Nevada Department of Conservation and Natural Resources • Division of Environmental Protection

Bureau of Air Pollution Control

901 SOUTH STEWART STREET SUITE 4001
CARSON CITY, NEVADA 89701-5249
p: 775-687-9349 • ndep.nv.gov/air

Facility ID No. A2591 *Permit No.* AP4789-4701

CLASS II AIR QUALITY OPERATING PERMIT

Issued to: IRON HORSE NEVADA, LLC (HEREINAFTER REFERRED TO AS PERMITTEE)
Mailing Address: 7100 AIRPORT ROAD, WINNEMUCCA, NV 89445
Physical Address: APPROXIMATELY ONE MILE WEST OF WINNEMUCCA AIRPORT
Driving Directions: TRAVELING WESTBOUND ON I-80, TAKE EXIT 173 TO NV-289/W. WINNEMUCCA BLVD AND TURN LEFT. TURN RIGHT ONTO W. ROSE CREEK RD. AND TRAVEL 1.4 MILES, THEN TURN LEFT ONTO AIRPORT RD. IN LESS THAN A MILE, TURN RIGHT ONTO THE FACILITY ACCESS ROAD. THE FRONT GATE IS LOCATED ON THE RIGHT.
General Facility Location: SECTION 16-17, T 35 N, R 37 E, MDB&M
HA 70 – WINNEMUCCA SEGMENT / HUMBOLDT COUNTY
NORTH 4,529,193 M, EAST 431,108 M, UTM ZONE 11, NAD 83

Emission Unit List:

A. System 1 - Sulfur Transloading System (Revised - Air Case 13169)
S2.001 Sulfur Holding and Transfer

B. System 2 - Soda Ash Mobile Transfer (Revised - Air Case 13169)
S2.002 Soda Ash Transfer from Railcar to Truck

C. System 3 - Quicklime Mobile Transfer (Revised - Air Case 13169)
S2.003 Quicklime Transfer from Railcar to Truck

D. System 4 - Flocculant Mobile Transfer (Revised - Air Case 13169)
S2.004 Flocculant Transfer to Truck

E. System 5 - Steam Generation (Revised - Air Case 13168)
S2.005 Boiler #1 (20 MMBtu)
S2.006 Boiler #2 (20 MMBtu)
S2.007 Boiler #3 (20 MMBtu)

F. System 5A - Alt Op Scenario - Steam Generation (Added - Air Case 13168)
S2.005a Boiler #1 (20 MMBtu)
S2.006a Boiler #2 (20 MMBtu)
S2.007a Boiler #3 (20 MMBtu)

G. System 6 - Emergency Generator (Pwr: 764.4 hp, Model: Not Spec'd, Mfg: Not Spec'd, Date: ≥2009) (Revised - Air Case 13169)
S2.008 Emergency NG-Fired Generator

H. System 7 - Firewater Pump (Added - Air Case 13168)
S2.009 Firewater Pump Engine (136 hp, mfg: Clarke, ≥2010)

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Emission Unit List: (continued)

I. System 8 – Quicklime Silo (Added - Air Case 13168)

S2.010	Quicklime Silo Loading (via sealed transfer from railcar to bucket elevator) - Vent Filter 1
S2.011	Quicklime Silo Loading (via sealed transfer from railcar to bucket elevator) - Vent Filter 2
S2.012	Quicklime Silo Unloading to Truck

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

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Issued to: IRON HORSE NEVADA, LLC – TRANSLOAD FACILITY (AS PERMITTEE)

Section I. General Provisions

A. Prohibited acts; penalty; establishment of violation; request for prosecution (NRS 445B.470) (*State Only Requirement)*

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 subsection 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.
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.

B. Visible emissions: Maximum opacity; determination and monitoring of opacity (NAC 445B.22017) (*Federally Enforceable SIP Requirement)*

1. Except as otherwise provided in this section and NAC 445B.2202, no owner or operator may 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 must 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 must be operated and maintained by the owner or operator specified in the permit for the facility in accordance with NAC 445B.256 to 445B.267, inclusive.

C. Visible emissions: Exceptions for stationary sources (NAC 445B.2202) (*Federally Enforceable SIP Requirement)*

The provisions of NAC 445B.22017 do not apply to:

1. Smoke from the open burning described in NAC 445B.22067;
2. Smoke discharged in the course of training air pollution control inspectors to observe visible emissions, if the facility has written approval of the Commission;
3. Emissions from an incinerator as set forth in NAC 445B.2207; or
4. Emissions of stationary diesel-powered engines during warm-up for not longer than 15 minutes to achieve operating temperatures.

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Section I. General Provisions (continued)

D. Prohibited Conduct: Concealment of Emissions (NAC 445B.225) (*Federally Enforceable SIP Requirement)*
No person may install, construct or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.

E. Prohibited conduct: Operation of source without required equipment; removal or modification of required equipment; modification of required procedure (NAC 445B.227) (*Federally Enforceable SIP Requirement)*
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.

F. Excess Emissions (NAC 445B.232) (*State Only Requirement)*
1. Scheduled maintenance or testing or scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 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. Each owner or operator 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 subsection 1.
3. Each owner or operator 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 subsection 1.
4. Each owner or operator shall notify the Director 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.

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Section I. General Provisions (continued)

F. Excess Emissions (NAC 445B.232) (*State Only Requirement)* (continued)

5. Each owner or operator 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. Each owner or operator 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.

