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
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Facility ID No. A0367 *Permit No.* AP3274-1329.04

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

Issued to: GRAYMONT WESTERN US INC. – PILOT PEAK PLANT (HEREINAFTER REFERRED TO AS PERMITTEE)
Mailing Address: 3950 SOUTH 700 EAST, SUITE 301, SALT LAKE CITY, UTAH 84107
Driving Directions: 12 MILES NORTHWEST OF WENDOVER, NEVADA. TAKE I-80 WEST FROM WENDOVER FOR 11 MILES; TAKE EXIT 398 AND TURN LEFT ONTO PILOT RD; PROCEED FOR 3.5 MILES TO THE PILOT PEAK PLANT
General Facility Location:
SECTIONS 10, 12 – 16, 21 – 28, AND 34 – 36, T 34 N, R 68 E, MDB&M
SECTIONS 30 AND 31, T 34 N, R 69 E, MDB&M
HA 191 AND 187 – PILOT CREEK VALLEY AND GOSHUTE VALLEY / ELKO COUNTY
NORTH 4,522,759 M, EAST 731,468 M, UTM ZONE 11, NAD 83

Emission Unit List:

A. System 01 – Limestone Truck Dump

PF1.001	Limestone Truck Dump transfer to Primary Crusher Hopper
PF1.001.1	Conveyor C-2 Transfer to Crusher R-1

B. System 01A – Limestone Truck Dump – Alternative Operating Scenario

PF1.001a	Limestone Truck Dump transfer to Primary Crusher Hopper

C. System 02 – Primary Crushing and Screening Circuit (D-1)

S2.001	Primary Crusher R-1 and Associated Transfers (IN from Primary Crusher Hopper; OUT to Conveyor C-1 (S2.002))
S2.004	Primary Screen S-1 and Associated Transfers (IN from Conveyor C-1 (S2.006); OUT to Conveyors C-2 (S2.005), C-3 (S2.009), C-7 (S2.008), and C-305 (S2.010))
S2.007	Conveyor C-306 to Conveyor C-3
S2.010.1	Conveyor C-7 Transfer to Conveyor C-4
S2.010.2	Hopper/Feeder F-1 Transfer to Conveyor C-1

D. System 03 – Secondary Screening Circuit (D-311)

S2.012	Secondary Screen and Associated Transfers (IN from Conveyor C-305 (S2.011); OUT to Conveyors C-5 (S2.014), C-306 (S2.013), and C-307 (S2.015))

E. System 05 - Limestone Quarry Conveyance Transfers

PF1.002	Conveyor C-3 Transfer to Stockpile
PF1.003	Conveyor C-4 Transfer to Stockpile
PF1.004	Conveyor C-5 Transfer to Conveyor C-6
PF1.005	Conveyor C-6 Transfer to Stockpile
PF1.006	Conveyor C-307 Transfer to Conveyor C-308
PF1.007	Conveyor C-308 Transfer to Stockpile

F. System 05A - Limestone Quarry Conveyance Transfers – Alternative Operating Scenario

PF1.002a	Conveyor C-3 Transfer to Stockpile
PF1.003a	Conveyor C-4 Transfer to Stockpile
PF1.004a	Conveyor C-5 Transfer to Conveyor C-6
PF1.005a	Conveyor C-6 Transfer to Stockpile
PF1.006a	Conveyor C-307 Transfer to Conveyor C-308
PF1.007a	Conveyor C-308 Transfer to Stockpile

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Emission Unit List (continued):

G. System 06 - Lime Plant Conveyance Transfers

PF1.008	Stockpile Transfer to Conveyor C-10 (F214)
PF1.009	Stockpile Transfer to Conveyor C-10 (F213)
PF1.010	Stockpile Transfer to Conveyor C-10 (F12)
PF1.011	Stockpile Transfer to Conveyor C-10 (F11)
PF1.012	Stockpile Transfer to Conveyor C-10 (F10)
PF1.013	Stockpile Transfer to Conveyor C-10 (F215)
PF1.014	Stockpile Transfer to Conveyor C-10 (F216)
PF1.015	Stockpile Transfer to Conveyor C-10 (F217)
PF1.016	Stockpile Transfer to Conveyor C-10 (F218)
PF1.017	Stockpile Transfer to Conveyor C-311 (F310)
PF1.018	Stockpile Transfer to Conveyor C-311 (F311)
PF1.019	Stockpile Transfer to Conveyor C-312 (F312)
PF1.020	Stockpile Transfer to Conveyor C-312 (F313)
PF1.021	Stockpile Transfer to Conveyor C-312 (F314)
PF1.022	Stockpile Transfer to Conveyor C-312 (F315)
PF1.023	Stockpile Transfer to Conveyor C-312 (F316)
PF1.024	Conveyor C-313 Transfer to Fines Stockpile
PF1.025	Conveyor C-11 Transfer to Fines Stockpile
PF1.026	Conveyor C-311 Transfer to Conveyor C-312

H. System 07 - Lime Plant Stone Dressing Screen (Kilns 1 and 2) (D-10)

S2.017	Stone Dressing Screen S-10 and Associated Transfers (IN from Conveyor C-10 (S2.016); OUT to Conveyor C-11 (S2.018) and C-12 (S2.019))

I. System 08 - Lime Plant Stone Dressing Screen

S2.021	Stone Dressing Screen S-312 and Associated Transfers (IN from Conveyor C-312 (S2.020); OUT to Conveyors C-313 (S2.022) and C-314 (S2.023))

J. System 09 - Lime Plant Stone Surge Bins N-19 (Kiln 1) and N-219 (Kiln 2) (D-19)

S2.024	Conveyor C-12 Transfer to Stone Surge Bins N-19 and N-219
S2.026	Stone Surge Bin N-19 (S2.025) Transfer to Conveyor C-19
S2.027	Conveyor C-19 transfer to Kin #1 Pre-heater PH-20
S2.029	Stone Surge Bin N-219 (S2.028) Transfer to Conveyor C-219
S2.030	Conveyor C-219 Transfer to Kiln #2 Pre-heater PH-220

K. System 10 - Kiln #1 Circuit (D-85)

S2.031	Kiln #1 Pre-heater PH-20
S2.032	Kiln #1 (K-20) and Associated Coal Mill R-92
S2.033	Kiln #1 Lime Cooler N-21

L. System 11 - Kiln #1 Coal Handling Circuit

PF1.027	Truck Dump to Coal Hopper N-90
PF1.028	Coal Hopper N-90 transfer to Conveyor C-90
PF1.029	Coal Silo T-90 Discharge to Conveyor C-92 (followed by fully enclosed transfer to Coal Mill R-92 (PF1.030))

M. System 12 - #1 Coal Silo T-90 (D-91)

S2.035	Conveyor C-90 Transfer to Coal Silo T-90

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Emission Unit List (continued):

N. System 13 - Kiln #2 Circuit (D-285)
S2.036 Kiln #2 Pre-heater PH-220
S2.037 Kiln #2 (K-220) and Associated Coal Mill R-292
S2.038 Kiln #2 Lime Cooler N-221

O. System 13a - Kiln #2 Circuit (D-282)
S2.037.1 Kiln #2 K-220 Cyclone Bin N-280

P. System 14 - Kiln #2 Coal Handling Circuit
PF1.031 Conveyor C-90 Transfer to Conveyor C-290
PF1.032 Coal Silo T-290 Discharge to Conveyor C-292 (followed by fully enclosed transfer to coal mill R-292 via Conveyor C-292 (PF1.033))

Q. System 15 - Kiln #2 Coal Silo T-290 (D-291)
S2.039 Conveyor C-290 Transfer to Coal Silo T-290

R. System 16 - Lime Plant Stone Feed to Kiln #3 (D-382)
S2.041 Kiln #3 Conveyor C-314 transfer to Pre-heater PH-321

S. System 17 - Kiln #3 Circuit (D-385)
S2.042 Kiln #3 Pre-heater PH-321
S2.043 Kiln #3 (K-321) and Associated Coal Mill R-392
S2.044 Kiln #3 Lime Cooler N-332

T. System 18 - Kiln #3 Coal Handling Circuit
PF1.034 Conveyor C-90 Transfer to Conveyor C-391
PF1.035 Coal Silo T-391 Discharge to Conveyor C-392 (followed by fully enclosed transfer to Coal Mill R-392 via conveyor C-392 (PF1.036))

U. System 19 - Kiln #3 Coal Silo T-391
S2.045 Conveyor C-391 transfer to Coal Silo T-391

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Emission Unit List (continued):

V. System 20 - Product Lime Loadout from Kiln #1 D-82

S2.047	Kiln #1 Lime Cooler N-21 transfer to Conveyor C-30
S2.048	Conveyor C-30 Transfer to Bucket Elevator E-30
S2.051	Gate G-36 transfer to Kiln Run Silo T-40 (Silo T-40 Discharges via Fully Enclosed Transfer (S2.052))
S2.053	Feeder F-50 Transfer to Conveyor C-50
S2.054	Crusher R-50 and Associated Transfers (IN from Conveyor C-50; OUT to Gate G-55 (S2.055))
S2.056	Gate G-55 Transfer to Bucket Elevator E-30
S2.057	Gate G-36 Transfer to Core Bin N-30
S2.058	Core Bin N-30 Discharge
S2.067	Loadout Silo T-42 Discharge
S2.072	Conveyor C-231 Transfer to Bucket Elevator E-32
S2.074	Conveyor C-42 Transfer to Loadout Silo T-42
S2.075	Conveyor C-44 Transfer to Loadout Silo T-44 (Silo T-44 Discharges via Fully Enclosed Transfer Point to Conveyor C-61 (S2.109))
S2.077	Gate G-43 transfer to Kiln Run Silo T-40
S2.088	Gate G-39 Transfer to Kiln Run Silo T-40
S2.089	Gate G-39 Transfer to Core Bin N-30
S2.092	Gate G-37 Transfer to Core Bin N-30
S2.099	Gate G-44 Transfer to Kiln Run Silo T-40
S2.103	Conveyor C-51 Transfer to Conveyor C-50
S2.104	Gate G-55 Transfer to Bucket Elevator E-31
S2.106	Conveyor C-52 Discharge to Loadout
S2.108	Conveyor C-60 Discharge to Loadout
S2.110	Conveyor C-61 Discharge to Loadout
S2.111	Loadout Silo T-44 Discharge

W. System 21 - Product Lime Loadout from Kiln #2

S2.068	Kiln #2 Lime Cooler N-221 Transfer to Conveyor C-230
S2.069	Conveyor C-230 Transfer to Bucket Elevator E-230
S2.070	Mill R-250 and Associated Transfers (IN from Screen S-230 and Gate-236; OUT to Bucket Elevator E-230)
S2.071	Gate G-236 Transfer to Conveyor C-231
S2.078	Bucket Elevator E-230 Transfer to Gate G-235
S2.079	Gate G-235 Transfer to Screw Conveyor C-231
S2.080	Screen S-230 and Associated Transfers (IN from Gate G-235; OUT to Mill R-250, Gate G-236, and Conveyor C-231)

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Emission Unit List (continued):

X. System 22 - Product Lime Loadout from Kiln #2 (DC-30)

S2.050	Screen S-30 and Associated Transfers (IN from Gate G-36 and G-37 (S2.093); OUT to Conveyor C-42 or C-43 via Gate G-41 and Gate G-42 (S2.059); OUT to Conveyor C-42 or Screen S-30 Transfer to Kiln Run Silo T-40 (S2.062))
S2.060	Conveyor C-43 transfer to Silo T-43 (Silo T-43 Discharges via Fully Enclosed Transfer to Conveyor C-52 or Conveyor C-60 (S2.061 or S2.107))
S2.076	Conveyor C-41 Transfer to Kiln Run Silo T-41 (Silo T-41 Discharges Through Fully Enclosed Transfers to Either Conveyor C-51 or Conveyor C-52 (S2.102 or S2.105))
S2.081	Bucket Elevator E-32 Transfer to Gate G-38
S2.082	Screen S-31 and Associated Transfers (IN from Gate G-38 and Gate G-37 (S2.091); OUT to Screw Conveyor C-42 (S2.094), Gate G-44 (S2.096), and Gate G-43 (S2.100))
S2.083	Gate G-38 to Gate G-39
S2.084	Gate G-38 Transfer to Conveyor C-42
S2.085	Gate G-35 Transfer to Gate G-36 OR Gate G-35 Transfer to Screen S-31
S2.086	Bucket Elevator E-30 Transfer to Gate G-35
S2.087	Gate G-39 Transfer to Kiln Run Silo T-41
S2.090	Bucket Elevator E-31 Transfer to Gate G-37
S2.097	Gate G-44 Transfer to Screw Conveyor C-42 (Screw Conveyor C-42 Transfers to Conveyor C-44 via Fully Enclosed Transfer (S2.066))
S2.098	Gate G-44 Transfer to Conveyor C-43
S2.101	Gate-43 Transfer to Conveyor C-41

Y. System 23 - Kiln #1 and Kiln #2 Cyclone/Baghouse Fines Silo Discharge

PF1.038	Fine Dust Silo T-89 to Pugmill (includes discharge of saturated material from pugmill into truck (PF1.038.1))

Z. System 24 - Kiln #1 and Kiln #2 Cyclone/Baghouse Product Loadout (D-89)

S2.113	Process Baghouse Transfer to Fine Dust Silo T-89 via Conveyor C-285 and Conveyor C-85

AA. System 25 - Kiln #1 and Kiln #2 Baghouse Fines Silo Discharge System (D-11)

S2.224	Fines Silo T-89 Discharge to Truck via Retractable Spout

AB. System 26 - Kiln #3 Baghouse Collection Product Loadout (D-388)

S2.115	Process Baghouse Transfer to Fine Dust Silo T-388 via Conveyor C-385

AC. System 27 - Kiln #3 Baghouse Fines Discharge System (D-389)

S2.116	Fine Dust Silo T-388 Discharge to Truck (Vaculoader System)

AD. System 28 - Kiln #3 Baghouse Fines Discharge System

PF1.042	Fines Dust Silo T-388 Transfer to Pugmill (includes transfer of fully saturated material from pugmill to truck (PF1.042.1))

AE. System 29 - Hydrate Plant Surge Bin

S2.117	Conveyor C-1105 Transfer to Surge Bin N-1101
S2.117.1	Product Lime Silo T-44 Transfer to Gate G-1105
S2.117.2	Gate G-1105 Transfer to Conveyor C-1105
S2.118	Surge Bin N-1101 transfer to Conveyor C-1102
S2.118.1	Conveyor C-1102 Transfer to Conveyor C-1104
S2.119	Conveyor C-1104 Transfer to Hydrator Package

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Emission Unit List (continued):

AF. System 30 - Hydrate Plant Hydrator

S2.120	Hydrator
S2.121	Conveyor C-1122 Transfer to Gate G-1122
S2.130	Bucket Elevator E-1130 transfer to Conveyor C-1122

AG. System 31 - Hydrate Plant Lime Transfer (DC-1132)

S2.122	Gate G-1122 Transfer to Conveyor C-1123
S2.123	Separator Screen S-1130 and Associated Transfers (IN from Gate G-1122 and Bucket Elevator E-1130 (S2.130); OUT to Conveyor C-1130 (S2.124) and Conveyor C-1134 or Conveyor C-1132 (S2.128))
S2.125	Mill R-1130 and Associated Transfers (IN from Conveyor C-1130; OUT to Conveyor C-1131 (S2.129))
S2.126	Conveyor C-1131 Transfer to Bucket Elevator E-1130
S2.127	Separator Screen S-1131 and Associated Transfers (IN from Bucket Elevator E-1130; OUT to Conveyor C-1130, Conveyor C-1132, or Conveyor C-1134 (S2.128))
S2.131	Conveyor C-1134 and Conveyor C-1132 transfer to Bin N-1130

AH. System 32 - Hydrate Plant Lime Transfer to Silo T-1140 (DC-1140)

S2.132	Bin N-1130 Transfer to Gate G-1131
S2.132.1	Gate G-1131 to Gate G-1133
S2.135	Pneumatic Conveyor A-1130 Transfer to Loadout Silo T-1140 via Gate G-1133

AI. System 33 - Hydrate Plant Lime Transfer to Silo T-1141

S2.132	Bin N-1130 Transfer to Gate G-1131
S2.132.1	Gate G-1131 to Gate G-1133
S2.137	Pneumatic Conveyor A-1130 Transfer to Loadout Silo T-1141 via Gate G-1133

AJ. System 34 - Hydrate Silos Loadout

S2.136	Loadout Silo T-1140 Discharge via Conveyor C-1140
S2.138	Loadout Silo T-1141 Discharge via Conveyor C-1141

AK. System 35 - Product Lime Kiln #3 - Control Device #1 (D-331)

S2.144	Bucket Elevator E-331 Transfer to Gate G-331.1
S2.145	Gate G-331.1 Transfer to Gate G-331 or Silo T-40
S2.146	Gate G-331 Transfer to Core Bin N-332 or Conveyor C-333
S2.147	Conveyor C-333 Transfer to Kiln #3 Run Silo T-331
S2.148	Core Bin N-332 Discharge to Truck
S2.149	Bucket Elevator E-332 Transfer to Gate G-332.1
S2.149.1	Gate G-332.1 Transfer to Conveyor C-334 or Bin N-332
S2.150	Conveyor C-334 Transfer to #3 Kiln Run Silo T-331

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Emission Unit List (continued):

AL. System 36 - Product Lime Kiln #3 Control Device #2 (D-333)

S2.139	Kiln #3 Lime Cooler N-322 Transfer to Gate G-326
S2.140	Gate G-326 Transfer to Conveyor C-331
S2.141	Gate G-326 Transfer to Conveyor C-332
S2.142	Conveyor C-331 Transfer to Bucket Elevator E-331
S2.143	Conveyor C-332 Transfer to Bucket Elevator E-332
S2.151	Gate G-353 Transfer to Conveyor C-332
S2.152	Gate G-354 Transfer to Conveyor C-332
S2.154	Kiln #3 Run Silo T-331 Transfer via Feeder F-336 to Conveyor C-336
S2.155	Kiln #3 Run Silo T-331 Transfer via Feeder F-337 to Conveyor C-337
S2.156	Conveyor C-336 Transfer to Bucket Elevator E-336
S2.157	Conveyor C-337 Transfer to Bucket Elevator E-337
S2.158	Bucket Elevator E-336 Transfer to Gate G-336
S2.159	Screen S-336 and Associated Transfers (IN from Gate G-336; OUT to Crusher R-351 (S2.161), Gate G-351 (S2.162), and Gate G-353 (S2.165))
S2.160	Gate G-336 Transfer to Conveyor C-341
S2.163	Crusher R-351 and Associated Transfers (IN from Gate G-351 and Screen S-336 (S2.161); OUT to Screw Conveyor C-351 (S2.167))
S2.164	Gate G-351 transfer to Conveyor C-342
S2.166	Gate G-353 Transfer to Conveyor C-341
S2.168	Conveyor C-351 Transfer to Bucket Elevator E-336
S2.169	Bucket Elevator E-337 Transfer to Gate G-337
S2.170	Screen S-337 and Associated Transfers (IN from Gate G-337; OUT to Crusher R-352 (S2.172), Gate G-352 (S2.175), and Gate G-354 (S2.178)
S2.171	Gate G-337 Transfer to Conveyor C-341
S2.173	Crusher R-352 and Associated Transfer (IN from Screen S-337 (S2.172) and Gate G-352 (S2.176); OUT to Screw Conveyor C-352)
S2.174	Conveyor C-352 Transfer to Bucket Elevator E-337
S2.177	Gate G-352 Transfer to Conveyor C-342
S2.179	Gate G-354 Transfer to Conveyor C-341

