hr (or square inches of steel/hr if no fuel is used);

T_{y_i} is actual fuel usage (or material throughput rate if no fuel is used for a given system) from the previous rolling 12-months for **each system represented by y_i** in gallons/year (or square inches of steel/year if no fuel is used);

C is a conversion factor of 2000 lb/ton, and;

E_{S30} is the actual emissions of NO_x for **System 30 (S2.046, S2.047)** based on NO_x emissions measured by the CEMS for the previous rolling 12-months in tons/year. For any time period where the analyzer is out-of-control or the data is invalid, the data substitution procedures found in 40 CFR 75.33 must be used;

E_{S56} is the actual emissions of NO_x for **System 56 (S2.077-S2.078)** based on NO_x emissions measured by the CEMS for the previous rolling 12-months in tons/year. For any time period where the analyzer is out-of-control or the data is invalid, the data substitution procedures found in 40 CFR 75.33 must be used;

E_{NOx} is the calculated rolling 12-month annual NO_x emissions in tons/year



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VII. Emission Caps (continued)

D. Main Base Boiler Fuel Consumption Cap

1. Operating Parameters (NAC 445B.3405)
 - a. **S2.001, S2.004, S2.011, S2.014, S2.073, and S2.079** may consume only **diesel**.
 - b. The maximum allowable annual fuel consumption rate for **S2.001, S2.004, S2.011, S2.014, S2.073, and S2.079**, combined, shall not exceed **1,500,000.0 gallons** per 12-month rolling period.

*****End of Emission Caps*****



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section VIII. Surface Area Disturbance Conditions

The surface area disturbance for the **Hawthorne Army Depot** is **144,441** acres.

A. Fugitive Dust (NAC 445B.22037)

1. The Permittee may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne.
2. Except as otherwise provided in NAC 445B.22037(4), the Permittee may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in NAC 445B.22037, "best practical methods" includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.
3. Except as provided in NAC 445B.22037(4), the Permittee may not disturb or cover 5 acres or more of land or its topsoil until Permittee has obtained an Operating permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of NAC 445B.22037(2) and (3) do not apply to:
 - a. Agricultural activities occurring on agricultural land; or
 - b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.

******End of Surface Area Disturbance Conditions******



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section IX. Schedules of Compliance

A. Not Applicable

******End of Schedule of Compliance ******

DRAFT



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Section X. Amendments

This permit:

1. Shall be posted conspicuously at or near the stationary source. (NAC 445B.318(5))
2. Shall expire and be subject to renewal five (5) years from: July 19, 2024 .
(NAC 445B.315(3)(a))
3. A completed application for renewal of an operating permit must be submitted to the Director on the form provided by the Director with the appropriate fee at least 240 calendar days before the expiration date of this operation permit (NAC 445B.3443(2)). The Director shall determine whether the application is complete within 60 days of receipt of the application (NAC 445B.3395).
4. Any party aggrieved by the Department's decision to issue this permit may appeal to the State Environmental Commission (SEC) within ten days after the date of notice of the Department's action. (NRS 445B.340)

THIS PERMIT EXPIRES ON: July 19, 2029

Signature: _____

Issued by: Jaimie Mara
Supervisor, Permitting Branch
Bureau of Air Pollution Control

Phone: (775) 687- 9343 **Date:** Signature Date



Bureau of Air Pollution Control

Facility ID No. A0022

Permit No. AP9711-0863.05

CLASS I AIR QUALITY OPERATING PERMIT

Issued to: DEPARTMENT OF THE ARMY, HAWTHORNE ARMY DEPOT (HWAD) (AS PERMITTEE)

Class I Non-Permit Equipment List

Appended to Permit #AP9711-0863.05

Emission Unit #	Emission Unit Description
IA1.002A	Cold Solvent Cleaner 1
IA1.002B	Cold Solvent Cleaner 2
IA1.002C	Cold Solvent Cleaner 3
IA1.002D	Cold Solvent Cleaner 4
IA1.002E	Cold Solvent Cleaner 5
IA1.002F	Cold Solvent Cleaner 6
IA1.002G	Cold Solvent Cleaner 7
IA1.002H	Cold Solvent Cleaner 8
IA1.002I	Cold Solvent Cleaner 9
IA1.002J	Cold Solvent Cleaner 10
IA1.002K	Cold Solvent Cleaner 11
IA1.002L	Cold Solvent Cleaner 12
IA1.002M	Cold Solvent Cleaner 13
IA1.002N	Cold Solvent Cleaner 14
IA1.002O	Cold Solvent Cleaner 15
IA1.002P	Cold Solvent Cleaner 16
IA1.002Q	Cold Solvent Cleaner 17
IA1.002R	Cold Solvent Cleaner 18
IA1.002S	Cold Solvent Cleaner 19
IA1.003	JT Thorp Flashing Furnace
IA1.004	PODS Cooling Tower
IA1.005	0.5 MMBtu/hr Used Oil Heater