G. Testing and Sampling (NAC 445B.252) (*Federally Enforceable SIP Requirement*)

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 owner 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 method of reference with minor changes in methodology;
   b. Approves the use of an equivalent method;
   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; or
   d. Waives the requirement for tests of performance because the owner or operator 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 owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the performance test. Operations during periods of startup, shutdown and malfunction must not constitute representative conditions of a performance test unless otherwise specified in the applicable standard.
4. The owner or operator 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.

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Section I. General Provisions (continued)

G. Testing and Sampling (NAC 445B.252) (*Federally Enforceable SIP Requirement*) (continued)

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 owner 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 subsection 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.

H. Permit Revision (NAC 445B.287(1)(b)) (*Federally Enforceable SIP Requirement)*

If a stationary source is a Class II source, a revision of the operating permit or the permit to construct is required pursuant to the requirements of NAC 445B.3465 before the stationary source may be modified.

I. Violations: Acts constituting; notice (NAC 445B.275) (*Federally Enforceable SIP Requirement)*

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 any owner or operator 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.

J. Operating permits: Imposition of more stringent standards for emissions (NAC 445B.305) (*Federally Enforceable SIP Requirement)*

1. 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.

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Issued to: IRON HORSE NEVADA, LLC – TRANSLOAD FACILITY (AS PERMITTEE)

Section I. General Provisions (continued)

K. Contents of operating permits: Exception for operating permits to construct; required conditions (NAC 445B.315)
(*Federally Enforceable SIP Requirement)*

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 holder of the operating permit 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 holder of the operating permit 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.
   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 holder of the operating permit shall provide the Director, in writing and within a reasonable time, with any information that the Director requests 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 holder of the operating permit shall pay fees to the Director in accordance with the provisions set forth in NAC 445B.327 and 445B.331.
   j. The holder of the operating permit shall allow the Director or any authorized representative, upon presentation of credentials, to:
      (1) Enter upon the premises of the holder of the operating permit 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;
      (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 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.

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Section I. General Provisions (continued)

L. Operating permits: Revocation and reissuance (NAC 445B.3265) (*State Only Requirement)*

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.

M. Required contents of permit (NAC 445B.346) (*Federally Enforceable SIP Requirement)*

In addition to the conditions set forth in NAC 445B.315, Class II operating permits must contain, as applicable:

1. Emission limitations and standards, including those operational requirements and limitations that ensure compliance with the conditions of the operating permit.
2. All requirements for monitoring, testing and reporting that apply to the stationary source.
3. A requirement that the owner or operator of the stationary source promptly report any deviations from any requirements of the operating permit.
4. The terms and conditions for any reasonably anticipated alternative operating scenarios identified by the owner or operator of the stationary source in his or her application and approved by the Director. Such terms and conditions must require the owner or operator to keep a contemporaneous log of changes from one alternative operating scenario to another.
5. A schedule of compliance for stationary sources that are not in compliance with any applicable requirement or NAC 445B.001 to 445B.390, inclusive:
   a. Semiannual progress reports and a schedule of dates for achieving milestones;
   b. Prior notice of and explanations for missed deadlines; and
   c. Any preventive or corrective measures taken.

******End of General Provisions******

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Issued to: IRON HORSE NEVADA, LLC – TRANSLOAD FACILITY (AS PERMITTEE)

Section II. General Monitoring, Recordkeeping, and Reporting Conditions

A. Records Retention (NAC 445B.315(3)(b)) (*Federally Enforceable SIP Requirement)*
The holder of the operating permit 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.

B. Deviations (NAC 445B.346(3)) (*Federally Enforceable SIP Requirement*)
Under the authority of NAC 445B.346(3), and in addition to the conditions set forth in NAC 445B.315, the owner or operator of the stationary source shall promptly report to the Director any deviations from the requirements of the operating permit. The report to the Director shall include the probable cause of all deviations and any action taken to correct the deviations. For the 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 as reproduced in **Section I.F.**
E-mail notifications to: aircompliance@ndep.nv.gov

C. Yearly Reports (NAC 445B.315(3)(h), NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
Under the authority of NAC 445B.315(3)(h) and NAC 445B.346(2) the Permittee will submit yearly reports including, but not limited to, throughput, production, fuel consumption, hours of operation, emissions and supporting documentation to support the calculation of annual emissions These reports and supporting documentation (if applicable) will be submitted via the State and Local Emissions Inventory System (SLEIS) maintained by the Bureau of Air Quality Planning for all emission units/systems specified. The completed report must be submitted to the Bureau of Air Quality Planning no later than March 1 annually for the preceding calendar year.

******End of General Monitoring, Recordkeeping, and Reporting Conditions******

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Issued to: IRON HORSE NEVADA, LLC – TRANSLOAD FACILITY (AS PERMITTEE)

Section III. General Construction Conditions

A. Notification (NAC 445B.250; NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*

Under the authority of NAC 445B.250 and NAC 445B.346; the Director shall be notified in writing of the following for **S2.001, S2.002, S2.003, S2.004, S2.005, S2.005a, S2.006, S2.006a, S2.007, S2.007a, S2.008, S2.009, S2.010, S2.011, and S2.012**:

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.