AM. System 37 - Product Lime Kiln #3 - Control Device #3 (D-343)

S2.182	Conveyor C-341 Transfer to Bucket Elevator E-341
S2.183	Conveyor C-342 Transfer to Bucket Elevator E-342
S2.184	Bucket Elevator E-341 Transfer to Lime Silo T-343
S2.185	Bucket Elevator E-342 Transfer to Lime Silo T-342

AN. System 38 - Product Lime Kiln #3 - Control Device #4 (D-361)

S2.187	Lime Silo T-343 Loadout to Truck (via Spout U-362 or Transfer to Conveyor C-364)
S2.188	Lime Silo T-342 Loadout to Truck (via Spout U-363 or Transfer to Conveyor C-365)
S2.188.1	Conveyor C-364 and Conveyor C-365 Transfer to Truck via Spout U-364

AO. System 40 - Gasoline Storage Tank (5,700 gallons)

S2.189	Gasoline Storage Tank (5,700 gallon capacity)

AP. System 41 - Kiln #1 Auxiliary Drive Motor

S2.204	Kiln #1 Auxiliary Drive Motor (51 kW, Deutz, model F4L912 (or equivalent), manufactured pre 2003)

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Emission Unit List (continued):

AQ. System 42 - Kiln #2 Auxiliary Drive Motor
S2.205 Kiln #2 Auxiliary Drive Motor (51 kW, Deutz, Model F4L912 (or equivalent), manufactured pre 2003)

AR. System 43 - Kiln #3 Auxiliary Drive Motor
S2.206 Kiln #3 Auxiliary Drive Motor (51 kW, Deutz, model F4L912 (or equivalent), manufactured pre 2003)

AS. System 44 - Emergency Fire Pump
S2.207 Emergency Diesel Fired Fire Pump (169 kW, John Deere, 2009 or later)

AT. System 45 - Toana Truck Unloading
PF1.043 Truck Unloading to Below-grade Hopper

AU. System 46 - Toana Railcar Loading
S2.194 Hopper Discharge to Conveyor
S2.195 Conveyor Discharge to Railcar via Loadout Spout

AV. System 47 - Fine Dust Surge Bin N-80 Transfer to Truck
PF1.044 Fine Dust Surge Bin N-80 transfer to Truck

AW. System 48 - Fine Dust Surge Bin N-280 Transfer to Truck
PF1.045 Fine Dust Surge Bin N-280 transfer to Truck

AX. System 49 - Fine Dust Surge Bin N-381 Transfer to Truck
PF1.046 Fine Dust Surge Bin N-381 transfer to Truck

AY. System 50 – Truck Dump to Hoppers #1 and #2
PF1.047 Truck Dump to Hoppers #1 and #2

AZ. System 51 – Hoppers #1 and #2 Discharge
PF1.048 Hoppers #1 and #2 discharge to Belt Feeders #1 and #2
PF1.049 Belt Feeders #1 and #2 transfer to Reclaim Belt Conveyor

BA. System 52 – Pozzolan Silo
S2.196 Pozzolan Silo Loading
PF1.050 Pozzolan Silo Discharge to Pozzolan Belt Feeder

BB. System 53 – Pozzolan Belt Feeder
PF1.051 Pozzolan Belt Feeder transfer to Covered Z Belt

BC. System 54 – Quicklime Silo
S2.197 Quicklime Silo Loading
PF1.052 Quicklime Silo Discharge to Quicklime Belt Feeder transfer

BD. System 55 – Quicklime Belt Feeder
PF1.053 Quicklime Belt Feeder transfer to Covered Z Belt

BE. System 56 – GRAYBOND Ball Mill Air Classifier
S2.198 Air Classifier and associated transfers (In: Ball Mill; Out: Ball Mill and Product Classifier Baghouse)

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Emission Unit List (continued):

BF. System 57 – GRAYBOND Ball Mill

S2.199	Ball Mill and associated transfers (In: Reclaim Belt Conveyor, Covered Z Belt, and Air Classifier; Out: Air Classifier via Enclosed Screw Conveyors, Main Storage Silos #1 and #2 via Enclosed Screw Conveyors)

BG. System 58 – GRAYBOND Product Silos

S2.200	Main Storage Silo #060 Loading
S2.201	Main Storage Silo #070 Loading
S2.202	Main Storage Silo #060 Discharge to Truck
S2.203	Main Storage Silo #070 Discharge to Truck

BG. System 59 – Emergency Generator

S2.208	Emergency Diesel Fired Generator (74.9 kW, Caterpillar, manufactured 2008 or later)

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

Facility ID No. A0367 *Permit No.* AP3274-1329.04
CLASS I AIR QUALITY OPERATING PERMIT

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section I. General Conditions

A. Nevada Administrative Code (NAC) 445B.063
The Department may use any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed, to determine excess emissions.

B. NAC 445B.22013
Prohibited Discharge
The Permittee shall not cause or permit the discharge into the atmosphere from any stationary source of any hazardous air pollutant or toxic regulated air pollutant that threatens the health and safety of the general public, as determined by the Director.

C. NAC 445B.22017
Visible Emissions: Maximum Opacity; Determination and Monitoring of Opacity.
1. Except as otherwise provided in this section and NAC 445B.2202, the Permittee may not cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:
   a. If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A of 40 CFR Part 60.
   b. If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 CFR 60.13(h).
2. The provisions of this section and NAC 445B.2202 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.
3. The continuous monitoring system for monitoring opacity at a facility shall be operated and maintained by the Permittee specified in the permit for the facility in accordance with NAC 445B.256 to 445B.267, inclusive.

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

E. NAC 445B.22087
Odors
1. The Permittee may not discharge or cause to be discharged, from any stationary source, any material or regulated air pollutant which is or tends to be offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents the comfortable enjoyment of life or property.
2. The Director shall investigate an odor when 30 percent or more of a sample of the people exposed to it believe it to be objectionable in usual places of occupancy. The sample must be at least 20 people or 75 percent of those exposed if fewer than 20 people are exposed.
3. The Director shall deem the odor to be a violation if he or she is able to make two odor measurements within a period of 1 hour. These measurements must be separated by at least 15 minutes. An odor measurement consists of a detectable odor after the odorous air has been diluted with eight or more volumes of odor-free air.

F. NAC 445B.225
Prohibited Conduct: Concealment of Emissions
The Permittee may not install, construct or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.

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Section I. General Conditions (continued)

G. NAC 445B.227

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

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

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

H. NAC 445B.232

Excess Emissions

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

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section I. General Conditions (continued)

I. NAC 445B.252

Testing and Sampling

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

[1] Requires additional approval from the EPA Administrator.
[2] Requires additional approval from the EPA Administrator.
[3] Requires additional approval from the EPA Administrator.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section I. General Conditions (continued)

J. NAC 445B.273(1)
Schedules for Compliance
All new and existing stationary sources must comply with NAC 445B.001 through 445B.390, inclusive. Existing stationary sources are in compliance with those sections and may continue to operate under the provisions of their approved compliance schedules, which may be amended from time to time.

K. NAC 445B.275
Violations: Acts constituting; notice
1. Failure to comply with any requirement of NAC 445B.001 to 445B.390, inclusive, any applicable requirement or any condition of an operating permit constitutes a violation. As required by NRS 445B.450, the Director shall issue a written notice of an alleged violation to the Permittee for any violation, including, but not limited to:
   a. Failure to apply for and obtain an operating permit;
   b. Failure to construct a stationary source in accordance with the application for an operating permit as approved by the Director;
   c. Failure to construct or operate a stationary source in accordance with any condition of an operating permit;
   d. Commencing construction or modification of a stationary source without applying for and receiving an operating permit or a modification of an operating permit as required by NAC 445B.001 to 445B.3477, inclusive, or a mercury operating permit to construct as required by NAC 445B.3611 to 445B.3689, inclusive;
   e. Failure to comply with any requirement for recordkeeping, monitoring, reporting or compliance certification contained in an operating permit; or
   f. Failure to pay fees as required by NAC 445B.327 or 445B.3689.
2. The written notice must specify the provision of NAC 445B.001 to 445B.390, inclusive, the condition of the operating permit or the applicable requirement that is being violated.
3. Written notice shall be deemed to have been served if delivered to the person to whom addressed or if sent by registered or certified mail to the last known address of the person.

L. NAC 445B.305
Operating permits: Imposition of more stringent standards for emissions
The Director may impose standards for emissions on a proposed stationary source that are more stringent than those found in NAC 445B.001 to 445B.390, inclusive, as a condition of approving an operating permit for the proposed stationary source.

M. NAC 445B.315
Contents of operating permits: Exception for operating permits to construct; required conditions
1. Notwithstanding any provision of this section to the contrary, the provisions of this section do not apply to operating permits to construct.
2. The Director shall cite the legal authority for each condition contained in an operating permit.
3. An operating permit must contain the following conditions:
   a. The term of the operating permit is 5 years.
   b. The Permittee shall retain records of all required monitoring data and supporting information for 5 years after the date of the sample collection, measurement, report or analysis. Supporting information includes all records regarding calibration and maintenance of the monitoring equipment and all original strip-chart recordings for continuous monitoring instrumentation.
   c. Each of the conditions and requirements of the operating permit is severable, and if any are held invalid, the remaining conditions and requirements continue in effect.
   d. The Permittee shall comply with all conditions of the operating permit. Any noncompliance constitutes a violation and is a ground for:
      (1) An action for noncompliance;
      (2) Revising, revoking, reopening and revising, or terminating the operating permit by the Director; or
      (3) Denial of an application for a renewal of the operating permit by the Director.
   e. The need to halt or reduce activity to maintain compliance with the conditions of the operating permit is not a defense to noncompliance with any condition of the operating permit.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section I. General Conditions (continued)

M. NAC 445B.315 (continued)
Contents of operating permits: Exception for operating permits to construct; required conditions (continued)

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

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

O. NAC 445B.325
Termination, reopening and revision, modification, and revocation and reissuance

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

[4] The Permittee shall submit yearly reports including, but not limited to, throughput, production, fuel consumption, hours of operation, and emissions. These reports will be submitted in the format required by the Nevada Division of Environmental Protection Bureau of Air Pollution Control and Bureau of Air Quality Planning (Air Programs) for all emission units/systems specified on the form. The report must be submitted to the Air Programs no later than March 1 annually for the preceding calendar year, unless otherwise approved by the Air Programs.
[5] Under NAC 445B.288(3), the Permittee shall retain an operating log for emission units considered insignificant activities subject to a limitation on its hours of operation pursuant to NAC 445B.288(2) for not less than 5 years.
[6] Under NAC 445B.287(3), an operating permit may not be transferred from one owner or piece of equipment to another. The Permittee may apply for an administrative amendment reflecting a change of ownership or the name of the stationary source.
[7] State only requirements (only Nevada has authority to enforce).

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section I. General Conditions (continued)

O. NAC 445B.325 (continued)
Termination, reopening and revision, modification, and revocation and reissuance (continued)

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

P. NAC 445B.3265
Operating permits: Revocation and reissuance

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

Q. NAC 445B.3405(1)(d)
The Permittee shall record:

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

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

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section I. General Conditions (continued)

R. NAC 445B.3405(1)(e)
The Permittee shall:
1. Promptly report to the Director all deviations from the requirements of this operating permit; and
2. Report to the Director the probable cause of all deviations and any action taken to correct the deviations. For this operating permit, prompt is defined as submittal of a report within 15 days of the deviation. This definition does not alter any reporting requirements as established for reporting of excess emissions as required under NAC 445B.232, or for reporting of an emergency (as defined by NAC 445B.326); and
3. Submit reports of any required monitoring every 6 months, within 8 weeks after June 30 and December 31 of each calendar year. The reports must contain a summary of the data collected as required by all monitoring, recordkeeping and compliance requirements and as specified in this operating permit.

S. NAC 445B.3405(1)(j)
The Permittee shall submit a compliance certification annually,[10] or more frequently if required by an applicable requirement, to the Director. A copy of the compliance certification must be submitted to the Administrator. A compliance certification must include:
1. An identification of each term or condition of the operating permit that is the basis of the certification;
2. The status of the stationary source's compliance with any applicable requirement;
3. A statement of whether compliance was continuous or intermittent;
4. The method used for determining compliance; and
5. Any other facts the Director determines to be necessary to determine compliance.

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

[10] The Permittee shall submit the compliance certification on or before March 1.
[11] The Director shall determine whether the application is complete within 60 days of receipt of the application (NAC 445B.3395). It is recommended the Permittee submit the application at least 300 days before the expiration date of the current Class I operating permit.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section I. General Conditions (continued)

U. Nevada Revised Statute (NRS) 445B.470
Prohibited acts; penalty; establishment of violation; request for prosecution

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

V. ASIP NAC Article 2.5.4
Breakdown or upset, determined by the Director to be unavoidable and not the result of careless or marginal operations, shall not be considered a violation of these regulations.

W. 40 CFR 52.21(r)(4)
At such time that the Permittee becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of 40 CFR Part 52.21 paragraphs (j) through (s) of this section shall apply to the source or modification as though construction had not yet commenced on the source or modification.

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

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section II. Construction Conditions

A. Notification (NAC 445B.250; NAC 445B.3405)

The Permittee shall notify the Director in writing of the following for **PF1.047 through PF1.053 and S2.196 through S2.203 –** added on September 25, 2023 and for **S2.204 through S2.208 –** added on enter date permit signed

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

B. Initial Opacity Compliance Demonstration and Initial Performance Tests

1. Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.3405, the Permittee, upon issuance of this operating permit, shall conduct and record initial opacity compliance demonstrations and/or initial performance tests within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup. The Permittee shall follow the test methods and procedures referenced in Table II-1 and Table II-2 below:

Table II-1: Initial Opacity Compliance Demonstration

System	Emission Unit(s)	Pollutant To Be Tested	Testing Methods/Procedures
System 50 – Truck Dump to Hoppers #1 and #2	PF1.047	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 51 – Hoppers #1 and #2 Discharge	PF1.048 and PF1.049		
System 52 – Pozzolan Silo	S2.196 and PF1.050		
System 53 – Pozzolan Belt Feeder	PF1.051		
System 54 – Quicklime Silo	S2.197 and PF1.052		
System 55 – Quicklime Belt Feeder	PF1.053		

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section II. Construction Conditions (continued)

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

1. Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.3405, the Permittee, upon issuance of this operating permit, shall conduct and record initial opacity compliance demonstrations and/or initial performance tests within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup. The Permittee shall follow the test methods and procedures referenced in Table II-1 and Table II-2below: (continued)

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

System	Emission Unit(s)	Pollutant To Be Tested	Testing Methods/Procedures
System 56 – GRAYBOND Ball Mill Air Classifier	S2.198	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 57 – GRAYBOND Ball Mill	S2.199		
System 58 – GRAYBOND Product Silos	S2.200 through S2.203		
System 41 – Kiln #1 Auxiliary Drive Motor	S2.204		
System 42 – Kiln #2 Auxiliary Drive Motor	S2.205		
System 43 – Kiln #3 Auxiliary Drive Motor	S2.206		
System 44 – Emergency Fire Pump	S2.207		
System 59 – Emergency Generator	S2.208		

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section II. Construction Conditions (continued)

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

1. Under the authority of NAC 445B.22017, NAC 445B.252, and NAC 445B.3405, the Permittee, upon issuance of this operating permit, shall conduct and record initial opacity compliance demonstrations and/or initial performance tests within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup. The Permittee shall follow the test methods and procedures referenced in Table II-1 and Table II-2below: (continued)

Table II-2: Initial Performance Demonstration

System	Emission Unit(s)	Pollutant To Be Tested	Testing Methods/Procedures
System 56 – GRAYBOND Ball Mill Air Classifier	S2.198	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.
		PM10/PM2.5	Method 201A 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. 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 PM2.5 for determination of compliance.
System 57 – GRAYBOND Ball Mill	S2.199	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.
		PM10/PM2.5	Method 201A 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. 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 PM2.5 for determination of compliance.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section II. Construction Conditions (continued)

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

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.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All 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).
4. Initial opacity compliance demonstrations and initial performance tests in **Table IIA-1 and Table IIA-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 II-1 and Table II-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 initial opacity compliance demonstrations and initial performance tests sufficient to provide adequate compliance demonstration. Should the Director determine that the initial opacity compliance demonstrations and initial performance tests do not provide adequate compliance demonstration, the Director may require additional testing.

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

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section III. Ambient Air Monitoring Requirements

A. Not Applicable.

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

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions

A. Emission Units PF1.001 and PF1.001.1

System 01 – Limestone Truck Dump		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.001	Limestone Truck Dump Transfer to Primary Crusher Hopper	4,522,576	731,181
PF1.001.1	Conveyor C-2 transfer to Crusher R-1	4,522,580	731,186

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **PF1.001** shall be controlled by **commercially designed water sprays**.
   b. Emissions from **PF1.001.1** shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.001 and PF1.001.1**, each, shall not exceed **1,100.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.001 and PF1.001.1**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.001** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.50** pounds per hour, nor more than **2.17** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.18** pounds per hour, nor more than **0.79** tons per 12-month rolling period.
      (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 **0.028** pounds per hour, nor more than **0.12** tons per 12-month rolling period.
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.001.1** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.65** pounds per hour, nor more than **7.23** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.61** pounds per hour, nor more than **2.65** tons per 12-month rolling period.
      (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 **0.094** pounds per hour, nor more than **0.41** tons per 12-month rolling period.
   c. NAC 445B.22017 – The opacity from **PF1.001 and PF1.001.1**, each, shall not equal or exceed **20** percent.
   d. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.001 and PF1.001.1**, each, shall not exceed **78.8** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.001 and PF1.001.1**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.001 and PF1.001.1**, each, for each calendar day.

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Section IV. Specific Operating Conditions (continued)

A. Emission Units PF1.001 and PF1.001.1 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.001 and PF1.001.1**,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 conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. The Permittee of any affected facility that uses wet suppression to control emissions from the affected facility must perform **monthly** periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken.
   g. Inspect the enclosure installed on **PF1.001.1** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.
   h. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **PF1.001.1** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Process fugitive emissions from **PF1.001.1** will not exceed **10 percent** opacity. (40 CFR Part 60.672(b))
      (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction. (40 CFR 60.11(c))
   b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.001.1** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

B. Emission Unit PF1.001a

System 01A – Limestone Truck Dump – Alternative Operating Scenario		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.001a	Limestone Truck Dump Transfer to Primary Crusher Hopper	4,522,576	731,181

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **PF1.001a** has no add-on controls.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.001a** shall not exceed **1,100.0** tons of **aggregate** per hour, averaged over a calendar day, nor more than **1,650,000.0** tons per 12-month rolling period.
   b. Hours
      (1) **PF1.001a** may operate a total of **24** hours per day.
      (2) **PF1.001a** may operate a total of **1,500** hours per year.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.001a** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **3.30** pounds per hour, nor more than **2.48** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.21** pounds per hour, nor more than **0.91** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.19** pounds per hour, nor more than **0.14** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.001a** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.001a** shall not exceed **78.8** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.001a** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.001a** for each calendar day.
   e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.

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Section IV. Specific Operating Conditions (continued)

C. Emission Units S2.001, S2.004, S2.007, S2.010.1, and S2.010.2

System 02 - Primary Crushing and Screening Circuit (D-1)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.001	Primary Crusher R-1 and Associated Transfers (IN from Primary Crusher Hopper; OUT to Conveyor C-1)	4,522,583	731,203
S2.004	Primary Screen S-1 and Associated Transfers (IN from Conveyor C-1; OUT to Conveyors C-2, C-3, C-7, and C-305)		
S2.007	Conveyor C-306 to Conveyor C-3		
S2.010.1	Conveyor C-7 Transfer to Conveyor C-4		
S2.010.2	Hopper/Feeder F-1 Transfer to Conveyor C-1		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2**, combined, shall be controlled by a **baghouse (D-1)**.
   b. Descriptive Stack Parameters
      Stack Height: 10.0 feet
      Stack Diameter: 2.5 feet
      Stack Temperature: 68ºF
      Exhaust Flow: 24,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2**, each, shall not exceed **1,100.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-1)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **4.11** pounds per hour, nor more than **18.0** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **3.29** pounds per hour, nor more than **14.4** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **3.29** pounds per hour, nor more than **14.4** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-1)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2**, each, shall not exceed **78.8** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2**, each, for each calendar day.

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Section IV. Specific Operating Conditions (continued)

C. Emission Units S2.001, S2.004, S2.007, S2.010.1, and S2.010.2 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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 IV. Specific Operating Conditions (continued)

C. Emission Units S2.001, S2.004, S2.007, S2.010.1, and S2.010.2 (continued)

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

a. On and after the sixtieth day after achieving the maximum production rate at which **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
   (1) Particulate Matter emissions from **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2**, combined, will not exceed **0.05 g/dscm** (4.53 lb/hr) and **7 percent** opacity for dry control devices. (40 CFR Part 60.672(b))
   (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))

b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))

c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.001, S2.004, S2.007, S2.010.1, and S2.010.2** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.012

System 03 - Secondary Screening Circuit (D-311)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.012	Secondary Screen and Associated Transfers (IN from Conveyor C-305 (S2.011); OUT to Conveyors C-5 (S2.014), C-306 (S2.013), and C-307 (S2.015))	4,522,622	731,239

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.012** shall be controlled by a **baghouse (D-311)**.
   b. Descriptive Stack Parameters
      Stack Height: 44.0 feet
      Stack Diameter: 2.337 feet (equivalent diameter, square stack)
      Stack Temperature: 68 ºF
      Exhaust Flow: 12,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.012** shall not exceed **1,100.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.012** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-311)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **2.06** pounds per hour, nor more than **9.01** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.65** pounds per hour, nor more than **7.21** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **1.65** pounds per hour, nor more than **7.21** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-311)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.012** shall not exceed **78.8** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.012** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.012** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.012** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

D. Emission Unit S2.012 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   f. Inspect the baghouse installed on **S2.012** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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.

6. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **S2.012** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Particulate Matter emissions from **S2.012** will not exceed **0.05 g/dscm** (2.26 lb/hr) and **7 percent** opacity for dry control devices. (40 CFR Part 60.672(b))
      (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))
   b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.012** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

E. Emission Units PF1.002 through PF1.007

System 05 – Limestone Quarry Conveyance Transfers		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.002	Conveyor C-3 Transfer to Stockpile	4,522,630	731,181
PF1.003	Conveyor C-4 Transfer to Stockpile	4,522,549	731,241
PF1.004	Conveyor C-5 Transfer to Conveyor C-6	4,522,633	731,257
PF1.005	Conveyor C-6 Transfer to Stockpile	4,522,595	731,293
PF1.006	Conveyor C-307 Transfer to Conveyor C-308	4,522,563	731,280
PF1.007	Conveyor C-308 Transfer to Stockpile	4,522,522	731,298

1. Air Pollution Control Equipment (NAC 445B.3405)
   Emissions from **PF1.002 through PF1.007**, each, shall be controlled by **commercially designed water sprays**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.002 through PF1.007**, each, shall not exceed **1,100.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.002 through PF1.007**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.002 through PF1.007**, each, the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.50** pounds per hour, nor more than **2.17** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.18** pounds per hour, nor more than **0.79** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.028** pounds per hour, nor more than **0.12** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.002 through PF1.007**, each, shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.002 through PF1.007**, each, shall not exceed **78.8** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.002 through PF1.007**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.002 through PF1.007**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.002 through PF1.007**,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 conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

E. Emission Units PF1.002 through PF1.007 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   f. The Permittee of any affected facility that uses wet suppression to control emissions from the affected facility must perform **monthly** periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken.
   g. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. Emission Limits (40 CFR Part 60.672, Table 3)
   On and after the sixtieth day after achieving the maximum production rate at which **PF1.004 and PF1.006** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Process fugitive emissions from **PF1.004 and PF1.006**, each, will not exceed **10 percent** opacity. (40 CFR Part 60.672(b))
      (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))
   b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.004 and PF1.006**, each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

F. Emission Units PF1.002a through PF1.007a

System 05a – Limestone Quarry Conveyance Transfers – Alternative Operating Scenario		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.002a	Conveyor C-3 Transfer to Stockpile	4,522,630	731,181
PF1.003a	Conveyor C-4 Transfer to Stockpile	4,522,549	731,241
PF1.004a	Conveyor C-5 Transfer to Conveyor C-6	4,522,633	731,257
PF1.005a	Conveyor C-6 Transfer to Stockpile	4,522,595	731,293
PF1.006a	Conveyor C-307 Transfer to Conveyor C-308	4,522,563	731,280
PF1.007a	Conveyor C-308 Transfer to Stockpile	4,522,522	731,298

1. Air Pollution Control Equipment (NAC 445B.3405)
   PF1.002a through PF1.007a, each, has no add-on controls.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.002a through PF1.007a**, each, shall not exceed **1,100.0** tons of **aggregate** per hour, averaged over a calendar day, nor more than **1,650,000.0** tons per 12-month rolling period.
   b. Hours
      (1) **PF1.002a through PF1.007a**, each, may operate a total of **24** hours per day.
      (2) **PF1.002a through PF1.007a**, each, may operate a total of **1,500** hours per year.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.002a through PF1.007a**, each, the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **3.30** pounds per hour, nor more than **2.48** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.21** pounds per hour, nor more than **0.91** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.19** pounds per hour, nor more than **0.14** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.002a through PF1.007a**, each, shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.002a through PF1.007a**, each, shall not exceed **78.8** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.002a through PF1.007a**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.002a through PF1.007a**, each, for each calendar day.
   e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
   f. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

F. Emission Units PF1.002a through PF1.007a (continued)

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

a. Emission Limits (40 CFR Part 60.672, Table 3)
On and after the sixtieth day after achieving the maximum production rate at which **PF1.004a and PF1.006a** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
(1) Process fugitive emissions from **PF1.004a and PF1.006a**, each, will not exceed **10 percent** opacity. (40 CFR Part 60.672(b))
(2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))

b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))

c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.004a and PF1.006a**, each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

G. Emission Units PF1.008 through PF1.026

System 06 - Lime Plant Conveyance Transfers		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.008	Stockpile Transfer to Conveyor C-10 (F214)	4,522,625	731,322
PF1.009	Stockpile Transfer to Conveyor C-10 (F213)	4,522,625	731,322
PF1.010	Stockpile Transfer to Conveyor C-10 (F12)	4,522,625	731,322
PF1.011	Stockpile Transfer to Conveyor C-10 (F11)	4,522,625	731,322
PF1.012	Stockpile Transfer to Conveyor C-10 (F10)	4,522,625	731,322
PF1.013	Stockpile Transfer to Conveyor C-10 (F215)	4,522,625	731,322
PF1.014	Stockpile Transfer to Conveyor C-10 (F216)	4,522,625	731,322
PF1.015	Stockpile Transfer to Conveyor C-10 (F217)	4,522,625	731,322
PF1.016	Stockpile Transfer to Conveyor C-10 (F218)	4,522,625	731,322
PF1.017	Stockpile Transfer to Conveyor C-311 (F310)	4,522,541	731,339
PF1.018	Stockpile Transfer to Conveyor C-311 (F311)	4,522,541	731,339
PF1.019	Stockpile Transfer to Conveyor C-312 (F312)	4,522,541	731,339
PF1.020	Stockpile Transfer to Conveyor C-312 (F313)	4,522,541	731,339
PF1.021	Stockpile Transfer to Conveyor C-312 (F314)	4,522,541	731,339
PF1.022	Stockpile Transfer to Conveyor C-312 (F315)	4,522,541	731,339
PF1.023	Stockpile Transfer to Conveyor C-312 (F316)	4,522,541	731,339
PF1.024	Conveyor C-313 Transfer to Fines Stockpile	4,522,516	731,365
PF1.025	Conveyor C-11 Transfer to Fines Stockpile	4,522,660	731,314
PF1.026	Conveyor C-311 Transfer to Conveyor C-312	4,522,541	731,339

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **PF1.008 through PF1.023 and PF1.026** are **underground transfers.**
   b. **PF1.024 and PF1.025** have no add-on controls.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.008 through PF1.023 and PF1.026**, each, shall not exceed **250.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. The maximum allowable throughput rate for **PF1.024** shall not exceed **25.0** tons of **aggregate** per hour, averaged over a calendar day.
   c. The maximum allowable throughput rate for **PF1.025** shall not exceed **30.0** tons of **aggregate** per hour, averaged over a calendar day.
   d. Hours
      (1) **PF1.008 through PF1.026**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.008 through PF1.023 and PF1.026**, each, the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.38** pounds per hour, nor more than **1.64** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.14** pounds per hour, nor more than **0.60** tons per 12-month rolling period.
      (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 **0.021** pounds per hour, nor more than **0.093** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.008 through PF1.023 and PF1.026**, each, shall not exceed **61.0** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

G. Emission Units PF1.008 through PF1.026 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405) (continued)
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.024** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.075** pounds per hour, nor more than **0.33** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.028** pounds per hour, nor more than **0.12** tons per 12-month rolling period.
      (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 **0.0043** pounds per hour, nor more than **0.019** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.024** shall not exceed **35.4** pounds per hour.
   c. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.025** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.090** pounds per hour, nor more than **0.39** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.033** pounds per hour, nor more than **0.14** tons per 12-month rolling period.
      (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 **0.0051** pounds per hour, nor more than **0.022** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.025** shall not exceed **40.0** pounds per hour.
   d. NAC 445B.22017 – The opacity from **PF1.008 through PF1.026**, each, shall not equal or exceed **20** percent.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.008 through PF1.026**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.008 through PF1.026**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.008 through PF1.026**, each, on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader with the sun oriented to their back in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. 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))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

G. Emission Units PF1.008 through PF1.026 (continued)

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

a. Emission Limits (40 CFR Part 60.672, Table 3)
On and after the sixtieth day after achieving the maximum production rate at which **PF1.008 through PF1.023 and PF1.026** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
(1) Process fugitive emissions from **PF1.008 through PF1.023 and PF1.026**, each, will not exceed **10 percent** opacity. (40 CFR Part 60.672(b))
(2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))

b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))

c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.008 through PF1.023 and PF1.026**, each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

H. Emission Unit S2.017

System 07 - Lime Plant Stone Dressing Screen (Kilns 1 and 2) (D-10)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.017	Stone Dressing Screen S-10 and Associated Transfers (IN from Conveyor C-10 (S2.016); OUT to Conveyor C-11 (S2.018) and C-12 (S2.019))	4,522,637	731,344

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.017** shall be controlled by a **baghouse (D-10)**.
   b. Descriptive Stack Parameters
      Stack Height: 23.0 feet
      Stack Diameter: 1.251 feet (equivalent diameter, square stack)
      Stack Temperature: 68 ºF
      Exhaust Flow: 5,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.017** shall not exceed **250.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.017** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-10)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.86** pounds per hour, nor more than **3.75** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.86** pounds per hour, nor more than **3.75** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.86** pounds per hour, nor more than **3.75** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-10)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.017** shall not exceed **61.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.017** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.017** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.017** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

H. Emission Unit S2.017 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   f. Inspect the baghouse installed on **S2.017** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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.

6. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **S2.017** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Particulate Matter emissions from **S2.017** will not exceed **0.05 g/dscm** (0.94 lb/hr) and **7 percent** opacity for dry control devices. (40 CFR Part 60.672(b))
      (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))
   b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.017** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

I. Emission Unit S2.021

System 08 - Lime Plant Stone Dressing Screen		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.021	Stone Dressing Screen S-312 and Associated Transfers (IN from Conveyor C-312 (S2.020); OUT to Conveyors C-313 (S2.022) and C-314 (S2.023))	4,522,544	731,360

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.021** shall be controlled by a **baghouse (D-317)**.
   b. Descriptive Stack Parameters
      Stack Height: 40.0 feet
      Stack Diameter: 1.736 feet (equivalent diameter, square stack)
      Stack Temperature: 68 ºF
      Exhaust Flow: 8,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.021** shall not exceed **250.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.021** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-317)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.46** pounds per hour, nor more than **6.38** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.17** pounds per hour, nor more than **5.11** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **1.17** pounds per hour, nor more than **5.11** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-317)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.021** shall not exceed **61.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.021** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.021** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.021** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

I. Emission Unit S2.021 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   f. Inspect the baghouse installed on **S2.021** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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.

6. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **S2.021** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Particulate Matter emissions from **S2.021** will not exceed **0.05 g/dscm** (1.60 lb/hr) and **7 percent** opacity for dry control devices. (40 CFR Part 60.672(b))
      (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))
   b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.021** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

J. Emission Units S2.024, S2.026, S2.027, S2.029, and S2.030

System 09 - Lime Plant Stone Surge Bins N-19 (Kiln 1) and N-219 (Kiln 2) (D-19)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.024	Conveyor C-12 Transfer to Stone Surge Bins N-19 and N-219	4,522,681	731,385
S2.026	Stone Surge Bin N-19 (S2.025) Transfer to Conveyor C-19		
S2.027	Conveyor C-19 transfer to Kin #1 Pre-heater PH-20		
S2.029	Stone Surge Bin N-219 (S2.028) Transfer to Conveyor C-219		
S2.030	Conveyor C-219 Transfer to Kiln #2 Pre-heater PH-220		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.024, S2.026, S2.027, S2.029, and S2.030**, combined, shall be controlled by a **baghouse (D-19)**.
   b. Descriptive Stack Parameters
      Stack Height: 33.0 feet
      Stack Diameter: 1.262 feet (equivalent diameter, square stack)
      Stack Temperature: 68 ºF
      Exhaust Flow: 4,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.024, S2.026, S2.027, S2.029, and S2.030**, each, shall not exceed **250.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.024, S2.026, S2.027, S2.029, and S2.030**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-19)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.77** pounds per hour, nor more than **3.38** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.77** pounds per hour, nor more than **3.38** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.77** pounds per hour, nor more than **3.38** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-19)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.024, S2.026, S2.027, S2.029, and S2.030**, each, shall not exceed **61.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.024, S2.026, S2.027, S2.029, and S2.030**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.024, S2.026, S2.027, S2.029, and S2.030**, each, for each calendar day.