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

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Issued to: IRON HORSE NEVADA, LLC – TRANSLOAD FACILITY (AS PERMITTEE)

Section IV. Specific Construction Requirements

A. Initial Opacity Compliance Demonstration and Initial Performance Tests (NAC 445B.22017, NAC 445B.252, NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

1. Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.346, the Permittee, upon issuance of this operating permit, shall conduct 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 IV-1 and Table IV-2 below:

Table IV-1: Initial Opacity Compliance Demonstration

Updated November 2026

System	Emission Unit(s)	Pollutant To Be Tested	Testing Methods/Procedures
System 1 - Sulfur Transloading System	**S2.001**	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.
System 2 - Soda Ash Mobile Transfer	**S2.002**		
System 3 - Quicklime Mobile Transfer	**S2.003**		
System 4 - Flocculant Mobile Transfer	**S2.004**		
System 5 - Steam Generation	**S2.005, S2.006, S2.007**		
System 5A - Steam Generation	**S2.005a, S2.006a, S2.007a**		
System 6 - Emergency Generator	**S2.008**		
System 7 - Firewater Pump	**S2.009**		

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Section IV. Specific Construction Requirements (continued)

A. Initial Opacity Compliance Demonstration and Initial Performance Tests (NAC 445B.22017, NAC 445B.252, NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*) (continued)

1. Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.346, the Permittee, upon issuance of this operating permit, shall conduct 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 IV-1 and Table IV-2 below:

Table IV-1: Initial Opacity Compliance Demonstration (continued)			
Updated November 2026			
System 8: Quicklime Silo	**S2.010, S2.011, S2.012**		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.

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Table IV-2: Initial Performance Tests			
System	**Emission Unit(s)**	**Pollutants To Be Tested**	**Testing Methods/Procedures**
System 1 - Sulfur Transloading System	**S2.001**	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 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 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 test. All particulate captured in the Method 5 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.
		H2S	Method 15 in Appendix A of 40 CFR Part 60 shall be used to determine the hydrogen sulfide concentration. Each test will be run for a minimum of one hour.
System 5 - Steam Generation	**S2.005, S2.006, S2.007**	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.
		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.

2. 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 I.G.** 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))
3. Testing shall be conducted on the exhaust stack (post controls).

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Section IV. Specific Construction Requirements (continued)

A. Initial Opacity Compliance Demonstration and Initial Performance Tests (NAC 445B.22017, NAC 445B.252, NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*) (continued)

4. Initial opacity compliance demonstrations and initial performance tests, as specified in Table IV-1 and Table IV-2 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))
5. 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))
6. Within 60 days after completing the initial opacity compliance demonstrations and initial performance tests contained in Table IV-1 and Table IV-2 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))
7. 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 the initial opacity compliance demonstrations and initial performance tests were 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 Specific Construction Requirements******

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Section V. Specific Operating Conditions

A. Emission Unit S2.001

System 1 – Sulfur Transloading System (Revised - Air Case 13169)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.001	Sulfur Holding and Transfer	4,528,586	430,444

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. Emissions from **S2.001** shall be controlled by a **vent gas scrubber.**
   b. Descriptive Stack Parameters
      Stack Height: 34.5 feet
      Stack Diameter: 1.3 feet
      Stack Temperature: 102 °F
      Exhaust Flow: 2,430.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. The maximum allowable throughput rate for **S2.001** shall not exceed **661.0** tons of **transferred sulfur** per any one-hour period averaged over a daily basis, nor more than **363,825.0** tons per year.
   b. The sulfur tank shall have a capacity of no more than **5,512** tons of **sulfur**.
   c. The temperature of the sulfur in the holding tank shall not exceed **310°F**
   d. Hours
      (1) **S2.001** may operate a total of **24** hours per day**.**

3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement)*
   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 **0.22** pounds per hour, nor more than **0.97** tons per year.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.22** pounds per hour, nor more than **0.97** tons per year.
   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 **0.22** pounds per hour, nor more than **0.97** tons per year.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.89** pounds per hour, nor more than **2.05** tons per year.
   e. The discharge of **H_2S** (hydrogen sulfide) to the atmosphere shall not exceed **0.24** pounds per hour, nor more than **0.55** tons per year.
   f. The opacity from **S2.001** shall not equal or exceed **20** percent.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
   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 **S2.001** on a daily basis.
   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. Monitor and record the temperature of the sulfur in the holding tank for **S2.001** on a daily basis.
   d. Monitor and record the total yearly throughput rate in tons per year. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.
   e. Maintain documentation on-site showing that the sulfur tank capacity does not exceed the value specified in **A.2.b** of this section.

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Section V. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement) (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.
   f. Monitor and record the hours of operation for **S2.001** on a daily basis.
   g. Conduct and record an observation of visible emissions (excluding water vapor) on the vent gas scrubber controlling **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 and exceed the applicable opacity standard, the Permittee shall take immediate corrective action. The Permittee shall maintain in a contemporaneous log with the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the monthly observation of visible emissions, and any corrective actions taken.
   h. Inspect the vent gas scrubber in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the water spray nozzles), and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)*
The Permittee, upon issuance of this operating permit, shall conduct 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/or performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section I.G. Testing and Sampling (NAC 445B.252) of this operating permit. 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 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.
   e. Method 15 in Appendix A of 40 CFR Part 60 shall be used to determine the hydrogen sulfides concentration. Each test will be run for a minimum of one hour.
   f. 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.

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Section V. Specific Operating Conditions (continued)

B. Emission Unit S2.002

System 2 - Soda Ash Mobile Transfer (Revised - Air Case 13169)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.002	Soda Ash Transfer from Railcar to Truck	4,528,695	430,586

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. Emissions from **S2.002** shall be controlled by a **vent filter.**
   b. Descriptive Stack Parameters
      Stack Height: 10.0 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: ambient
      Exhaust Flow: 600 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. The maximum allowable throughput rate for **S2.002** shall not exceed **100** tons of **soda ash** per any one-hour period averaged over a daily basis, nor more than **270,000** tons per year.
   b. Hours
      (1) **S2.002** may operate a total of **24** hours per day**.**

3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement)*
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.002** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.099** pounds per hour, nor more than **0.13** tons per year.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.034** pounds per hour, nor more than **0.046** tons per year.
   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 **0.0051** pounds per hour, nor more than **0.0070** tons per year.
   d. The opacity from **S2.002** shall not equal or exceed **20** percent.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
   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 **S2.002** on a daily basis.
   b. Monitor and record the hours of operation for **S2.002** on a daily basis.
   c. 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.
   d. Monitor and record the total yearly throughput rate in tons per year. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the vent filter controlling **S2.002** 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 take immediate corrective action. The Permittee shall maintain in a contemporaneous log with the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the monthly observation of visible emissions, and any corrective actions taken.
   f. Inspect the vent filter installed on **S2.002** 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.

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Section V. Specific Operating Conditions (continued)

C. Emission Unit S2.003

System 3 - Quicklime Mobile Transfer (Revised - Air Case 13169)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.003	Quicklime Transfer from Railcar to Truck	4,528,695	430,586

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. Emissions from **S2.003** shall be controlled by a **vent filter.**
   b. Descriptive Stack Parameters
      Stack Height: 10.0 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: ambient
      Exhaust Flow: 600 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. The maximum allowable throughput rate for **S2.003** shall not exceed **90** tons of **quicklime** per any one-hour period averaged over a daily basis, nor more than **180,000** tons per year.
   b. Hours
      (1) **S2.003** may operate a total of **24** hours per day**.**

3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement)*
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.003** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.089** pounds per hour, nor more than **0.089** tons per year.
   b. The discharge of **PM_{10}** (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 **0.031** tons per year.
   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 **0.0046** tons per year.
   d. The opacity from **S2.003** shall not equal or exceed **20** percent.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
   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 **S2.003** on a daily basis.
   b. Monitor and record the hours of operation for **S2.003** on a daily basis.
   c. 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.
   d. Monitor and record the total yearly throughput rate in tons per year. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the vent filter controlling **S2.003** 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 take immediate corrective action. The Permittee shall maintain in a contemporaneous log with the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the monthly observation of visible emissions, and any corrective actions taken.
   f. Inspect the vent filter installed on **S2.003** 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.

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Section V. Specific Operating Conditions (continued)

D. Emission Unit S2.004

System 4 - Flocculant Mobile Transfer (Revised - Air Case 13169)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.004	Flocculant Transfer to Truck	4,528,695	430,586

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. Emissions from **S2.004** shall be controlled by a **vent filter.**
   b. Descriptive Stack Parameters
      Stack Height: 10.0 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: ambient
      Exhaust Flow: 600 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. The maximum allowable throughput rate for **S2.004** shall not exceed **50** tons of **flocculant** per any one-hour period averaged over a daily basis, nor more than **5,000** tons per year.
   b. Hours
      (1) **S2.004** may operate a total of **24** hours per day**.**

3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement)*
   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 **0.050** pounds per hour, nor more than **0.0025** tons per year.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.017** pounds per hour, nor more than **0.00085** tons per year.
   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 **0.0026** pounds per hour, nor more than **0.00013** tons per year.
   d. The opacity from **S2.004** shall not equal or exceed **20** percent.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
   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 **S2.004** on a daily basis.
   b. Monitor and record the hours of operation for **S2.004** on a daily basis.
   c. 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.
   d. Monitor and record the total yearly throughput rate in tons per year. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the vent filter controlling **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 and exceed the applicable opacity standard, the Permittee shall take immediate corrective action. The Permittee shall maintain in a contemporaneous log with the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the monthly observation of visible emissions, and any corrective actions taken.
   f. Inspect the vent filter installed on **S2.004** 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.

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Section V. Specific Operating Conditions (continued)

E. Emission Units S2.005, S2.006, and S2.007

System 5 - Steam Generation (Revised - Air Case 13168)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.005	Boiler #1 (20 MMBtu)	4,528,530	430,456
S2.006	Boiler #2 (20 MMBtu)	4,528,524	430,456
S2.007	Boiler #3 (20 MMBtu)	4,528,518	430,456

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. **S2.005, S2.006, and S2.007, each,** have no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 30.0 feet
      Stack Diameter: 2.0 feet
      Stack Temperature: 300 °F
      Exhaust Flow: 2,772 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. **S2.005, S2.006, and S2.007** may consume only **natural gas.**
   b. The maximum allowable fuel consumption rate for **S2.005, S2.006, and S2.007, each,** shall not exceed **19,539.0 standard cubic feet (scf) natural gas** per any one-hour period.
   c. Hours
      (1) **S2.005, S2.006, and S2.007, each,** may operate a total of **24** hours per day**.**

3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement)*
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.005, S2.006, and S2.007, each,** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.15** pounds per hour, nor more than **0.65** tons per year.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.15** pounds per hour, nor more than **0.65** tons per year.
   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 **0.15** pounds per hour, nor more than **0.65** tons per year.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.012** pounds per hour, nor more than **0.051** tons per year.
   e. The discharge of **NO_X** (oxides of nitrogen) to the atmosphere shall not exceed **1.95** pounds per hour, nor more than **8.56** tons per year.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.64** pounds per hour, nor more than **7.19** tons per year.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.11** pounds per hour, nor more than **0.47** tons per year.
   h. The opacity from **S2.005, S2.006, and S2.007, each,** shall not equal or exceed **20** percent.