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Section IV. Specific Operating Conditions (continued)

J. Emission Units S2.024, S2.026, S2.027, S2.029, and S2.030 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.024, S2.026, S2.027, S2.029, and S2.030** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.024, S2.026, S2.027, S2.029, and S2.030** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

J. Emission Units S2.024, S2.026, S2.027, S2.029, and S2.030 (continued)

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

a. On and after the sixtieth day after achieving the maximum production rate at which **S2.024, S2.026, S2.027, S2.029, and S2.030** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

(1) Particulate Matter emissions from **S2.024, S2.026, S2.027, S2.029, and S2.030**, combined, will not exceed **0.05 g/dscm** (0.85 lb/hr) and **7 percent** opacity for dry control devices. (40 CFR Part 60.672(b))

(2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))

b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))

c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.024, S2.026, S2.027, S2.029, and S2.030** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

K. Emission Units S2.031 through S2.033

System 10 – Kiln #1 Circuit (D-85)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.031	Kiln #1 Pre-heater PH-20	4,522,666	731,377
S2.032	Kiln #1 (K-20) and Associated Coal Mill R-92		
S2.033	Kiln #1 Lime Cooler N-21		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.031 through S2.033** shall be controlled by a **baghouse (D-85)** and **Low-NO_X Burners**.
   b. Descriptive Stack Parameters
   Stack Height: 100.0 feet
   Stack Diameter: 4.958 feet
   Stack Temperature: 350 °F
   Exhaust Flow: 60,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The **S2.032** may consume, as the primary fuel source, **coal** only, with a maximum coal sulfur content of 3.0%. The use of diesel fuel or propane is designated for startups and flame stabilization purposes during the startup and/or shut down of the **S2.032**.
   b. The maximum allowable fuel consumption rate for **S2.032** shall not exceed **5.0 tons of coal** per hour, averaged over a calendar day.
   c. The maximum allowable production rate for **S2.031 through S2.033**, each, shall not exceed **25.0** tons of **lime** per hour, averaged over a calendar day.
   d. Hours
      (1) **S2.031 through S2.033**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405, 40 CFR Part 51.308)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-85)** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **10.3** pounds per hour, nor more than **45.1** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **13.6** pounds per hour, nor more than **59.6** tons per 12-month rolling period.
      (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 **13.6** pounds per hour, nor more than **59.6** tons per 12-month rolling period.
      (4) The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **14.0** pounds per hour, nor more than **61.3** tons per 12-month rolling period.
      (5) The discharge of **NO_X** (oxides of nitrogen) to the atmosphere shall not exceed **180.0** pounds per hour, nor more than **526.0** tons per 12-month rolling period.
      (6) The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **308.0** pounds per hour, nor more than **1,349.0** tons per 12-month rolling period.
      (7) The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **4.35** pounds per hour, nor more than **19.1** tons per 12-month rolling period.
      (8) NAC 445B.22017 – The opacity from **baghouse (D-85)** shall not equal or exceed **20** percent.
      (9) NAC 445B.2203 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.032** shall not exceed **0.33** pounds per MMBtu.
      (10) NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.032** shall not exceed **91.0** pounds per MMBtu.
      (11) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.031 through S2.033**, each, shall not exceed **35.4** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

K. Emission Units S2.031 through S2.033 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405, 40 CFR Part 51.308) (continued)
   b. The Permittee, within 240 days upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-85)** the following pollutants in excess of the following specified limits:
      (1) Nevada Regional Haze SIP Limit – The discharge of **NOx** to the atmosphere shall not exceed **101.4** pounds per hour, based on a 30-day rolling average period.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Coal
      (1) Monitor and record the consumption rate of **coal** for each calendar day for **Kiln #1 Circuit** (in tons) by use of a weightometer.
      (2) Record the corresponding average hourly consumption rate in tons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
      (3) Record the consumption rate of **coal**, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   b. Lime
      (1) Monitor and record the production rate of **lime** for **Kiln #1 Circuit** for each calendar day.
      (2) Record the corresponding average hourly production rate in tons per hour. The average hourly production rate shall be determined from the total daily production and the total daily hours of operation.
      (3) Record the production rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   c. Monitor and record the hours of operation for **S2.031 through S2.033**, each, for each calendar day.
   d. Record the coal sulfur content as demonstrated and submitted by the coal supplier data for each delivery.
   e. Conduct and record an internal inspection of **Baghouse (D-85)**, including the bags, once per calendar year. In the event that **Kiln #1 Circuit** operates without prolonged shutdown for an entire calendar year, and COMS data or **Kiln #1 Circuit** indicates that **Baghouse (D-85)** is operating properly, the internal baghouse inspection or dye test may be conducted during the next prolonged shutdown that will allow safe access inside **Baghouse (D-85)**.
   f. Inspect the baghouse installed on **Kiln #1 Circuit** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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))
   h. Monitor the bag cleaning air pressure for **Baghouse D-85** every two weeks.
   i. Record any corrective actions taken to maintain the bag cleaning air pressure for **Baghouse D-85** at or above 20 psi.

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Section IV. Specific Operating Conditions (continued)

K. Emission Units S2.031 through S2.033 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

j. For the **Kiln #1 Circuit** startup:
(1) The time startup began.
(2) The time coal firing began.
(3) The time off-gases were routed through **Baghouse D-85**.
(4) **Baghouse D-85** inlet temperature when the kiln off-gases were routed through **Baghouse D-85**.
(5) Records documenting why any deviation from the best management practices plan for the **Kiln #1 Circuit** startup was necessary.
(6) Stack opacity as measured by the COMS.

k. The measured opacity (in percent opacity) from the COMS required in **Section VI.A.** of this operating permit. The opacity will be determined from reducing all data from the successive 10-second readings and recorded for each 6-minute average as required in NAC 445B.22017(1)(b), and as set forth in 40 CFR Part 60.13(h).

l. The emission rates of SO_2 in pounds per hour (lbs/hr) and parts per million (ppm) measured by the CEMS required in **Section V.A.** of this operating permit, for each averaging period described below:
(1) The SO_2 emissions in pounds per hour (lbs/hr) for each 3-hour rolling period.
(2) The following equation articulates the defining formula by which the pertinent data is calculated:

$$E_h = K * C_{hp} * Q_{hs} * \left(\frac{100 - \%H_2O}{100} \right)$$

where:

E_h = Hourly SO_2 mass emission rate during unit operation, lb/hr.

K = 1.660×10^{-7} for SO_2, (lb/scf)/ppm.

C_{hp} = Hourly average SO_2 concentration during unit operation, ppm (dry).

Q_{hs} = Hourly average volumetric flow rate during unit operation, scfh as measured (wet).

$\%H_2O$ = Hourly average stack moisture content during unit operation or constant moisture value, percent by volume.

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Section IV. Specific Operating Conditions (continued)

K. Emission Units S2.031 through S2.033 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

m. The emission rates of NO_X in pounds per hour (lbs/hr) and parts per million (ppm) measured by the CEMS required in **Section V.B.** of this operating permit, for each averaging period described below:
(1) The NO_X emissions in pounds per hour (lbs/hr) for each 30-day rolling period.
(2) The NO_X emissions in pounds per hour (lbs/hr) for each 3-hour rolling period.
(3) The following equation articulates the defining formula by which the pertinent data is calculated:

$$E_h = K * C_{hp} * Q_{hs} * \left(\frac{100 - \%H_2O}{100} \right)$$

where:

E_h = Hourly NO_X mass emission rate during unit operation, lb/hr.

K = 1.194×10^{-7} for NO_X, (lb/scf)/ppm.

C_{hp} = Hourly average NO_X concentration during unit operation, ppm (dry).

Q_{hs} = Hourly average volumetric flow rate during unit operation, scfh as measured (wet).

$\%H_2O$ = Hourly average stack moisture content during unit operation or constant moisture value, percent by volume.

n. As a result of the most recent performance tests performed in **K.5.** of this section, the permittee shall record and report emission factors for each of the following:
(1) Pounds of PM per ton of lime production (lbs-PM/ton-lime production)
(2) Pounds of PM_{10} per ton of lime production (lbs-PM_{10}/ton-lime production)
(3) Pounds of $PM_{2.5}$ per ton of lime production (lbs-$PM_{2.5}$/ton-lime production)
(4) Pounds of CO per ton of lime production (lbs-CO/ton-lime production)
(5) Pounds of VOC's per ton of lime production (lbs-VOC's/ton-lime production)

o. Record and report the annual emissions, in tons per year (tons/yr), of PM, PM_{10}, $PM_{2.5}$, CO, and VOC's from the **Kiln #1 Circuit** by multiplying the emissions, in pounds per hour (lbs/hr), determined in **K.5.** of this section by the hours of operation for each 12-month rolling period.

p. Record and report the annual emissions of SO_2, in tons per year (ton/yr), from the **Kiln #1 Circuit** by multiplying the emissions in pounds per hour, (lbs/hr), recorded by the CEMS in **Section V.A.** of this operating permit by the hours of operation for each 12-month rolling period.

q. Record and report the annual emissions of NO_X, in tons per year (ton/yr), from the **Kiln #1 Circuit** by multiplying the emissions in pounds per hour, (lbs/hr), recorded by the CEMS in **Section V.B.** of this operating permit by the hours of operation for each 12-month rolling period.

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Section IV. Specific Operating Conditions (continued)

K. Emission Units S2.031 through S2.033 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, (NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct annual performance testing within 90 days of the anniversary date of the previous initial performance testing or annual performance testing, and annually thereafter. If the previous two valid consecutive performance tests (excluding performance tests deemed invalid by the BAPC) for each pollutant are less than 50 percent of all applicable emission standards, the frequency of the required performance testing for each applicable pollutant shall be reduced to mid-point performance testing. The Permittee shall conduct and record mid-point performance testing no earlier than two years and no later than three years from renewal testing, with renewal testing to occur 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. All performance testing shall be conducted in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine 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.
   e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered $PM_{2.5}$ for determination of compliance.
   f. Method 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.
   g. 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.
   h. 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.

6. Federal Requirements
   a. Continuous Emissions Monitoring System (CEMS) – 40 CFR Part 60
      (1) The Permittee, upon issuance of this operating permit, shall comply with the SO_2 Continuous Emissions Monitoring System (CEMS) requirements set forth in **Section V** of this operating permit.
   b. New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart HH – Standards of Performance for Lime Manufacturing Plants (40 CFR Part 60.340)
      (1) Standard for Particulate Matter (40 CFR Part 60.342)
      On and after the date on which the performance test required to be conducted by 40 CFR Part 60.8 is completed, the permittee shall cause to be discharged into the atmosphere from any rotary lime kiln any gases which:
         (a) Emissions of particulate matter in excess of 0.30 kilogram per megagram (15.0 lb/hr) of stone feed. (40 CFR Part 60.342(a)(1))
         (b) Emissions from the exhaust stack of **Baghouse D-85** that exhibit greater than 15 percent opacity. (40 CFR Part 60.342(a)(2))

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Section IV. Specific Operating Conditions (continued)

K. Emission Units S2.031 through S2.033 (continued)

6. Federal Requirements (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart HH – Standards of Lime Manufacturing Plants (40 CFR Part 60.340) (continued)

c. Monitoring of Emissions and Operation (40 CFR Part 60.343)

(1) The Permittee shall calibrate, maintain, and operate a continuous monitoring system, except as provided in 40 CFR 60.343(b) and (c), to monitor and record the opacity of a representative portion of the gases discharged into the atmosphere from any rotary lime kiln. The span of this system shall be set at 40 percent opacity. (40 CFR 60.343(a))

(2) The Permittee may, in lieu of the continuous opacity monitoring requirement of 40 CFR Part 60.343(a), monitor visible emissions at least once per day of operation by using a certified visible emissions observer who, for each site where visible emissions are observed, will perform three Method 9 tests and record the results for any rotary lime kiln having a control device with a multiple stack exhaust or a roof monitor. Visible emission observations shall occur during normal operation of the rotary lime kiln at least once per day. For at least three 6-minute periods, the opacity shall be recorded for any point(s) where visible emissions are observed, and the corresponding feed rate of the kiln shall also be recorded. Records shall be maintained of any 6-minute average that is in excess of the emissions specified in 40 CFR 60.343(a). (40 CFR 60.343(b))

(3) The Permittee shall calibrate, maintain, and operate a device for measuring the mass rate of stone feed to any affected rotary lime kiln. The measuring device used must be accurate to within ±5 percent of the mass rate over its operating range. (40 CFR 60.343(d))

(4) For the purpose of reports required under 40 CFR Part 60.7(c), periods of excess emissions that shall be reported are defined as all 6-minute periods during which the average opacity of the visible emissions from any lime kiln subject to 40 CFR 60.343(a) is greater than 15 percent. If visible emission observations are made according to 40 CFR 60.343(b), reports of excess emissions shall be submitted semiannually. (40 CFR 60.343(e))

d. Test Methods and Procedures (40 CFR 60.344)

(1) In conducting the performance tests required in 40 CFR Part 60.8, the Permittee shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in 40 CFR Part 60.8(b). (40 CFR 60.344(a))

(2) The Permittee shall determine compliance with the particulate matter standards in 40 CFR 60.342(a) as follows: (40 CFR 60.344(b))

(a) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = (C_s Q_{sd})/PK)$$

where:
E = emission rate of particulate matter, kg/Mg (1b/ton) of stone feed.
C_s = concentration of particulate matter, g/dscm (gr/dscf).
Q_{sd} = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).
P = stone feed rate, Mg/hr (ton/hr).
K = conversion factor, 1000 g/kg (7000 gr/lb).

(b) Method 5 shall be used at negative-pressure fabric filters and other types of control devices and Method 5D shall be used at positive-pressure fabric filters to determine the particulate matter concentration (C_s) and the volumetric flow rate (Q_{sd}) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).

(c) The monitoring device of 40 CFR 60.343(d) shall be used to determine the stone feed rate (P) for each run.

(d) Method 9 and the procedures in 40 CFR Part 60.11 shall be used to determine opacity.

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Section IV. Specific Operating Conditions (continued)

K. Emission Units S2.031 through S2.033 (continued)

7. 40 CFR Part 64 – *Compliance Assurance Monitoring* (CAM) (40 CFR 64.1, et.seq.)
   a. Upon issuance of this operating permit, Permittee shall conduct monitoring, recordkeeping, and reporting for the controls on **S2.031 through S2.033**, as listed in Table K-1 below:

Table K-1:
Part 64 CAM Monitoring for the control on S2.031 through S2.033

CAM Performance Indicator===>	**Pressure Drop**
Measurement Approach	Pressure drop across the baghouse is measured with a differential pressure gauge.
Indicator Range	An excursion is defined as a differential pressure outside the range of 2 – 10 inches of water column. Excursions trigger an inspection and corrective action.
Measurement Locations	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.25 inches water column.
Verification of Operational Status	Annually
Quality Assurance/Quality Control	The pressure gauge is calibrated periodically per the manufacturer's specifications.
Monitoring Frequency	Pressure drop across the baghouse will be monitored and recorded daily.
Data Collection Procedures	A differential pressure reading will be recorded daily in a log.
Averaging Periods	None, single differential pressure reading.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.
Reporting	Permittee shall comply with the applicable *General Reporting Requirements* set forth in 40 CFR 64.9(a).
Recordkeeping	Permittee shall comply with the applicable *General Recordkeeping Requirements* set forth in 40 CFR 64.9(b).

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Section IV. Specific Operating Conditions

L. Emission Units PF1.027 through PF1.029

System 11 - Kiln #1 Coal Handling Circuit		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.027	Truck Dump to Coal Hopper N-90	4,522,634	731,403
PF1.028	Coal Hopper N-90 transfer to Conveyor C-90	4,522,634	731,403
PF1.029	Coal Silo T-90 Discharge to Conveyor C-92 (followed by fully enclosed transfer to Coal Mill R-92 (PF1.030))	4,522,675	731,449

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **PF1.027 and PF1.028**, each, have no add-on controls.
   b. Emissions from **PF1.029** shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.027 and PF2.028**, each, shall not exceed **200.0** tons of **coal** per hour, averaged over a calendar day.
   b. The maximum allowable throughput rate for **PF1.029** shall not exceed **5.0** tons of **coal** per hour, averaged over a calendar day.
   c. Hours
      (1) **PF1.027 through PF1.029**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.027 and PF1.028,** each, the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.40** pounds per hour, nor more than **6.13** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.50** pounds per hour, nor more than **2.19** tons per 12-month rolling period.
      (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 **0.074** pounds per hour, nor more than **0.32** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.027 and PF1.028**, each, shall not exceed **58.5** pounds per hour.
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.029** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.018** pounds per hour, nor more than **0.077** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0061** pounds per hour, nor more than **0.027** tons per 12-month rolling period.
      (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 **0.00093** pounds per hour, nor more than **0.0041** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.029** shall not exceed **12.1** pounds per hour.
   c. NAC 445B.22017 – The opacity from **PF1.027 through PF1.029**, each, shall not equal or exceed **20** percent.

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Section IV. Specific Operating Conditions (continued)

L. Emission Units PF1.027 through PF1.029 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.027 through PF1.029**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.027 through PF1.029**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.029** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the enclosure installed on **PF1.029** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.
   g. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation and Processing Plants (40 CFR Part 60.250)
   a. On and after the date on which the performance test is conducted or required to be completed under 40 CFR 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from **PF1.027 and PF1.028**, each, gases which exhibit 20 percent opacity or greater. (40 CFR 60.254(a))

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Section IV. Specific Operating Conditions (continued)

M. Emission Unit S2.035

System 12 - #1 Coal Silo T-90 (D-91)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.035	Conveyor C-90 Transfer to Coal Silo T-90	4,522,675	731,459

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.035** shall be controlled by a **baghouse (D-91)**.
   b. Descriptive Stack Parameters
      Stack Height: 92.0 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: ambient
      Exhaust Flow: 1,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.035** shall not exceed **200.0** tons of **coal** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.035** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-91)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-91)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.035** shall not exceed **58.5** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.035** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.035** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

M. Emission Unit S2.035 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.035** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.035** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation and Processing Plants (40 CFR Part 60.250)
   a. On and after the date on which the performance test is conducted or required to be completed under 40 CFR 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from **S2.035** gases which exhibit 20 percent opacity or greater. (40 CFR 60.254(a))

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Section IV. Specific Operating Conditions (continued)

N. Emission Units S2.036 through S2.038

System 13 - Kiln #2 Circuit (D-285)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.036	Kiln #2 Pre-heater PH-220	4,522,713	731,369
S2.037	Kiln #2 (K-220) and Associated Coal Mill R-292		
S2.038	Kiln #2 Lime Cooler N-221		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.036 through S2.038** shall be controlled by a **baghouse (D-285)** and **Low-NO_x Burners**.
   b. Descriptive Stack Parameters
   Stack Height: 100.0 feet
   Stack Diameter: 7.04 feet
   Stack Temperature: 350 °F
   Exhaust Flow: 70,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The **S2.037** may consume, as the primary fuel source, **coal** only, with a maximum coal sulfur content of 3.0%. The use of diesel fuel or propane is designated for startups and flame stabilization purposes during the startup and/or shut down of the **S2.037**.
   b. The maximum allowable fuel consumption rate for **S2.037** shall not exceed **7.5** tons of **coal** per hour, averaged over a calendar day.
   c. The maximum allowable production rate for **S2.036 through S2.038**, each, shall not exceed **33.3** tons of **lime** per hour, averaged over a calendar day.
   d. Hours
      (1) **S2.036 through S2.038**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405, 40 CFR Part 51.308)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-285)** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **12.0** pounds per hour, nor more than **52.6** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **15.2** pounds per hour, nor more than **66.6** tons per 12-month rolling period.
      (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 **15.2** pounds per hour, nor more than **66.6** tons per 12-month rolling period.
      (4) The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **21.0** pounds per hour, nor more than **92.0** tons per 12-month rolling period.
      (5) The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **240.0** pounds per hour, nor more than **701.0** tons per 12-month rolling period.
      (6) The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **410.0** pounds per hour, nor more than **1,796.0** tons per 12-month rolling period.
      (7) The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **6.53** pounds per hour, nor more than **28.6** tons per 12-month rolling period.
      (8) NAC 445B.22017 – The opacity from the **baghouse (D-285)** shall not equal or exceed **20** percent.
      (9) NAC 445B.2203 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.037** shall not exceed **0.30** pounds per MMBtu.
      (10) NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.037** shall not exceed **136.5** pounds per MMBtu.
      (11) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.036 through S2.038**, each, shall not exceed **40.9** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

N. Emission Units S2.036 through S2.038 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405, 40 CFR Part 51.308) (continued)
   b. The Permittee, within 240 days upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-285)** the following pollutants in excess of the following specified limits:
      (1) Nevada Regional Haze SIP Limit – The discharge of **NOx** to the atmosphere shall not exceed **107.4** pounds per hour, based on a 30-day rolling average period.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Coal
      (1) Monitor and record the consumption rate of **coal** for each calendar day for **Kiln #2 Circuit** (in tons) by use of a weightometer.
      (2) Record the corresponding average hourly consumption rate in tons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
      (3) Record the consumption rate of **coal**, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   b. Lime
      (1) Monitor and record the production rate of **lime** for **Kiln #2 Circuit** for each calendar day.
      (2) Record the corresponding average hourly production rate in tons per hour. The average hourly production rate shall be determined from the total daily production and the total daily hours of operation.
      (3) Record the production rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   c. Monitor and record the hours of operation for **S2.036 through S2.038**, each, for each calendar day.
   d. Record the coal sulfur content as demonstrated and submitted by the coal supplier data for each delivery.
   e. Conduct and record an internal inspection of **Baghouse (D-285)**, including the bags, once per calendar year. In the event that **Kiln #2 Circuit** operates without prolonged shutdown for an entire calendar year, and COMS data or **Kiln #2 Circuit** indicates that **Baghouse (D-285)** is operating properly, the internal baghouse inspection or dye test may be conducted during the next prolonged shutdown that will allow safe access inside **Baghouse (D-285)**.
   f. Inspect the baghouse installed on **Kiln #2 Circuit** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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))
   h. Monitor the bag cleaning air pressure for **Baghouse D-285** every two weeks.
   i. Record any corrective actions taken to maintain the bag cleaning air pressure for **Baghouse D-285** at or above 20 psi.