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Section V. Specific Operating Conditions (continued)

E. Emission Units S2.005, S2.006, and S2.007 (continued)

4. Monitoring and Recordkeeping (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
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 hours of operation for **S2.005, S2.006, and S2.007, each,** on a daily basis.
   b. Monitor and record the consumption rate of **natural gas** on a daily basis for **S2.005, S2.006, and S2.007, each,** (in **scf**) by multiplying the maximum hourly fuel consumption rate as stated in **E.2.b** of this section and the total daily hours of operation.

5. Performance and Compliance Testing (NAC 445B.346(2)), (NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)*
The Permittee, upon issuance of this operating permit, shall conduct renewal performance testing on **S2.005, S2.006, and S2.007, each,** 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/or performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section I.G. Testing and Sampling (NAC 445B.252) of this operating permit. 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 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.
   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. 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.

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Section V. Specific Operating Conditions (continued)

E. Emission Units S2.005, S2.006, and S2.007 (continued)

6. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)*
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
   a. Reporting and Recordkeeping Requirements (40 CFR Part 60.48c)
      (1) The Permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR 60.7. This notification shall include: (40 CFR Part 60.48c(a)
         (a) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility. (40 CFR 60.48c(a)(1))
         (b) The annual capacity factor at which the permittee anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired. (40 CFR 60.48c(a)(3))
      (2) Except as provided under 40 CFR 60.48c(g)(2) and (g)(3), the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day. (40 CFR Part 60.48c(g))
         (a) As an alternative to meeting the requirements of 40 CFR Part 60.48c (g)(1), the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO_2 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))
         (b) As an alternative to meeting the requirements of 40 CFR 60.48c (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR 60.42c to use fuel certification to demonstrate compliance with the SO_2 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 Part 60.48c(g)(3))
      (3) All records required under 40 CFR Part 60.48c shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. (40 CFR Part 60.48c(i))

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Section V. Specific Operating Conditions (continued)

F. Emission Units S2.005a, S2.006a, and S2.007a

System 5A - Alt Op Scenario - Steam Generation (Added - Air Case 13168)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.005a	Boiler #1 (20 MMBtu)	4,528,530	430,456
S2.006a	Boiler #2 (20 MMBtu)	4,528,524	430,456
S2.007a	Boiler #3 (20 MMBtu)	4,528,518	430,456

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. **S2.005a, S2.006a, and S2.007a, each,** have no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 30.0 feet
      Stack Diameter: 2.0 feet
      Stack Temperature: 300 °F
      Exhaust Flow: 2,772 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. **S2.005a, S2.006a, and S2.007a, each,** may consume only **fuel oil #2 (diesel).**
   b. The maximum allowable fuel consumption rate for **S2.005a, S2.006a, and S2.007a, each,** shall not exceed **142.4 gallons** per any one-hour period, nor more than **35,600.0 gallons** per year. The sulfur content shall not exceed **0.0015 percent.**
   c. Hours
      (1) **S2.005a, S2.006a, and S2.007a, each,** may operate a total of **24** hours per day**.**
      (2) **S2.005a, S2.006a, and S2.007a, each,** may operate a total of **250** hours per year**.**

3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B.22017) (*Federally Enforceable SIP Requirement)*
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.005a, S2.006a, and S2.007a, each,** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.47** pounds per hour, nor more than **0.059** tons per year.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.47** pounds per hour, nor more than **0.059** tons per year.
   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 **0.47** pounds per hour, nor more than **0.059** tons per year.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.030** pounds per hour, nor more than **0.0038** tons per year.
   e. The discharge of **NOx** (oxides of nitrogen) to the atmosphere shall not exceed **2.85** pounds per hour, nor more than **0.36** tons per year.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.71** pounds per hour, nor more than **0.089** tons per year.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.036** pounds per hour, nor more than **0.0045** tons per year.
   h. The opacity from **S2.005a, S2.006a, and S2.007a, each,** shall not equal or exceed **20** percent.

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Section V. Specific Operating Conditions (continued)

F. Emission Units S2.005a, S2.006a, and S2.007a (continued)

4. Monitoring and Recordkeeping (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
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 hours of operation for **S2.005a, S2.006a, and S2.007a, each,** on a daily basis**.**
   b Monitor and record the consumption rate of **fuel oil #2 (diesel)** on a daily basis for **S2.005a, S2.006a, and S2.007a, each,** (in **gallons**) by multiplying the maximum hourly fuel consumption rate as stated in **F.2.b** of this section and the total daily hours of operation.
   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 as the sum of the monthly hours of operation for the year.
   d. Keep on site, and make available upon request, documentation demonstrating that the sulfur content of the **fuel oil #2 (diesel)** consumed in **S2.005a, S2.006a, and S2.007a, each,** shall not exceed the limit set forth in **F.2.b** of this section.

5. Performance and Compliance Testing (NAC 445B.346(2)), (NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)*
The Permittee, upon issuance of this operating permit, shall conduct initial opacity compliance demonstrations and/or initial performance testing on **S2.005a, S2.006a, and S2.007a, each,** within 180 days after achieving the maximum production rate at which the affected facility will be operated, in accordance with the following:
   a. All opacity compliance demonstrations and/or performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section I.G. Testing and Sampling (NAC 445B.252) of this operating permit. 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 PM2.5 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 PM2.5 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.