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Section IV. Specific Operating Conditions (continued)

N. Emission Units S2.036 through S2.038 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

j. For the **Kiln #2 Circuit** startup:
(1) The time startup began.
(2) The time coal firing began.
(3) The time off-gases were routed through **Baghouse D-285**.
(4) **Baghouse D-285** inlet temperature when the kiln off-gases were routed through **Baghouse D-285**.
(5) Records documenting why any deviation from the best management practices plan for the **Kiln #2 Circuit** startup was necessary.
(6) Stack opacity as measured by the COMS.

k. The measured opacity (in percent opacity) from the COMS required in **Section VI.A.** of this operating permit. The opacity will be determined from reducing all data from the successive 10-second readings and recorded for each 6-minute average as required in NAC 445B.22017(1)(b), and as set forth in 40 CFR Part 60.13(h).

l. The emission rates of SO_2 in pounds per hour (lbs/hr) and parts per million (ppm) measured by the CEMS required in **Section V.A.** of this operating permit, for each averaging period described below:
(1) The SO_2 emissions in pounds per hour (lbs/hr) for each 3-hour rolling period.
(2) The following equation articulates the defining formula by which the pertinent data is calculated:

$$E_h = K * C_{hp} * Q_{hs} * \left(\frac{100 - \%H_2O}{100} \right)$$

where:

E_h = Hourly SO_2 mass emission rate during unit operation, lb/hr.

K = 1.660×10^{-7} for SO_2, (lb/scf)/ppm.

C_{hp} = Hourly average SO_2 concentration during unit operation, ppm (dry).

Q_{hs} = Hourly average volumetric flow rate during unit operation, scfh as measured (wet).

$\%H_2O$ = Hourly average stack moisture content during unit operation or constant moisture value, percent by volume.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

N. Emission Units S2.036 through S2.038 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

m. The emission rates of NO_X in pounds per hour (lbs/hr) and parts per million (ppm) measured by the CEMS required in **Section V.B.** of this operating permit, for each averaging period described below:
(1) The NO_X emissions in pounds per hour (lbs/hr) for each 30-day rolling period.
(2) The NO_X emissions in pounds per hour (lbs/hr) for each 3-hour rolling period.
(3) The following equation articulates the defining formula by which the pertinent data is calculated:

$$E_h = K * C_{hp} * Q_{hs} * \left(\frac{100 - \%H_2O}{100} \right)$$

where:

E_h = Hourly NO_X mass emission rate during unit operation, lb/hr.

K = 1.194×10^{-7} for NO_X, (lb/scf)/ppm.

C_{hp} = Hourly average NO_X concentration during unit operation, ppm (dry).

Q_{hs} = Hourly average volumetric flow rate during unit operation, scfh as measured (wet).

$\%H_2O$ = Hourly average stack moisture content during unit operation or constant moisture value, percent by volume.

n. As a result of the most recent performance tests performed in **N.5.** of this section, the permittee shall record and report emission factors for each of the following:
(1) Pounds of PM per ton of lime production (lbs-PM/ton-lime production)
(2) Pounds of PM_{10} per ton of lime production (lbs-PM_{10}/ton-lime production)
(3) Pounds of $PM_{2.5}$ per ton of lime production (lbs-$PM_{2.5}$/ton-lime production)
(4) Pounds of CO per ton of lime production (lbs-CO/ton-lime production)
(5) Pounds of VOC's per ton of lime production (lbs-VOC's/ton-lime production)

o. Record and report the annual emissions, in tons per year (tons/yr), of PM, PM_{10}, $PM_{2.5}$, CO, and VOC's from the **Kiln #2 Circuit** by multiplying the emissions, in pounds per hour (lbs/hr), determined in **N.5.** of this section by the hours of operation for each 12-month rolling period.

p. Record and report the annual emissions of SO_2, in tons per year (ton/yr), from the **Kiln #2 Circuit** by multiplying the emissions in pounds per hour, (lbs/hr), recorded by the CEMS in **Section V.A.** of this operating permit by the hours of operation for each 12-month rolling period.

q. Record and report the annual emissions of NO_X, in tons per year (ton/yr), from the **Kiln #2 Circuit** by multiplying the emissions in pounds per hour, (lbs/hr), recorded by the CEMS in **Section V.B.** of this operating permit by the hours of operation for each 12-month rolling period.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

N. Emission Units S2.036 through S2.038 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, (NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct annual performance testing within 90 days of the anniversary date of the previous initial performance testing or annual performance testing, and annually thereafter. If the previous two valid consecutive performance tests (excluding performance tests deemed invalid by the BAPC) for each pollutant are less than 50 percent of all applicable emission standards, the frequency of the required performance testing for each applicable pollutant shall be reduced to mid-point performance testing. The Permittee shall conduct and record mid-point performance testing no earlier than two years and no later than three years from renewal testing, with renewal testing to occur 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. All performance testing shall be conducted in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine 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.
   e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered $PM_{2.5}$ for determination of compliance.
   f. Method 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.
   g. 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.
   h. 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.

6. Federal Requirements
   a. Continuous Emissions Monitoring System (CEMS) – 40 CFR Part 60
   The Permittee, upon issuance of this operating permit, shall comply with the SO_2 Continuous Emissions Monitoring System (CEMS) requirements set forth in **Section V.A.** of this operating permit.
   b. New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart HH – Standards of Lime Manufacturing Plants (40 CFR Part 60.340)
      (1) Standard for Particulate Matter (40 CFR Part 60.642)
      On and after the date on which the performance test required to be conducted by 40 CFR Part 60.8 is completed, the permittee shall cause to be discharged into the atmosphere from any rotary lime kiln any gases which:
         (a) Emissions of particulate matter in excess of 0.30 kilogram per megagram (19.98 lb/hr) of stone feed. (40 CFR Part 60.342(a)(1))
         (b) Emissions from the exhaust stack of **Baghouse D-285** that exhibit greater than 15 percent opacity. (40 CFR Part 60.342(a)(2))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

N. Emission Units S2.036 through S2.038 (continued)

6. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart HH – Standards of Lime Manufacturing Plants (40 CFR Part 60.340) (continued)

c. Monitoring of Emissions and Operation (40 CFR Part 60.343)

(1) The Permittee shall calibrate, maintain, and operate a continuous monitoring system, except as provided in 40 CFR 60.343(b) and (c), to monitor and record the opacity of a representative portion of the gases discharged into the atmosphere from any rotary lime kiln. The span of this system shall be set at 40 percent opacity. (40 CFR 60.343(a))

(2) The Permittee may, in lieu of the continuous opacity monitoring requirement of 40 CFR 60.343(a), monitor visible emissions at least once per day of operation by using a certified visible emissions observer who, for each site where visible emissions are observed, will perform three Method 9 tests and record the results for any rotary lime kiln having a control device with a multiple stack exhaust or a roof monitor. Visible emission observations shall occur during normal operation of the rotary lime kiln at least once per day. For at least three 6-minute periods, the opacity shall be recorded for any point(s) where visible emissions are observed, and the corresponding feed rate of the kiln shall also be recorded. Records shall be maintained of any 6-minute average that is in excess of the emissions specified in 40 CFR 60.343(a). (40 CFR 60.343(b))

(3) The Permittee shall calibrate, maintain, and operate a device for measuring the mass rate of stone feed to any affected rotary lime kiln. The measuring device used must be accurate to within ±5 percent of the mass rate over its operating range. (40 CFR 60.343(d))

(4) For the purpose of reports required under 40 CFR Part 60.7(c), periods of excess emissions that shall be reported are defined as all 6-minute periods during which the average opacity of the visible emissions from any lime kiln subject to 40 CFR 60.343(a) is greater than 15 percent. If visible emission observations are made according to 40 CFR 60.342(a), reports of excess emissions shall be submitted semiannually. (40 CFR 60.343(e))

d. Test Methods and Procedures (40 CFR 60.344)

(1) In conducting the performance tests required in 40 CFR Part 60.8, the Permittee shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in 40 CFR Part 60.8(b). (40 CFR 60.344(a))

(2) The Permittee shall determine compliance with the particulate matter standards in **N.6.a.(1)** as follows: (40 CFR 60.344(b))

(a) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = (C_s Q_{sd})/PK)$$

where:
E = emission rate of particulate matter, kg/Mg (1b/ton) of stone feed.
C_s = concentration of particulate matter, g/dscm (gr/dscf).
Q_{sd} = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).
P = stone feed rate, Mg/hr (ton/hr).
K = conversion factor, 1000 g/kg (7000 gr/lb).

(b) Method 5 shall be used at negative-pressure fabric filters and other types of control devices and Method 5D shall be used at positive-pressure fabric filters to determine the particulate matter concentration (C_s) and the volumetric flow rate (Q_{sd}) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).

(c) The monitoring device of 40 CFR 60.343(d) shall be used to determine the stone feed rate (P) for each run.

(d) Method 9 and the procedures in 40 CFR Part 60.11 shall be used to determine opacity.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

N. Emission Units S2.036 through S2.038 (continued)

7. 40 CFR Part 64 – *Compliance Assurance Monitoring* (CAM) (40 CFR 64.1, et.seq.)
   a. Upon issuance of this operating permit, Permittee shall conduct monitoring, recordkeeping, and reporting for the controls on **S2.036 through S2.038**, as listed in Table N-1 below:

Table N-1:
Part 64 CAM Monitoring for the control on S2.036 through S2.038

CAM Performance Indicator===>	**Pressure Drop**
Measurement Approach	Pressure drop across the baghouse is measured with a differential pressure gauge.
Indicator Range	An excursion is defined as a differential pressure outside the range of 2 – 10 inches of water column. Excursions trigger an inspection and corrective action.
Measurement Locations	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.25 inches water column.
Verification of Operational Status	Annually
Quality Assurance/Quality Control	The pressure gauge is calibrated periodically per the manufacturer's specifications.
Monitoring Frequency	Pressure drop across the baghouse will be monitored and recorded daily.
Data Collection Procedures	A differential pressure reading will be recorded daily in a log.
Averaging Periods	None, single differential pressure reading.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.
Reporting	Permittee shall comply with the applicable *General Reporting Requirements* set forth in 40 CFR 64.9(a).
Recordkeeping	Permittee shall comply with the applicable *General Recordkeeping Requirements* set forth in 40 CFR 64.9(b).

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

O. Emission Unit S2.037.1

System 13a - Kiln #2 Circuit (D-282)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.037.1	Kiln #2 K-220 Cyclone Bin N-280	4,522,701	731,377

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.037.1** shall be controlled by a **baghouse (D-282)**.
   b. Descriptive Stack Parameters
      Stack Height: 32.0 feet
      Stack Diameter: 0.5 feet
      Stack Temperature: 68 ºF
      Exhaust Flow: 1,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.037.1** shall not exceed **200.0** tons of **cyclone dust** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.037.1** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-282)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-282)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.037.1** shall not exceed **58.5** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.037.1** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.037.1** for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

O. Emission Unit S2.037.1 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.037.1** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

f. Inspect the baghouse installed on **S2.037.1** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

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Section IV. Specific Operating Conditions

P. Emission Units PF1.031 and PF1.032

System 14 - Kiln #2 Coal Handling Circuit		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.031	Conveyor C-90 Transfer to Conveyor C-290	4,522,675	731,459
PF1.032	Coal Silo T-290 Discharge to Conveyor C-292 (followed by fully enclosed transfer to coal mill R-292 via Conveyor C-292 (PF1.033))	4,522,689	731,451

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **PF1.031** has no add-on controls.
   b. Emissions from **PF1.032** shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.031** shall not exceed **200.0** tons of **coal** per hour, averaged over a calendar day.
   b. The maximum allowable throughput rate for **PF1.032** shall not exceed **7.5** tons of **coal** per hour, averaged over a calendar day.
   c. Hours
      (1) **PF1.031 and PF1.032**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.031** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.40** pounds per hour, nor more than **6.13** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.50** pounds per hour, nor more than **2.19** tons per 12-month rolling period.
      (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 **0.074** pounds per hour, nor more than **0.32** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.031** shall not exceed **58.5** pounds per hour.
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.032** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.026** pounds per hour, nor more than **0.11** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0094** pounds per hour, nor more than **0.041** tons per 12-month rolling period.
      (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 **0.0014** pounds per hour, nor more than **0.0062** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.032** shall not exceed **15.8** pounds per hour.
   c. NAC 445B.22017 – The opacity from **PF1.031 and PF1.032**, each, shall not equal or exceed **20** percent.

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Section IV. Specific Operating Conditions (continued)

P. Emission Units PF1.031 and PF1.032 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.031 and PF1.032**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.031 and PF1.032**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.032** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the enclosure installed on **PF1.032** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.
   g. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation and Processing Plants (40 CFR Part 60.250)
   a. On and after the date on which the performance test is conducted or required to be completed under 40 CFR 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from **PF1.031** gases which exhibit 20 percent opacity or greater. (40 CFR Part 60.254(a))

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Section IV. Specific Operating Conditions (continued)

Q. Emission Unit S2.039

System 15 - Kiln #2 Coal Silo T-290 (D-291)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.039	Conveyor C-290 Transfer to Coal Silo T-290	4,522,684	731,460

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.039** shall be controlled by a **baghouse (D-291)**.
   b. Descriptive Stack Parameters
      Stack Height: 92.0 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: ambient
      Exhaust Flow: 1,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.039** shall not exceed **200.0** tons of **coal** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.039** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-291)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-291)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.039** shall not exceed **58.5** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.039** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.039** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

Q. Emission Unit S2.039 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.039** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.039** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation and Processing Plants (40 CFR Part 60.250)
   a. On and after the date on which the performance test is conducted or required to be completed under 40 CFR 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from **S2.039**, gases which exhibit 20 percent opacity or greater. (40 CFR Part 60.254(a))

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Section IV. Specific Operating Conditions (continued)

R. Emission Unit S2.041

System 16 - Lime Plant Stone Feed to Kiln #3 (D-382)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.041	Kiln #3 Conveyor C-314 transfer to Pre-heater PH-321	4,522,562	731,431

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.041** shall be controlled by a **baghouse (D-382)**.
   b. Descriptive Stack Parameters
      Stack Height: 53.0 feet
      Stack Diameter: 0.7 feet
      Stack Temperature: 68 ºF
      Exhaust Flow: 1,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.041** shall not exceed **250.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.041** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-382)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-382)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.041** shall not exceed **61.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.041** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.041** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

R. Emission Unit S2.041 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.041** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.041** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **S2.041** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Particulate Matter emissions from **S2.041** will not exceed **0.05 g/dscm** (0.28 lb/hr) and **7 percent** opacity for dry control devices. (40 CFR Part 60.672(b))
      (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction, and as otherwise provided in the applicable standard. (40 CFR 60.11(c))
   b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.041** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

S. Emission Units S2.042 through S2.044

System 17 - Kiln #3 Circuit (D-385)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.042	Kiln #3 Pre-heater PH-321	4,522,532	731,431
S2.043	Kiln #3 (K-321) and Associated Coal Mill R-392		
S2.044	Kiln #3 Lime Cooler N-332		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.042 through S2.044** shall be controlled by a **baghouse (D-385)** and **Low-NO_x Burners**.
   b. Descriptive Stack Parameters
   Stack Height: 181.0 feet
   Stack Diameter: 7.04 feet
   Stack Temperature: 350 °F
   Exhaust Flow: 100,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The **S2.043** may consume, as the primary fuel source, **coal** only, with a maximum coal sulfur content of 3.0%. The use of diesel fuel or propane is designated for startups and flame stabilization purposes during the startup and/or shut down of the **S2.043**.
   b. The maximum allowable fuel consumption rate for **S2.043** shall not exceed **12.0** tons of **coal** per hour, averaged over a calendar day.
   c. The maximum allowable throughput rate for **S2.042 through S2.044**, each, shall not exceed **50.0** tons of **lime** per hour, averaged over a calendar day.
   d. Hours
      (1) **S2.042 through S2.044**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405, 40 CFR Part 51.308)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-385)** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **17.1** pounds per hour, nor more than **75.1** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **23.7** pounds per hour, nor more than **103.8** tons per 12-month rolling period.
      (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 **23.7** pounds per hour, nor more than **103.8** tons per 12-month rolling period.
      (4) The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **33.0** pounds per hour, nor more than **144.5** tons per 12-month rolling period.
      (5) The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **300.0** pounds per hour, nor more than **876.0** tons per 12-month rolling period.
      (6) The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **512.5** pounds per hour, nor more than **2,245.0** tons per 12-month rolling period.
      (7) The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **10.4** pounds per hour, nor more than **45.7** tons per 12-month rolling period.
      (8) NAC 445B.22017 – The opacity from the **baghouse (D-385)** shall not equal or exceed **20** percent.
      (9) NAC 445B.2203 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.043** shall not exceed **0.27** pounds per MMBtu.
      (10) NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.043** shall not exceed **187.2** pounds per MMBtu.
      (11) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.042 through S2.044**, each, shall not exceed **44.6** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

S. Emission Units S2.042 through S2.044 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405, 40 CFR Part 51.308) (continued)
   b. The Permittee, within 240 days upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-385)** the following pollutants in excess of the following specified limits:
      (1) Nevada Regional Haze SIP Limit – The discharge of **NOx** to the atmosphere shall not exceed **143.7** pounds per hour, based on a 30-day rolling average period.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Coal
      (1) Monitor and record the consumption rate of **coal** for each calendar day for **Kiln #3 Circuit** (in tons) by use of a weightometer.
      (2) Record the corresponding average hourly consumption rate in tons per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
      (3) Record the consumption rate of **coal**, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   b. Lime
      (1) Monitor and record the production rate of **lime** for **Kiln #3 Circuit** for each calendar day.
      (2) Record the corresponding average hourly production rate in tons per hour. The average hourly production rate shall be determined from the total daily production and the total daily hours of operation.
      (3) Record the production rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   c. Monitor and record the hours of operation for **S2.042 through S2.044**, each, for each calendar day.
   d. Record the coal sulfur content as demonstrated and submitted by the coal supplier data for each delivery.
   e. Conduct and record an internal inspection of **Baghouse (D-385)**, including the bags, once per calendar year. In the event that **Kiln #3 Circuit** operates without prolonged shutdown for an entire calendar year, and COMS data or **Kiln #3 Circuit** indicates that **Baghouse (D-385)** is operating properly, the internal baghouse inspection or dye test may be conducted during the next prolonged shutdown that will allow safe access inside **Baghouse (D-385)**.
   f. Inspect the baghouse installed on **Kiln #3 Circuit** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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))
   h. Monitor the bag cleaning air pressure for **Baghouse D-385** every two weeks.
   i. Record any corrective actions taken to maintain the bag cleaning air pressure for **Baghouse D-385** at or above 20 psi.

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Section IV. Specific Operating Conditions (continued)

S. Emission Units S2.042 through S2.044 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

j. For the **Kiln #3 Circuit** startup:
(1) The time startup began.
(2) The time coal firing began.
(3) The time off-gases were routed through **Baghouse D-385**.
(4) **Baghouse D-385** inlet temperature when the kiln off-gases were routed through **Baghouse D-385**.
(5) Records documenting why any deviation from the best management practices plan for the **Kiln #3 Circuit** startup was necessary.
(6) Stack opacity as measured by the COMS.

k. The measured opacity (in percent opacity) from the COMS required in **Section VI.A.** of this operating permit. The opacity will be determined from reducing all data from the successive 10-second readings and recorded for each 6-minute average as required in NAC 445B.22017(1)(b), and as set forth in 40 CFR Part 60.13(h).

l. The emission rates of SO_2 in pounds per hour (lbs/hr) and parts per million (ppm) measured by the CEMS required in **Section V.A.** of this operating permit, for each averaging period described below:
(1) The SO_2 emissions in pounds per hour (lbs/hr) for each 3-hour rolling period.
(2) The following equation articulates the defining formula by which the pertinent data is calculated:

$$E_h = K * C_{hp} * Q_{hs} * \left(\frac{100 - \%H_2O}{100} \right)$$

where:

E_h = Hourly SO_2 mass emission rate during unit operation, lb/hr.

K = 1.660×10^{-7} for SO_2, (lb/scf)/ppm.

C_{hp} = Hourly average SO_2 concentration during unit operation, ppm (dry).

Q_{hs} = Hourly average volumetric flow rate during unit operation, scfh as measured (wet).

$\%H_2O$ = Hourly average stack moisture content during unit operation or constant moisture value, percent by volume.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

S. Emission Units S2.042 through S2.044 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

m. The emission rates of NO_X in pounds per hour (lbs/hr) and parts per million (ppm) measured by the CEMS required in **Section V.B.** of this operating permit, for each averaging period described below:
(1) The NO_X emissions in pounds per hour (lbs/hr) for each 30-day rolling period.
(2) The NO_X emissions in pounds per hour (lbs/hr) for each 3-hour rolling period.
(3) The following equation articulates the defining formula by which the pertinent data is calculated:

$$E_h = K * C_{hp} * Q_{hs} * \left(\frac{100 - \%H_2O}{100} \right)$$

where:

E_h = Hourly NO_X mass emission rate during unit operation, lb/hr.

K = 1.194×10^{-7} for NO_X, (lb/scf)/ppm.

C_{hp} = Hourly average NO_X concentration during unit operation, ppm (dry).

Q_{hs} = Hourly average volumetric flow rate during unit operation, scfh as measured (wet).

$\%H_2O$ = Hourly average stack moisture content during unit operation or constant moisture value, percent by volume.

n. As a result of the most recent performance tests performed in **S.5.** of this section, the permittee shall record and report emission factors for each of the following:
(1) Pounds of PM per ton of lime production (lbs-PM/ton-lime production)
(2) Pounds of PM_{10} per ton of lime production (lbs-PM_{10}/ton-lime production)
(3) Pounds of $PM_{2.5}$ per ton of lime production (lbs-$PM_{2.5}$/ton-lime production)
(4) Pounds of CO per ton of lime production (lbs-CO/ton-lime production)
(5) Pounds of VOC's per ton of lime production (lbs-VOC's/ton-lime production)

o. Record and report the annual emissions, in tons per year (tons/yr), of PM, PM_{10}, $PM_{2.5}$, CO, and VOC's from the **Kiln #3 Circuit** by multiplying the emissions, in pounds per hour (lbs/hr), determined in **S.5.** of this section by the hours of operation for each 12-month rolling period.

p. Record and report the annual emissions of SO_2, in tons per year (ton/yr), from the **Kiln #3 Circuit** by multiplying the emissions in pounds per hour, (lbs/hr), recorded by the CEMS in **Section V.A.** of this operating permit by the hours of operation for each 12-month rolling period.

q. Record and report the annual emissions of NO_X, in tons per year (ton/yr), from the **Kiln #3 Circuit** by multiplying the emissions in pounds per hour, (lbs/hr), recorded by the CEMS in **Section V.B.** of this operating permit by the hours of operation for each 12-month rolling period.

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Section IV. Specific Operating Conditions (continued)

S. Emission Units S2.042 through S2.044 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, (NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct annual performance testing within 90 days of the anniversary date of the previous initial performance testing or annual performance testing, and annually thereafter. If the previous two valid consecutive performance tests (excluding performance tests deemed invalid by the BAPC) for each pollutant are less than 50 percent of all applicable emission standards, the frequency of the required performance testing for each applicable pollutant shall be reduced to mid-point performance testing. The Permittee shall conduct and record mid-point performance testing no earlier than two years and no later than three years from renewal testing, with renewal testing to occur 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. All performance testing shall be conducted in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine 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.
   e. The Method 201A and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered $PM_{2.5}$ for determination of compliance.
   f. Method 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.
   g. 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.
   h. 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.

6. Federal Requirements
   a. Continuous Emissions Monitoring System (CEMS) – 40 CFR Part 60
   The Permittee, upon issuance of this operating permit, shall comply with the SO_2 Continuous Emissions Monitoring System (CEMS) requirements set forth in **Section V.A.** of this operating permit.
   b. New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart HH – Standards of Lime Manufacturing Plants (40 CFR Part 60.340)
      (1) Standard for Particulate Matter (40 CFR Part 60.642)
      On and after the date on which the performance test required to be conducted by 40 CFR Part 60.8 is completed, the permittee shall cause to be discharged into the atmosphere from any rotary lime kiln any gases which:
         (a) Emissions of particulate matter in excess of 0.30 kilogram per megagram (30.0 lb/hr) of stone feed. (40 CFR Part 60.342(a)(1))
         (b) Emissions from the exhaust stack of **Baghouse D-385** that exhibit greater than 15 percent opacity. (40 CFR Part 60.342(a)(2))

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Section IV. Specific Operating Conditions (continued)

S. Emission Units S2.042 through S2.044 (continued)

6. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart HH – Standards of Lime Manufacturing Plants (40 CFR Part 60.340) (continued)

c. Monitoring of Emissions and Operation (40 CFR Part 60.343)

(1) The Permittee shall calibrate, maintain, and operate a continuous monitoring system, except as provided in 40 CFR 60.343(b) and (c), to monitor and record the opacity of a representative portion of the gases discharged into the atmosphere from any rotary lime kiln. The span of this system shall be set at 40 percent opacity. (40 CFR 60.343(a))

(2) The Permittee may, in lieu of the continuous opacity monitoring requirement of 40 CFR 60.343(a), monitor visible emissions at least once per day of operation by using a certified visible emissions observer who, for each site where visible emissions are observed, will perform three Method 9 tests and record the results for any rotary lime kiln having a control device with a multiple stack exhaust or a roof monitor. Visible emission observations shall occur during normal operation of the rotary lime kiln at least once per day. For at least three 6-minute periods, the opacity shall be recorded for any point(s) where visible emissions are observed, and the corresponding feed rate of the kiln shall also be recorded. Records shall be maintained of any 6-minute average that is in excess of the emissions specified in 40 CFR 60.343(a). (40 CFR 60.343(b))

(3) The Permittee shall calibrate, maintain, and operate a device for measuring the mass rate of stone feed to any affected rotary lime kiln. The measuring device used must be accurate to within ±5 percent of the mass rate over its operating range. (40 CFR 60.343(d))

(4) For the purpose of reports required under 40 CFR Part 60.7(c), periods of excess emissions that shall be reported are defined as all 6-minute periods during which the average opacity of the visible emissions from any lime kiln subject to 40 CFR 60.343(a) is greater than 15 percent. If visible emission observations are made according to 40 CFR 60.342(a), reports of excess emissions shall be submitted semiannually. (40 CFR 60.343(e))

d. Test Methods and Procedures (40 CFR 60.344)

(1) In conducting the performance tests required in 40 CFR Part 60.8, the Permittee shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in 40 CFR Part 60.8(b). (40 CFR 60.344(a))

(2) The Permittee shall determine compliance with the particulate matter standards in **S.6.a.(1)** as follows: (40 CFR 60.344(b))

(a) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = (C_s Q_{sd})/PK)$$

where:
E = emission rate of particulate matter, kg/Mg (1b/ton) of stone feed.
C_s = concentration of particulate matter, g/dscm (gr/dscf).
Q_{sd} = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).
P = stone feed rate, Mg/hr (ton/hr).
K = conversion factor, 1000 g/kg (7000 gr/lb).

(b) Method 5 shall be used at negative-pressure fabric filters and other types of control devices and Method 5D shall be used at positive-pressure fabric filters to determine the particulate matter concentration (C_s) and the volumetric flow rate (Q_{sd}) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).

(c) The monitoring device of 40 CFR 60.343(d) shall be used to determine the stone feed rate (P) for each run.

(d) Method 9 and the procedures in 40 CFR Part 60.11 shall be used to determine opacity.

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Section IV. Specific Operating Conditions (continued)

S. Emission Units S2.042 through S2.044 (continued)

7. 40 CFR Part 64 – *Compliance Assurance Monitoring* (CAM) (40 CFR 64.1, et.seq.)
   a. Upon issuance of this operating permit, Permittee shall conduct monitoring, recordkeeping, and reporting for the controls on **S2.042 through S2.044**, as listed in Table S-1 below:

Table S-1:
Part 64 CAM Monitoring for the control on S2.042 through S2.044

CAM Performance Indicator===>	**Pressure Drop**
Measurement Approach	Pressure drop across the baghouse is measured with a differential pressure gauge.
Indicator Range	An excursion is defined as a differential pressure outside the range of 2 – 10 inches of water column. Excursions trigger an inspection and corrective action.
Measurement Locations	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.25 inches water column.
Verification of Operational Status	Annually
Quality Assurance/Quality Control	The pressure gauge is calibrated periodically per the manufacturer's specifications.
Monitoring Frequency	Pressure drop across the baghouse will be monitored and recorded daily.
Data Collection Procedures	A differential pressure reading will be recorded daily in a log.
Averaging Periods	None, single differential pressure reading.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.
Reporting	Permittee shall comply with the applicable *General Reporting Requirements* set forth in 40 CFR 64.9(a).
Recordkeeping	Permittee shall comply with the applicable *General Recordkeeping Requirements* set forth in 40 CFR 64.9(b).

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Section IV. Specific Operating Conditions

T. Emission Units PF1.034 and PF1.035

System 18 - Kiln #3 Coal Handling Circuit		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.034	Conveyor C-90 Transfer to Conveyor C-391	4,522,674	731,458
PF1.035	Coal Silo T-391 Discharge to Conveyor C-392 (followed by fully enclosed transfer to Coal Mill R-392 via conveyor C-392 (PF1.036))	4,522,650	731,445

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **PF1.034** has no add-on controls.
   b. Emissions from **PF1.035** shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.034** shall not exceed **200.0** tons of **coal** per hour, averaged over a calendar day.
   b. The maximum allowable throughput rate for **PF1.035** shall not exceed **12.0** tons of **coal** per hour, averaged over a calendar day.
   c. Hours
      (1) **PF1.034 and PF1.035**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.034** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.40** pounds per hour, nor more than **6.13** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.50** pounds per hour, nor more than **2.19** tons per 12-month rolling period.
      (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 **0.074** pounds per hour, nor more than **0.32** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.034** shall not exceed **58.5** pounds per hour.
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.035** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.042** pounds per hour, nor more than **0.18** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.015** pounds per hour, nor more than **0.066** tons per 12-month rolling period.
      (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 **0.0023** pounds per hour, nor more than **0.010** tons per 12-month rolling period.
      (4) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.035** shall not exceed **21.7** pounds per hour.
   c. NAC 445B.22017 – The opacity from **PF1.034 and PF1.035**, each, shall not equal or exceed **20** percent.

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Section IV. Specific Operating Conditions (continued)

T. Emission Units PF1.034 and PF1.035 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.034 and PF1.035**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.034 and PF1.035**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.035** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the enclosure installed on **PF1.035** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall initiate corrective action within 24 hours and complete corrective action as expediently as practical to ensure that the enclosure is functioning properly. The Permittee must record each inspection of the enclosures, including the date of each inspection and any corrective actions taken.
   g. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation and Processing Plants (40 CFR Part 60.250)
   a. On and after the date on which the performance test is conducted or required to be completed under 40 CFR 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from **PF1.034 and PF1.035**, each, gases which exhibit 20 percent opacity or greater. (40 CFR Part 60.254(a))

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Section IV. Specific Operating Conditions (continued)

U. Emission Unit S2.045

System 19 - Kiln #3 Coal Silo T-391		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.045	Conveyor C-391 transfer to Coal Silo T-391	4,522,658	731,450

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.045** shall be controlled by a **baghouse (D-391)**.
   b. Descriptive Stack Parameters
      Stack Height: 96.0 feet
      Stack Diameter: 1.3 feet
      Stack Temperature: ambient
      Exhaust Flow: 1,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.045** shall not exceed **200.0** tons of **coal** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.045** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-391)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-391)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.045** shall not exceed **58.5** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.045** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.045** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

U. Emission Unit S2.045 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.045** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation and Processing Plants (40 CFR Part 60.250)
   a. On and after the date on which the performance test is conducted or required to be completed under 40 CFR 60.8, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from **S2.045**, gases which exhibit 20 percent opacity or greater. (40 CFR Part 60.254(a))

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Section IV. Specific Operating Conditions (continued)

V. System 20

System 20 - Product Lime Loadout from Kiln #1 D-82		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.047	Kiln #1 Lime Cooler N-21 transfer to Conveyor C-30	4,522,669	731,457
S2.048	Conveyor C-30 Transfer to Bucket Elevator E-30		
S2.051	Gate G-36 transfer to Kiln Run Silo T-40 (Silo T-40 Discharges via Fully Enclosed Transfer (S2.052))		
S2.053	Feeder F-50 Transfer to Conveyor C-50		
S2.054	Crusher R-50 and Associated Transfers (IN from Conveyor C-50; OUT to Gate G-55 (S2.055))		
S2.056	Gate G-55 Transfer to Bucket Elevator E-30		
S2.057	Gate G-36 Transfer to Core Bin N-30		
S2.058	Core Bin N-30 Discharge to Loadout		
S2.067	Loadout Silo T-42 Discharge to Loadout		
S2.072	Conveyor C-231 Transfer to Bucket Elevator E-32		
S2.074	Conveyor C-42 Transfer to Loadout Silo T-42		
S2.075	Conveyor C-44 Transfer to Loadout Silo T-44 (Silo T-44 Discharges via Fully Enclosed Transfer Point to Conveyor C-61 (S2.109))		
S2.077	Gate G-43 transfer to Kiln Run Silo T-40		
S2.088	Gate G-39 Transfer to Kiln Run Silo T-40		
S2.089	Gate G-39 Transfer to Core Bin N-30		
S2.092	Gate G-37 Transfer to Core Bin N-30		
S2.099	Gate G-44 Transfer to Kiln Run Silo T-40		
S2.103	Conveyor C-51 Transfer to Conveyor C-50		
S2.104	Gate G-55 Transfer to Bucket Elevator E-31		
S2.106	Conveyor C-52 Discharge to Loadout		
S2.108	Conveyor C-60 Discharge to Loadout		
S2.110	Conveyor C-61 Discharge to Loadout		
S2.111	Loadout Silo T-44 Discharge to Loadout		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **System 20** shall be controlled by a **baghouse (D-82)**.
   b. Descriptive Stack Parameters
      Stack Height: 57.0 feet
      Stack Diameter: 1.958 feet
      Stack Temperature: 81 °F
      Exhaust Flow: 15,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **each emission unit in System 20** shall not exceed **200.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **Each emission unit in System 20** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-82)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **2.57** pounds per hour, nor more than **11.3** tons per 12-month rolling period.

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Section IV. Specific Operating Conditions (continued)

V. System 20 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405) (continued)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-82)** the following pollutants in excess of the following specified limits:
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **2.57** pounds per hour, nor more than **11.3** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **2.57** pounds per hour, nor more than **11.3** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse D-82** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **each emission unit in System 20** shall not exceed **58.5** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **each unit in System 20** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **each unit in System 20** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **System 20** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **System 20** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. Annually, conduct and record an internal inspection of **Baghouse (D-82)**, including the bags.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.

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Section IV. Specific Operating Conditions (continued)

V. System 20 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1)) (continued)
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   e. 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.
   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.

6. 40 CFR Part 64 – *Compliance Assurance Monitoring* (CAM) (40 CFR 64.1, et.seq.)
   a. Upon issuance of this operating permit, Permittee shall conduct monitoring, recordkeeping, and reporting for the controls on **System 20**, as listed in Table V-1 below:

Table V-1:
Part 64 CAM Monitoring for the control on System 20

CAM Performance Indicator===>	**Pressure Drop**
Measurement Approach	Pressure drop across the baghouse is measured with a differential pressure gauge.
Indicator Range	An excursion is defined as a differential pressure outside the range of 0.5 – 10 inches of water column. Excursions trigger an inspection and corrective action.
Measurement Locations	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.25 inches water column.
Verification of Operational Status	Annually
Quality Assurance/Quality Control	The pressure gauge is calibrated periodically per the manufacturer's specifications.
Monitoring Frequency	Pressure drop across the baghouse will be monitored and recorded daily.
Data Collection Procedures	A differential pressure reading will be recorded daily in a log.
Averaging Periods	None, single differential pressure reading.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.
Reporting	Permittee shall comply with the applicable *General Reporting Requirements* set forth in 40 CFR 64.9(a).
Recordkeeping	Permittee shall comply with the applicable *General Recordkeeping Requirements* set forth in 40 CFR 64.9(b).