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Section V. Specific Operating Conditions (continued)

F. Emission Units S2.005a, S2.006a, and S2.007a (continued)

6. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)*
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
   a. Fuel Oil Sulfur Limit (40 CFR 60.42c)
      (1) On and after the date the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever occurs first, the Permittee shall not combust No. 2 fuel oil containing greater than 0.5 weight percent sulfur in the affected facility. This limit applies at all times, including periods of startup, shutdown, and malfunction. (40 CFR 60.42c(d) and (i))
   b. Reporting and Recordkeeping Requirements (40 CFR 60.48c)
      (1) The Permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR 60.7. This notification shall include:
         (a) The design heat input capacity of the affected facility and identification of No. 2 fuel oil as the fuel to be combusted in the affected facility. (40 CFR 60.48c(a)(1))
         (b) The anticipated annual capacity factor for No. 2 fuel oil. (40 CFR 60.48c(a)(3))
      (2) The Permittee shall demonstrate compliance with the fuel oil sulfur limit in 40 CFR 60.42c(d) using fuel supplier certifications pursuant to 40 CFR 60.42c(h)(1). The certifications for No. 2 fuel oil shall include:
         (a) The name of the oil supplier;
         (b) A statement from the oil supplier that the oil meets the specifications under the definition of distillate oil in 40 CFR 60.41c; and
         (c) The sulfur content or maximum sulfur content of the oil. (40 CFR 60.48c(f)(1))
      (3) When compliance is demonstrated using fuel supplier certifications, the performance test for the sulfur dioxide standard shall consist of the fuel supplier certification described in paragraph (2). The Permittee shall submit the certification constituting the performance test to the Administrator. (40 CFR 60.44c(h) and 60.48c(b))
      (4) The Permittee shall record and maintain records of the amount of No. 2 fuel oil combusted in the affected facility during each calendar month. This monthly recordkeeping alternative to the daily recordkeeping requirement in 40 CFR 60.48c(g)(1) is elected pursuant to 40 CFR 60.48c(g)(2), based on the use of fuel supplier certifications under 40 CFR 60.48c(f)(1) to demonstrate compliance with the sulfur dioxide standard.
      (5) The Permittee shall maintain records and submit reports demonstrating compliance with the applicable fuel oil sulfur limit. Each report shall include:
         (a) The calendar dates covered by the reporting period;
         (b) The fuel supplier certifications required by paragraph (2), covering all No. 2 fuel oil combusted during the reporting period; and
         (c) A certified statement signed by the owner or operator that the submitted fuel supplier certification records represent all fuel combusted during the reporting period. The Permittee shall also include any additional information applicable to the affected facility under 40 CFR 60.48c(e). (40 CFR 60.48c(d), (e)(1), and (e)(11))
      (6) All records required under 40 CFR 60.48c shall be maintained for at least two years following the date of the record. (40 CFR 60.48c(i))
      (7) The reporting period for reports required under Subpart Dc shall be 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))

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Section V. Specific Operating Conditions (continued)

G. Emission Unit S2.008

System 6 - Emergency Generator (Pwr: 764.4 hp, Model: Not Spec'd, Mfg: Not Spec'd, Date: ≥2009) (Revised - Air Case 13169)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.008	Emergency NG-Fired Generator	4,528,539	430,459

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. **S2.008** has no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 8.10 feet
      Stack Diameter: 0.42 feet
      Stack Temperature: 1,244 °F

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. **S2.008** may consume only **natural gas**, except as permitted by **G.5.c.(4)** of this section.
   b. The maximum allowable fuel consumption rate for **S2.008** shall not exceed **5,888 standard cubic feet (scf)** per any one-hour period.
   c. Hours
      (1) **S2.008** may operate a total of **24** hours per day**.**
      (2) **S2.008** may operate a maximum 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.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement)*
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.008** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.12** pounds per hour, nor more than **0.0058** tons per year.
   b. The discharge of **PM_{10}** (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 **0.0058** tons per year.
   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 **0.12** pounds per hour, nor more than **0.0058** tons per year.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.0035** pounds per hour, nor more than **0.00018** tons per year.
   e. The discharge of **NOx** (oxides of nitrogen) to the atmosphere shall not exceed **3.37** pounds per hour, nor more than **0.17** tons per year.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **6.74** pounds per hour, nor more than **0.34** tons per year.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **1.69** pounds per hour, nor more than **0.084** tons per year.
   h. The opacity from **S2.008** shall not equal or exceed **20** percent.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
   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 total daily hours of operation for **S2.008** for each 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.
   b. Monitor and record the consumption rate of **natural gas** on a daily basis for **S2.008** (in **scf**) by multiplying the maximum hourly fuel consumption rate as state in **G.2.b** of this section and the total daily hours of operation.

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Section V. Specific Operating Conditions (continued)

G. Emission Unit S2.008 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement) (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.
   c. Monitor and record the total yearly hours of operation of **S2.008** per year. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for all previous months of that year.
   d. The Permittee, upon issuance of this operating permit, shall 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 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(e), 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(e))
      (1) For a 2009 model year and later emergency engine with a rate power of greater than or equal to 130 hp: (40 CFR 60.4233(e), Table 1)
         (a) The discharge of NO_X to the atmosphere shall not exceed 2.0 grams/hp-hr (**3.37** pounds per hour)
         (b) The discharge of CO to the atmosphere shall not exceed 4.0 grams/hp-hr (**6.74** pounds per hour).
         (c) The discharge of VOC to the atmosphere shall not exceed 1.0 gram/hp-hr (**1.69** pounds per hour).
   b. Monitoring, Operation and Maintenance Requirements (40 CFR 60.4237)
   The Permittee must install a non-resettable hour meter if the SI ICE is greater than 500 hp and does not meet the emission standards applicable to non-emergency engines. (40 CFR 60.4237(a))

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Section V. Specific Operating Conditions (continued)

G. Emission Unit S2.008 (continued)

5. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)* (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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 **G.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 **G.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))

(b) The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs **G.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 **G.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))

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Section V. Specific Operating Conditions (continued)

G. Emission Unit S2.008 (continued)

5. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)* (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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 **G.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 **G.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)

(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 **G.5.c.(2)** of this section. Except as provided in paragraph **G.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))

(3) The Permittee must demonstrate compliance with the emission standards specified in **G.5.a** by 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 40 CFR 60.4243(a). (40 CFR 60.4243(b)(1))

(4) 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))

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))

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) The Permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter if the engine does not meet the standards applicable to non-emergency engines. (40 CFR 60.4245(b))

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Section V. Specific Operating Conditions (continued)

G. Emission Unit S2.008 (continued)

5. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)* (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

   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 spark 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))

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Section V. Specific Operating Conditions (continued)

H. Emission Unit S2.009

System 7 – Firewater Pump (Added - Air Case 13168)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.009	Firewater Pump Engine (136 hp, mfg: Clarke, ≥2010)	4,528,483	430,455

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. **S2.009** has no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 6.0 feet
      Stack Diameter: 0.33 feet
      Stack Temperature: 883 °F

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. **S2.009** may consume only **ultra-low sulfur diesel**.
   b. The maximum allowable fuel consumption rate for **S2.009** shall not exceed **9.80 gallons** per any one-hour period, nor more than **980 gallons** per year of non-emergency use.
   c. Hours
      (1) **S2.009** may operate a total of **24** hours per day**.**
      (2) **S2.009** may operate a maximum 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.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement)*
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.009** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.067** pounds per hour, nor more than **0.0034** tons per year.
   b. The discharge of **PM_{10}** (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 **0.0034** tons per year.
   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 **0.067** pounds per hour, nor more than **0.0034** tons per year.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **.0021** pounds per hour, nor more than **0.00010** tons per year.
   e. The discharge of **NO_X** (oxides of nitrogen) to the atmosphere shall not exceed **0.89** pounds per hour, nor more than **0.045** tons per year.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.12** pounds per hour, nor more than **0.056** tons per year.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.34** pounds per hour, nor more than **0.017** tons per year.
   h. The opacity from **S2.009** shall not equal or exceed **20** percent.

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Section V. Specific Operating Conditions (continued)

H. Emission Unit S2.009 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
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 total daily hours of operation for **S2.009** for each 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.
   b. Monitor and record the consumption rate of **ultra-low sulfur diesel** on a daily basis for **S2.009** (in **gallons**) by multiplying the maximum hourly fuel consumption rate as stated in **H.2.b.** of this section and the total daily hours of operation.
   c. Monitor and record the total yearly throughput rate in gallons per year. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.
   d. Monitor and record the total yearly hours of operation of **S2.009** per year. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for all previous months of that year.
   e. Keep on site, and make available upon request, documentation demonstrating the purchase and use of **ultra-low sulfur diesel** consumed in **S2.009**.
   f. The Permittee, upon issuance of this operating permit, shall 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 60.4202, 40 CFR 60.4205)
   The Permittee must comply with the emission standards in Table 4 of 40 CFR Part 60 Subpart IIII, for all pollutants, for the same model year and National Fire Protection Association (NFPA) maximum engine power. (40 CFR 60.4202(d), 40 CFR 60.4205(c))
      (1) For a **2010** model year and later stationary fire pump engine with a maximum engine power of **75** ≤kW< **130** (**100** ≤hp< **175**) and less than 30 liters per cylinder: (40 CFR 60.4202(d), 40 CFR 4205(c), Table 4)
         (a) The discharge of PM to the atmosphere shall not exceed **0.3** gram/kW-hr (**0.22** gram/hp-hr).
         (b) The discharge of non-methane hydrocarbon (NMHC) + NO_X to the atmosphere shall not exceed **4** grams/kW-hr (**2.98** grams/hp-hr).
         (c) The discharge of carbon monoxide (CO) to the atmosphere shall not exceed **5** grams/kW-hr (**3.73** gram/hp-hr).
   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.
   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))

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Section V. Specific Operating Conditions (continued)

H. Emission Unit S2.009 (continued)

5. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)* (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
   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, except as permitted in **H.5.d.(5**) of this section. (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 **H.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 **H.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 **H.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 **H.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 **H.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 **H.5.d.(4)(b)** of this section. Except as provided in paragraph **H.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))

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Section V. Specific Operating Conditions (continued)

H. Emission Unit S2.009 (continued)

5. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement)* (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
   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 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))

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Section V. Specific Operating Conditions (continued)