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Section IV. Specific Operating Conditions (continued)

W. Emission Units S2.068 through S2.071 and S2.078 through S2.080

System 21 - Product Lime Loadout from Kiln #2		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.068	Kiln #2 Lime Cooler N-221 Transfer to Conveyor C-230	4,522,684	731,465
S2.069	Conveyor C-230 Transfer to Bucket Elevator E-230		
S2.070	Mill R-250 and Associated Transfers (IN from Screen S-230 and Gate-236; OUT to Bucket Elevator E-230)		
S2.071	Gate G-236 Transfer to Conveyor C-231		
S2.078	Bucket Elevator E-230 Transfer to Gate G-235		
S2.079	Gate G-235 Transfer to Screw Conveyor C-231		
S2.080	Screen S-230 and Associated Transfers (IN from Gate G-235; OUT to Mill R-250, Gate G-236, and Conveyor C-231)		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.068 through S2.071 and S2.078 through S2.080** shall be controlled by a **baghouse (D-230)**.
   b. Descriptive Stack Parameters
      Stack Height: 57.0 feet
      Stack Diameter: 1.125 feet
      Stack Temperature: 81 °F
      Exhaust Flow: 8,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.068 through S2.071 and S2.078 through S2.080**, each, shall not exceed **66.7** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.068 through S2.071 and S2.078 through S2.080**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-230)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.37** pounds per hour, nor more than **6.01** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.37** pounds per hour, nor more than **6.01** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **1.37** pounds per hour, nor more than **6.01** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-230)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.068 through S2.071 and S2.078 through S2.080**, each, shall not exceed **47.3** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.068 through S2.071 and S2.078 through S2.080**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.

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Section IV. Specific Operating Conditions (continued)

W. Emission Units S2.068 through S2.071 and S2.078 through S2.080 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   d. Monitor and record the hours of operation for **S2.068 through S2.071 and S2.078 through S2.080**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.068 through S2.071 and S2.078 through S2.080** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.068 through S2.071 and S2.078 through S2.080** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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 IV. Specific Operating Conditions (continued)

X. System 22

System 22 - Product Lime Loadout from Kiln #2 (DC-30)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.050	Screen S-30 and Associated Transfers (IN from Gate G-36 and G-37 (S2.093); OUT to Conveyor C-42 or C-43 via Gate G-41 and Gate G-42 (S2.059); OUT to Conveyor C-42 or Screen S-30 Transfer to Kiln Run Silo T-40 (S2.062))	4,522,659	731,471
S2.060	Conveyor C-43 transfer to Silo T-43 (Silo T-43 Discharges via Fully Enclosed Transfer to Conveyor C-52 or Conveyor C-60 (S2.061 or S2.107))		
S2.076	Conveyor C-41 Transfer to Kiln Run Silo T-41 (Silo T-41 Discharges Through Fully Enclosed Transfers to Either Conveyor C-51 or Conveyor C-52 (S2.102 or S2.105))		
S2.081	Bucket Elevator E-32 Transfer to Gate G-38		
S2.082	Screen S-31 and Associated Transfers (IN from Gate G-38 and Gate G-37 (S2.091); OUT to Screw Conveyor C-42 (S2.094), Gate G-44 (S2.096), and Gate G-43 (S2.100))		
S2.083	Gate G-38 to Gate G-39		
S2.084	Gate G-38 Transfer to Conveyor C-42		
S2.085	Gate G-35 Transfer to Gate G-36 OR Gate G-35 Transfer to Screen S-31		
S2.086	Bucket Elevator E-30 Transfer to Gate G-35		
S2.087	Gate G-39 Transfer to Kiln Run Silo T-41		
S2.090	Bucket Elevator E-31 Transfer to Gate G-37		
S2.097	Gate G-44 Transfer to Screw Conveyor C-42 (Screw Conveyor C-42 Transfers to Conveyor C-44 via Fully Enclosed Transfer (S2.066))		
S2.098	Gate G-44 Transfer to Conveyor C-43		
S2.101	Gate-43 Transfer to Conveyor C-41		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **System 22** shall be controlled by a **baghouse (D-30)**.
   b. Descriptive Stack Parameters
      Stack Height: 78.0 feet
      Stack Diameter: 1.262 feet
      Stack Temperature: 81 °F
      Exhaust Flow: 9,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **each emission unit in System 22** shall not exceed **200.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **Each emission unit in System 22** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-30)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.54** pounds per hour, nor more than **6.76** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.54** pounds per hour, nor more than **6.76** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **1.54** pounds per hour, nor more than **6.76** tons per 12-month rolling period.

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Section IV. Specific Operating Conditions (continued)

X. System 22 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405) (continued)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of (D-30)** the following pollutants in excess of the following specified limits:
   d. NAC 445B.22017 – The opacity from **baghouse (D-30)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **each emission unit in System 22** shall not exceed **58.5** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **each unit in System 22** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **each unit in System 22** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **System 22** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **System 22** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. Annually, conduct and record an internal inspection of **Baghouse (D-30)**, including the bags.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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 IV. Specific Operating Conditions (continued)

X. System 22 (continued)

6. 40 CFR Part 64 – *Compliance Assurance Monitoring* (CAM) (40 CFR 64.1, et.seq.)
   a. Upon issuance of this operating permit, Permittee shall conduct monitoring, recordkeeping, and reporting for the controls on **System 22**, as listed in **Table X-1** below:

Table X-1:
Part 64 CAM Monitoring for the control on System 22

CAM Performance Indicator===>	**Pressure Drop**
Measurement Approach	Pressure drop across the baghouse is measured with a differential pressure gauge.
Indicator Range	An excursion is defined as a differential pressure outside the range of 0.5 – 10 inches of water column. Excursions trigger an inspection and corrective action.
Measurement Locations	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.25 inches water column.
Verification of Operational Status	Annually
Quality Assurance/Quality Control	The pressure gauge is calibrated periodically per the manufacturer's specifications.
Monitoring Frequency	Pressure drop across the baghouse will be monitored and recorded daily.
Data Collection Procedures	A differential pressure reading will be recorded daily in a log.
Averaging Periods	None, single differential pressure reading.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.
Reporting	Permittee shall comply with the applicable *General Reporting Requirements* set forth in 40 CFR 64.9(a).
Recordkeeping	Permittee shall comply with the applicable *General Recordkeeping Requirements* set forth in 40 CFR 64.9(b).

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Section IV. Specific Operating Conditions

Y. Emission Unit PF1.038

System 23 - Kiln #1 and Kiln #2 Cyclone/Baghouse Fines Silo Discharge		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.038	Fine Dust Silo T-89 to Pugmill (includes discharge of saturated material from pugmill into truck (PF1.038.1))	4,522,649	731,379

1. Air Pollution Control Equipment (NAC 445B.3405)
   Emissions from **PF1.038** shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.038** shall not exceed **58.3** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.038** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.038** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.14** pounds per hour, nor more than **0.61** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.082** pounds per hour, nor more than **0.36** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.012** pounds per hour, nor more than **0.051** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.038** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.038** shall not exceed **46.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.038** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.038** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.038** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the enclosure installed on **PF1.038** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.

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Section IV. Specific Operating Conditions (continued)

Z. Emission Unit S2.113

System 24 - Kiln #1 and Kiln #2 Cyclone/Baghouse Product Loadout (D-89)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.113	Process Baghouse Transfer to Fine Dust Silo T-89 via Conveyor C-285 and Conveyor C-85	4,522,649	731,379

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.113** shall be controlled by a **baghouse (D-89)**.
   b. Descriptive Stack Parameters
      Stack Height: 84.0 feet
      Stack Diameter: 1.05 feet
      Stack Temperature: 120 °F
      Exhaust Flow: 4,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.113** shall not exceed **58.3** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.113** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-89)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.69** pounds per hour, nor more than **3.00** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.69** pounds per hour, nor more than **3.00** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.69** pounds per hour, nor more than **3.00** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-89)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.113** shall not exceed **46.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.113** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.113** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

Z. Emission Unit S2.113 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.113** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.113** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

AA. Emission Unit S2.224

System 25 - Kiln #1 and Kiln #2 Baghouse Fines Silo Discharge System (D-11)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.224	Fines Silo T-89 Discharge to Truck via Retractable Spout	4,522,646	731,375

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.224** shall be controlled by a **baghouse (D-11)**.
   b. Descriptive Stack Parameters
      Stack Height: 40.0 feet
      Stack Diameter: 2.0 feet
      Stack Temperature: 68 ºF
      Exhaust Flow: 1,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.224** shall not exceed **58.3** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.224** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-11)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-11)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.224** shall not exceed **46.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.224** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.224** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.224** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test must be conducted by a certified visible emissions reader with the sun oriented to their back in accordance with 40 CFR Part 60, Appendix A.
   f. Inspect the baghouse installed on **S2.224** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

AB. Emission Unit S2.115

System 26 - Kiln #3 Baghouse Collection Product Loadout (D-388)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.115	Process Baghouse Transfer to Fine Dust Silo T-388 via Conveyor C-385	4,522,567	731,392

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.115** shall be controlled by a **baghouse (D-388)**.
   b. Descriptive Stack Parameters
      Stack Height: 57.0 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: ambient
      Exhaust Flow: 1,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.115** shall not exceed **50.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.115** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-388)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-388)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.115** shall not exceed **44.6** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.115** for each calendar day..
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.115** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

AB. Emission Unit S2.115 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.115** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.115** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

AC. Emission Unit S2.116

System 27 - Kiln #3 Baghouse Fines Discharge System (D-389)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.116	Fine Dust Silo T-388 Discharge to Truck (Vaculoader System)	4,522,566	731,391

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.116** shall be controlled by a **baghouse (D-389)**.
   b. Descriptive Stack Parameters
      Stack Height: 20.0 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: 68 ºF
      Exhaust Flow: 900 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.116** shall not exceed **50.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.116** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-389)** 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 **0.68** tons per 12-month rolling period.
   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 **0.68** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.15** pounds per hour, nor more than **0.68** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-389)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.116** shall not exceed **44.6** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.116** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.116** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

AC. Emission Unit S2.116 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.116** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.116** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken

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Section IV. Specific Operating Conditions

AD. Emission Unit PF1.042

System 28 - Kiln #3 Baghouse Fines Discharge System		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.042	Fines Dust Silo T-388 Transfer to Pugmill (includes transfer of fully saturated material from pugmill to truck (PF1.042.1))	4,522,566	731,391

1. Air Pollution Control Equipment (NAC 445B.3405)
   Emissions from **PF1.042** shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.042** shall not exceed **50.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.042** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.042** 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 **0.53** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.070** pounds per hour, nor more than **0.31** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.010** pounds per hour, nor more than **0.044** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.042** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.042** shall not exceed **44.6** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.042** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.042** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.042** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the enclosure installed on **PF1.042** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.

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Section IV. Specific Operating Conditions (continued)

AE. Emission Units S2.117 through S2.119

System 29 - Hydrate Plant Surge Bin		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.117	Conveyor C-1105 Transfer to Surge Bin N-1101	4,522,695	731,470
S2.117.1	Product Lime Silo T-44 Transfer to Gate G-1105		
S2.117.2	Gate G-1105 Transfer to Conveyor C-1105		
S2.118	Surge Bin N-1101 transfer to Conveyor C-1102		
S2.118.1	Conveyor C-1102 Transfer to Conveyor C-1104		
S2.119	Conveyor C-1104 Transfer to Hydrator Package		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.117 through S2.119** shall be controlled by a **baghouse (D-1101)**.
   b. Descriptive Stack Parameters
      Stack Height: 58.0 feet
      Stack Diameter: 1.0 feet
      Stack Temperature: 84.2 °F
      Exhaust Flow: 1,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.117 through S2.119**, each, shall not exceed **20.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.117 through S2.119**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-1101)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-1101)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.117 through S2.119**, each, shall not exceed **30.5** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.117 through S2.119**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.117 through S2.119**, each, for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AE. Emission Units S2.117 through S2.119 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.117 through S2.119** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.117 through S2.119** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

AF. Emission Units S2.120, S2.121 and S2.130

System 30 - Hydrate Plant Hydrator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.120	Hydrator	4,522,698	731,460
S2.121	Conveyor C-1122 Transfer to Gate G-1122		
S2.130	Bucket Elevator E-1130 transfer to Conveyor C-1122		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.120, S2.121 and S2.130** shall be controlled by a **baghouse (D-1110)**.
   b. Descriptive Stack Parameters
      Stack Height: 75.0 feet
      Stack Diameter: 1.67 feet (equivalent diameter, square stack)
      Stack Temperature: 200 °F
      Exhaust Flow: 4,567 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.120, S2.121 and S2.130**, each, shall not exceed **19.8** tons of **hydrated lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.120, S2.121 and S2.130**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-1110)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.78** pounds per hour, nor more than **3.43** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.78** pounds per hour, nor more than **3.43** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.78** pounds per hour, nor more than **3.43** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-1110)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **the exhaust stack of baghouse (D-1110)** shall not exceed **30.3** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.120, S2.121 and S2.130**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.120, S2.121 and S2.130**, each, for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AF. Emission Units S2.120, S2.121 and S2.130 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.120, S2.121 and S2.130** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.120, S2.121 and S2.130** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

AG. Emission Units S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131

System 31 - Hydrate Plant Lime Transfer (DC-1132)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.122	Gate G-1122 Transfer to Conveyor C-1123	4,522,699	731,470
S2.123	Separator Screen S-1130 and Associated Transfers (IN from Gate G-1122; OUT to Conveyor C-1130 and Conveyor C-1134 or Conveyor C-1132)		
S2.125	Mill R-1130 and Associated Transfers (IN from Conveyor C-1130; OUT to Conveyor C-1131)		
S2.126	Conveyor C-1131 Transfer to Bucket Elevator E-1130		
S2.127	Separator Screen S-1131 and Associated Transfers (IN from Bucket Elevator E-1130; OUT to Conveyor C-1130, Conveyor C-1132, or Conveyor C-1134)		
S2.131	Conveyor C-1134 and Conveyor C-1132 transfer to Bin N-1130		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131** shall be controlled by a **baghouse (D-1132)**.
   b. Descriptive Stack Parameters
      Stack Height: 31.0 feet
      Stack Diameter: 1.124 feet (equivalent diameter, square stack)
      Stack Temperature: 68 ºF
      Exhaust Flow: 4,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131**, each, shall not exceed **30.0** tons of **hydrated lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-1132)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.77** pounds per hour, nor more than **3.38** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.77** pounds per hour, nor more than **3.38** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.77** pounds per hour, nor more than **3.38** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-1132)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131**, each, shall not exceed **40.0** pounds per hour.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AG. Emission Units S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.122, S2.123, S2.125, S2.126, S2.127, and S2.131** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AH. Emission Units S2.132, S2.132.1, and S2.135

System 32 - Hydrate Plant Lime Transfer to Silo T-1140 (DC-1140)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.132	Bin N-1130 Transfer to Gate G-1131	4,522,675	731,487
S2.132.1	Gate G-1131 to Gate G-1133		
S2.135	Pneumatic Conveyor A-1130 Transfer to Loadout Silo T-1140 via Gate G-1133		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.132, S2.132.1, and S2.135** shall be controlled by a **baghouse (D-1140)**.
   b. Descriptive Stack Parameters
      Stack Height: 85.0 feet
      Stack Diameter: 1.1 feet (equivalent diameter, square stack)
      Stack Temperature: 68 ºF
      Exhaust Flow: 1,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.132, S2.132.1, and S.135**, each, shall not exceed **60.0** tons of **hydrated lime** per hour, averaged over a calendar day, nor more than **173,448.0** tons per 12-month rolling period.
   b. Hours
      (1) **S2.132, S2.132.1, and S2.135**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-1140)**, combined, the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-1140)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.132, S2.132.1, and S2.135**, each, shall not exceed **46.3** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.132, S2.132.1, and S2.135**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.132, S2.132.1, and S2.135**, each, for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AH. Emission Units S2.132, S2.132.1, and S2.135 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record.

e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.132, S2.132.1, and S2.135** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

f. Inspect the baghouse installed on **S2.132, S2.132.1, and S2.135** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AI. Emission Units S2.132, S2.132.1, and S2.137

System 33 - Hydrate Plant Lime Transfer to Silo T-1141		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.132	Bin N-1130 Transfer to Gate G-1131	4,522,685	731,488
S2.132.1	Gate G-1131 to Gate G-1133		
S2.137	Pneumatic Conveyor A-1130 Transfer to Loadout Silo T-1141 via Gate G-1133		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.132, S2.132.1, and S2.137** shall be controlled by a **baghouse (D-1141)**.
   b. Descriptive Stack Parameters
      Stack Height: 85.0 feet
      Stack Diameter: 0.7 feet (equivalent diameter, square stack)
      Stack Temperature: 68 ºF
      Exhaust Flow: 1,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.132, S2.132.1, and S2.137**, each, shall not exceed **60.0** tons of **hydrated lime** per hour, averaged over a calendar day, nor more than **173,448.0** tons per 12-month rolling period
   b. Hours
      (1) **S2.132, S2.132.1, and S2.137**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-1141)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.26** pounds per hour, nor more than **1.13** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-1141)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.132, S2.132.1, and S2.137**, each, shall not exceed **46.3** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.132, S2.132.1, and S2.137**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.132, S2.132.1, and S2.137**, each, for each calendar day.