I. Emission Units S2.010 through S2.012

System 8 – Quicklime Silo (Added - Air Case 13168)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.010	Quicklime Silo Loading (via sealed transfer from railcar to bucket elevator) - Vent Filter 1	4,528,586	430,596
S2.011	Quicklime Silo Loading (via sealed transfer from railcar to bucket elevator) - Vent Filter 2	4,528,586	430,598
S2.012	Quicklime Silo Unloading to Truck	4,528,586	430,596

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. Emissions from **S2.010 through S2.012, each,** shall be controlled by a **vent filters.**
   b. Descriptive Stack Parameters for **S2.010 and S2.011**
      Stack Height: 110 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: ambient
      Exhaust Flow: 525 dry standard cubic feet per minute (dscfm)
   c. Descriptive Stack Parameters for **S2.012**
      Stack Height: 18 feet
      Stack Diameter: 0.5 feet
      Stack Temperature: ambient
      Exhaust Flow: 60 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement)*
   a. The maximum allowable throughput rate for **S2.010 through S2.012, each,** shall not exceed **90.0** tons of **quicklime** per any one-hour period, nor more than **180,000.0** tons per year.
   b. Hours
      (1) **S2.010 through S2.012, each,** may operate a total of **24** hours per day**.**

3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement)*
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.010 and S2.011, each,** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.089** pounds per hour, nor more than **0.089** tons per year.
      (2) The discharge of **PM_{10}** (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 **0.031** tons per year.
      (3) 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 **0.0046** tons per year.
      (4) The opacity from **S2.010 and S2.011, each,** shall not equal or exceed **20** percent.
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.012** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.22** pounds per hour, nor more than **0.22** tons per year.
      (2) The discharge of **PM_{10}** (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 **0.13** tons per year.
      (3) The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.019** pounds per hour, nor more than **0.019** tons per year.
      (4) The opacity from **S2.012** shall not equal or exceed **20** percent.

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Section V. Specific Operating Conditions (continued)

I. Emission Units S2.010 through S2.012 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
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 **S2.010 through S2.012, each,** on a daily basis.
   b. Monitor and record the hours of operation for **S2.010 through S2.012, each,** on a daily basis.
   c. Record the corresponding average hourly throughput rate in tons per hour for **S2.010 through S2.012, each**. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   d. Monitor and record the total yearly throughput rate in tons per year. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the bin vent controlling **S2.010 through S2.012, each,** 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 take immediate corrective action. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the monthly observation of visible emissions, and any corrective actions taken.
   f. Inspect the bin vent installed on **S2.010 through S2.012, each,** 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.

******End of Specific Operating Conditions******

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Section VI. Emission Caps

A. Not Applicable

******End of Emission Caps******

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Issued to: IRON HORSE NEVADA, LLC – TRANSLOAD FACILITY (AS PERMITTEE)

Section VII. Surface Area Disturbance Conditions

The surface area disturbance for **Transload Facility** is **167.9** acres.

A. Fugitive Dust (NAC 445B.22037) (*Federally Enforceable SIP Requirement)*

1. No person may 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 subsection 4, no person may 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 this subsection, "best practical methods" includes, but is not limited to, paving, chemical stabilization, watering, phased construction and revegetation.
3. Except as otherwise provided in subsection 4, no person may disturb or cover 5 acres or more of land or its topsoil until he 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 subsections 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******

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Section VIII. Schedules of Compliance

A. Not Applicable

******End of Schedule of Compliance ******

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Section IX. Amendments

December 2026 (Air Cases 13168 and 13169)

- Revised UTMs – Systems 1, 2, 3, 4, 5, 6, and various IA's
- Revised Stack Parameters - System 5
- Revised Fuel Type – System 5
- Systems Added – Systems 5A, 7, and 8
- IA's added

This permit:

1. **Is non-transferable. (NAC 445B.287.3) (*Federally Enforceable SIP Requirement)***
2. **Will be posted conspicuously at or near the stationary source. (NAC 445B.318.5) (*Federally Enforceable SIP Requirement)***
3. **Will expire and be subject to renewal five (5) years from: April 22, 2026 . (NAC 445B.315) (*Federally Enforceable SIP Requirement)***
4. **A completed application for renewal of an operating permit must be submitted to the Director on the form provided by him with the appropriate fee at least 70 calendar days before the expiration date of this operating permit. (NAC 445B.3473.2) (*Federally Enforceable SIP Requirement)***
5. **Any person aggrieved by a final decision of the Department may, not later than 10 days after notice of the action of the Department, appeal the decision by filing a request for a hearing before the Commission on a form 3* with the State Environmental Commission, 901 South Stewart Street, Suite 4001, Carson City, Nevada 89701-5249. *(See adopting agency for form.) (NAC 445B.890) *(State Only Requirement)***

THIS PERMIT EXPIRES ON: **April 22, 2031**

Signature: _____

Issued by: Tanya Soleta, P.E.
Supervisor, Permitting Branch
Bureau of Air Pollution Control

Phone: (775) 687- 9540 **Date**: **Date**

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Class II Insignificant Activities List

Appended to Permit #AP4789–4701

Emission Unit #	Emission Unit Description
IA1.001	Sulfur Truck Loading
IA1.002	Sulfur Railcar Steaming
IA1.003	Truck Shop Propane Heaters
IA1.004	Utility Building Propane Heaters
IA1.005	Diesel Transfer from Railcar to Truck
IA1.006	Hydrochloric Acid Transfer from Railcar to Truck
IA1.007	Sulfuric Acid Transfers - Truck and Railcar
IA1.008	Diesel Storage Tank - 12,000 gallons
IA1.009	Fuel Oil#2 Storage Tank