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Section IV. Specific Operating Conditions (continued)

AI. Emission Units S2.132, S2.132.1, and S2.137 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.132, S2.132.1, and S2.137** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

f. Inspect the baghouse installed on **S2.132, S2.132.1, and S2.137** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AJ. Emission Units S2.136 and S2.138

System 34 - Hydrate Silos Loadout		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.136	Loadout Silo T-1140 Discharge via Conveyor C-1140	4,522,680	731,485
S2.138	Loadout Silo T-1141 Discharge via Conveyor C-1141		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.136 and S2.138** shall be controlled by a **baghouse (D-1142)**.
   b. Descriptive Stack Parameters
      Stack Height: 85.0 feet
      Stack Diameter: 0.7 feet (equivalent diameter, square stack)
      Stack Temperature: ambient
      Exhaust Flow: 1,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.136 and S2.138**, each, shall not exceed **60.0** tons of **hydrated lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.136 and S2.138**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-1142)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-1142)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.136 and S2.138**, each, shall not exceed **46.3** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.136 and S2.138**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.136 and S2.138**, each, for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AJ. Emission Units S2.136 and S2.138

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.136 and S2.138** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

f. Inspect the baghouse installed on **S2.136 and S2.138** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AK. Emission Units S2.144 through S2.150

System 35 - Product Lime Kiln #3 - Control Device #1 (D-331)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.144	Bucket Elevator E-331 Transfer to Gate G-331.1	4,522,630	731,452
S2.145	Gate G-331.1 Transfer to Gate G-331 or Silo T-40		
S2.146	Gate G-331 Transfer to Core Bin N-332 or Conveyor C-333		
S2.147	Conveyor C-333 Transfer to Kiln #3 Run Silo T-331		
S2.148	Core Bin N-332 Discharge to Truck		
S2.149	Bucket Elevator E-332 Transfer to Gate G-332.1		
S2.149.1	Gate G-332.1 Transfer to Conveyor C-334 or Bin N-332		
S2.150	Conveyor C-334 Transfer to #3 Kiln Run Silo T-331		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.144 through S2.150** shall be controlled by a **baghouse (D-331)**.
   b. Descriptive Stack Parameters
      Stack Height: 119.0 feet
      Stack Diameter: 1.736 feet (equivalent diameter, square stack)
      Stack Temperature: Ambient
      Exhaust Flow: 6,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.144 through S2.150**, each, shall not exceed **160.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.144 through S2.150**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-331)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.03** pounds per hour, nor more than **4.51** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.82** pounds per hour, nor more than **3.60** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.82** pounds per hour, nor more than **3.60** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-331)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.144 through S2.150**, each, shall not exceed **56.1** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.144 through S2.150**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AK. Emission Units S2.144 through S2.150 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   d. Monitor and record the hours of operation for **S2.144 through S2.150**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.144 through S2.150** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.144 through S2.150** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AK. Emission Units S2.144 through S2.150 (continued)

6. 40 CFR Part 64 – *Compliance Assurance Monitoring* (CAM) (40 CFR 64.1, et.seq.)
   a. Upon issuance of this operating permit, Permittee shall conduct monitoring, recordkeeping, and reporting for the controls on **S2.144 through S2.150**, as listed in **Table AK-1** below:

Table AK-1:
Part 64 CAM Monitoring for the control on S2.144 through S2.150

CAM Performance Indicator===>	**Pressure Drop**
Measurement Approach	Pressure drop across the baghouse is measured with a differential pressure gauge.
Indicator Range	An excursion is defined as a differential pressure outside the range of 1 – 10 inches of water column. Excursions trigger an inspection and corrective action.
Measurement Locations	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.25 inches water column.
Verification of Operational Status	Annually
Quality Assurance/Quality Control	The pressure gauge is calibrated periodically per the manufacturer's specifications.
Monitoring Frequency	Pressure drop across the baghouse will be monitored and recorded daily.
Data Collection Procedures	A differential pressure reading will be recorded daily in a log.
Averaging Periods	None, single differential pressure reading.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.
Reporting	Permittee shall comply with the applicable *General Reporting Requirements* set forth in 40 CFR 64.9(a).
Recordkeeping	Permittee shall comply with the applicable *General Recordkeeping Requirements* set forth in 40 CFR 64.9(b).

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AL. System 36

System 36 - Product Lime Kiln #3 Control Device #2 (D-333)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.139	Kiln #3 Lime Cooler N-322 Transfer to Gate G-326	4,522,642	731,465
S2.140	Gate G-326 Transfer to Conveyor C-331		
S2.141	Gate G-326 Transfer to Conveyor C-332		
S2.142	Conveyor C-331 Transfer to Bucket Elevator E-331		
S2.143	Conveyor C-332 Transfer to Bucket Elevator E-332		
S2.151	Gate G-353 Transfer to Conveyor C-332		
S2.152	Gate G-354 Transfer to Conveyor C-332		
S2.154	Kiln #3 Run Silo T-331 Transfer via Feeder F-336 to Conveyor C-336		
S2.155	Kiln #3 Run Silo T-331 Transfer via Feeder F-337 to Conveyor C-337		
S2.156	Conveyor C-336 Transfer to Bucket Elevator E-336		
S2.157	Conveyor C-337 Transfer to Bucket Elevator E-337		
S2.158	Bucket Elevator E-336 Transfer to Gate G-336		
S2.159	Screen S-336 and Associated Transfers (IN from Gate G-336; OUT to Crusher R-351 (S2.161), Gate G-351 (S2.162), and Gate G-353 (S2.165))		
S2.160	Gate G-336 Transfer to Conveyor C-341		
S2.163	Crusher R-351 and Associated Transfers (IN from Gate G-351 and Screen S-336 (S2.161); OUT to Screw Conveyor C-351 (S2.167))		
S2.164	Gate G-351 transfer to Conveyor C-342		
S2.166	Gate G-353 Transfer to Conveyor C-341		
S2.168	Conveyor C-351 Transfer to Bucket Elevator E-336		
S2.169	Bucket Elevator E-337 Transfer to Gate G-337		
S2.170	Screen S-337 and Associated Transfers (IN from Gate G-337; OUT to Crusher R-352 (S2.172), Gate G-352 (S2.175), and Gate G-354 (S2.178)		
S2.171	Gate G-337 Transfer to Conveyor C-341		
S2.173	Crusher R-352 and Associated Transfer (IN from Screen S-337 (S2.172) and Gate G-352 (S2.176); OUT to Screw Conveyor C-352)		
S2.174	Conveyor C-352 Transfer to Bucket Elevator E-337		
S2.177	Gate G-352 Transfer to Conveyor C-342		
S2.179	Gate G-354 Transfer to Conveyor C-341		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **System 36** shall be controlled by a **baghouse (D-333)**.
   b. Descriptive Stack Parameters
      Stack Height: 57.0 feet
      Stack Diameter: 3.177 feet (equivalent diameter, square stack)
      Stack Temperature: 80 ºF
      Exhaust Flow: 32,500 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for each **emission unit in System 36** shall not exceed **160.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) Each **emission unit in System 36** may operate a total of **24** hours per day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AL. System 36 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-333)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **5.57** pounds per hour, nor more than **24.4** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **4.46** pounds per hour, nor more than **19.5** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **4.46** pounds per hour, nor more than **19.5** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-333)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **each emission unit in System 36** shall not exceed **56.1** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for each **emission unit in System 36** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for each unit in **emission unit in System 36**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **System 36** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **System 36** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AL. System 36 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1)) (continued)
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   e. 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.
   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.

6. 40 CFR Part 64 – *Compliance Assurance Monitoring* (CAM) (40 CFR 64.1, et.seq.)
   a. Upon issuance of this operating permit, Permittee shall conduct monitoring, recordkeeping, and reporting for the controls on **System 36**, as listed in **Table AL-1** below:

Table AL-1:
Part 64 CAM Monitoring for the control on System 36

CAM Performance Indicator===>	**Pressure Drop**
Measurement Approach	Pressure drop across the baghouse is measured with a differential pressure gauge.
Indicator Range	An excursion is defined as a differential pressure outside the range of 1 – 10 inches of water column. Excursions trigger an inspection and corrective action.
Measurement Locations	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.25 inches water column.
Verification of Operational Status	Annually
Quality Assurance/Quality Control	The pressure gauge is calibrated periodically per the manufacturer's specifications.
Monitoring Frequency	Pressure drop across the baghouse will be monitored and recorded daily.
Data Collection Procedures	A differential pressure reading will be recorded daily in a log.
Averaging Periods	None, single differential pressure reading.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.
Reporting	Permittee shall comply with the applicable *General Reporting Requirements* set forth in 40 CFR 64.9(a).
Recordkeeping	Permittee shall comply with the applicable *General Recordkeeping Requirements* set forth in 40 CFR 64.9(b).

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Section IV. Specific Operating Conditions (continued)

AM. Emission Units S2.182 through S2.185

System 37 - Product Lime Kiln #3 - Control Device #3 (D-343)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.182	Conveyor C-341 Transfer to Bucket Elevator E-341	4,522,638	731,493
S2.183	Conveyor C-342 Transfer to Bucket Elevator E-342		
S2.184	Bucket Elevator E-341 Transfer to Lime Silo T-343		
S2.185	Bucket Elevator E-342 Transfer to Lime Silo T-342		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.182 through S2.185** shall be controlled by a **baghouse (D-343)**.
   b. Descriptive Stack Parameters
      Stack Height: 95.0 feet
      Stack Diameter: 1.784 feet (equivalent diameter, square stack)
      Stack Temperature: ambient
      Exhaust Flow: 8,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.182 through S2.185**, each, shall not exceed **160.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.182 through S2.185**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-343)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.37** pounds per hour, nor more than **6.01** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.10** pounds per hour, nor more than **4.81** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **1.10** pounds per hour, nor more than **4.81** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-343)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.182 through S2.185**, each, shall not exceed **56.1** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.182 through S2.185**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.182 through S2.185**, each, for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AM. Emission Units S2.182 through S2.185 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.182 through S2.185** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.182 through S2.185** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
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 performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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 IV. Specific Operating Conditions (continued)

AM. Emission Units S2.182 through S2.185 (continued)

6. 40 CFR Part 64 – *Compliance Assurance Monitoring* (CAM) (40 CFR 64.1, et.seq.)
   a. Upon issuance of this operating permit, Permittee shall conduct monitoring, recordkeeping, and reporting for the controls on **S2.182 through S2.185**, as listed in **Table AM-1** below:

Table AM-1:
Part 64 CAM Monitoring for the control on S2.182 through S2.185

CAM Performance Indicator===>	**Pressure Drop**
Measurement Approach	Pressure drop across the baghouse is measured with a differential pressure gauge.
Indicator Range	An excursion is defined as a differential pressure outside the range of 1 – 10 inches of water column. Excursions trigger an inspection and corrective action.
Measurement Locations	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.25 inches water column.
Verification of Operational Status	Annually
Quality Assurance/Quality Control	The pressure gauge is calibrated periodically per the manufacturer's specifications.
Monitoring Frequency	Pressure drop across the baghouse will be monitored and recorded daily.
Data Collection Procedures	A differential pressure reading will be recorded daily in a log.
Averaging Periods	None, single differential pressure reading.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.
Reporting	Permittee shall comply with the applicable *General Reporting Requirements* set forth in 40 CFR 64.9(a).
Recordkeeping	Permittee shall comply with the applicable *General Recordkeeping Requirements* set forth in 40 CFR 64.9(b).

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Section IV. Specific Operating Conditions (continued)

AN. Emission Units S2.187 through S2.188.1

System 38 - Product Lime Kiln #3 - Control Device #4 (D-361)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.187	Lime Silo T-343 Loadout to Truck (via Spout U-362 or Transfer to Conveyor C-364)	4,522,637	731,485
S2.188	Lime Silo T-342 Loadout to Truck (via Spout U-363 or Transfer to Conveyor C-365)		
S2.188.1	Conveyor C-364 and Conveyor C-365 Transfer to Truck via Spout U-364		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.187 through S2.188.1** shall be controlled by a **baghouse (D-361)**.
   b. Descriptive Stack Parameters
      Stack Height: 47.0 feet
      Stack Diameter: 1.077 feet (equivalent diameter, square stack)
      Stack Temperature: ambient
      Exhaust Flow: 3,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.187 through S2.188.1**, each, shall not exceed **200.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.187 through S2.188.1**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse (D-361)** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.51** pounds per hour, nor more than **2.25** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.51** pounds per hour, nor more than **2.25** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.51** pounds per hour, nor more than **2.25** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse (D-361)** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.187 through S2.188.1**, each, shall not exceed **58.5** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.187 through S2.188.1**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.187 through S2.188.1**, each, for each calendar day.

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Section IV. Specific Operating Conditions (continued)

AN. Emission Units S2.187 through S2.188.1 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.187 through S2.188.1** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.187 through S2.188.1** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

5. Performance and Compliance Testing (NAC 445B.3405, NAC 445B.252(1))
The Permittee, upon issuance of this operating permit, shall conduct and record renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:
   a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section **I.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. All performance test results shall be based on the arithmetic average of three valid runs. (NAC 445B.252(5))
   b. Testing shall be conducted on the exhaust stack (post controls).
   c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions**.** The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
   d. Method 201A 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.
   e. 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.
   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 IV. Specific Operating Conditions (continued)

AO. Emission Unit S2.189

System 40 - Gasoline Storage Tank (5,700 gallons)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.189	Gasoline Storage Tank (5,700 gallon capacity)	4,522,683	731,510

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.189** shall be controlled by submerged fill.
   b. Descriptive Stack Parameters
      Shell Diameter: 9 feet
      Shell length: 12 feet
      Capacity: 5,700 gallons

2. Operating Parameters (NAC 445B.3405)
   a. **S2.189** shall only be used to store **gasoline**.
   b. The maximum allowable throughput rate for **S2.189** shall not exceed **9,900.0** gallons per month, nor more than **118,800.0** gallons per 12-month rolling period.
   c. Hours
      (1) **S2.189** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.189** the following pollutants in excess of the following specified limits:
   a. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.73** tons per year.
   b. NAC 445B.22017 – The opacity from the **S2.189** shall not equal or exceed **20** percent.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput of **Gasoline**, in gallons, loaded into, or dispensed from, **S2.189**, on a **monthly** basis, as determined from vendor invoices for tank loading or fuel pump non-resettable meter for tank dispensing.
   b. Record the throughput rate of material, in gallons, on a cumulative monthly basis, for each 12-month rolling period

5. Federal Requirements
   National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart CCCCCC – for Gasoline Dispensing Facilities
   a. Permittee must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR 63.11115(a))

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Section IV. Specific Operating Conditions (continued)

AO. Emission Unit S2.189 (continued)

5. Federal Requirements (continued)
National Emission Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart CCCCCC – for Gasoline Dispensing Facilities (continued)
   b. Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
      (1) Minimize gasoline spills. (40 CFR 63.11116(a)(1))
      (2) Clean up spills as expeditiously as practicable. (40 CFR 63.11116(a)(2))
      (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use. (40 CFR 63.11116(a)(3))
      (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. (40 CFR 63.11116(a)(4))
   c. Permittee must have records available within 24 hours of a request by the Administrator to document your gasoline throughput. (40 CFR 63.11116(b))

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Section IV. Specific Operating Conditions (continued)

AP. Emission Unit S2.204

System 41 - Kiln #1 Auxiliary Drive Motor		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.204	Kiln #1 Auxiliary Drive Motor (51 kW, Deutz, model F4L912 (or equivalent), manufactured pre 2003)	4,522,680	731,414

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **S2.204** has no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 11.0 feet
      Stack Diameter: 0.26 feet
      Stack Temperature: 932 °F

2. Operating Parameters (NAC 445B.3405)
   a. **S2.204** may consume only **diesel**.
   b. The maximum allowable fuel consumption rate for **S2.204** shall not exceed **3.47 gallons** per hour, averaged over a calendar day.
   c. Hours
      (1) **S2.204** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.204** 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 **0.66** tons per 12-month rolling period.
   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 **0.66** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.15** pounds per hour, nor more than **0.66** tons per 12-month rolling period.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.00073** pounds per hour, nor more than **0.0032** tons per 12-month rolling period.
   e. The discharge of **NOx** (oxides of nitrogen) to the atmosphere shall not exceed **1.03** pounds per hour, nor more than **4.53** tons per 12-month rolling period.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.46** pounds per hour, nor more than **2.02** tons per 12-month rolling period.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.77** tons per 12-month rolling period.
   h. NAC 445B.22017 – The opacity from the **S2.204** shall not equal or exceed **20** percent.
   i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.204** shall not exceed **0.34** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

AP. Emission Unit S2.204 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.204** (in gallons) by multiplying the maximum hourly fuel consumption rate as stated in **AP.2.b.** of this section and the total daily hours of operation. The maximum consumption rate shall be provided on the manufacturer's specification, to be kept onsite with records.
   b Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
   c. Monitor and record the hours of operation for **S2.204** for each calendar day.
   d. 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
National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines
   a. Emissions Limitations, Management Practices and Other Requirements (40 CFR 63.6603(a), Table 2d)
   The Permittee must comply with the following requirements, except during periods of startup:
      (1) Change oil and filter every 1,000 hours of operation or annually, whichever comes first;
      (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
      (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
   b. Monitoring, Installation, Collection, Operation, Maintenance Requirements (40 CFR 63.6625)
      (1) The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR 63.6625(e))
      (2) The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in **AP.5.a** of this section. (40 CFR 63.6625(h))
      (3) The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in **AP.5.a.(1)** of this section. The oil analysis must be performed at the same frequency specified for changing the oil in **AP.5.a.(1)** of this section. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee must change the oil within 2 business days or before commencing operation, whichever is later. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. (40 CFR 63.6625(i))
   c. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6)
      (1) The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in Subpart ZZZZ that apply at all times. (40 CFR Part 63.6605(a))

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Section IV. Specific Operating Conditions (continued)

AP. Emission Unit S2.204 (continued)

5. Federal Requirements
National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

c. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6) (continued)

(2) The Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR Part 63.6605(b))

(3) The Permittee must also report each instance in which they did not meet the requirements in Table 8 to Subpart ZZZZ that apply. (40 CFR Part 63.6640(e))

(4) Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Table 2d to Subpart ZZZZ that applies to the Permittee according to methods specified below: (40 CFR 63.6640(a), Table 6)

(a) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(b) Develop and follow Permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

d. Recordkeeping Requirements (40 CFR Part 63.6655)
The Permittee must keep the following records:

(1) A copy of each notification and report that the Permittee submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR Part 63.10(b)(2)(xiv). (40 CFR 63.6655(a)(1))

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. (40 CFR 63.6655(a)(2))

(3) Records of performance tests and performance evaluations as required in 40 CFR Part 63.10(b)(2)(viii). (40 CFR 63.6655(a)(3))

(4) Records of all required maintenance performed on the RICE and any air pollution control and monitoring equipment. (40 CFR 63.6655(a)(4))

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with **AP.5.c.(2)** of this section including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (40 CFR 63.6655(a)(5))

(6) The Permittee must keep the records required in with **AP.5.c.(4)** of this section to show continuous compliance with each emission or operating limitation that applies. (40 CFR 63.6655(d))

(7) The Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. (40 CFR 63.6655(e))

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Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.205

System 42 - Kiln #2 Auxiliary Drive Motor		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.205	Kiln #2 Auxiliary Drive Motor (51 kW, Deutz, Model F4L912 (or equivalent), manufactured pre 2003)	4,522,701	731,406

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **S2.205** has no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 16.0 feet
      Stack Diameter: 0.26 feet
      Stack Temperature: 932 °F

2. Operating Parameters (NAC 445B.3405)
   a. **S2.205** may consume only **diesel**.
   b. The maximum allowable fuel consumption rate for **S2.205** shall not exceed **3.47 gallons** per hour, averaged over a calendar day.
   c. Hours
      (1) **S2.205** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.205** 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 **0.66** tons per 12-month rolling period.
   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 **0.66** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.15** pounds per hour, nor more than **0.66** tons per 12-month rolling period.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.00073** pounds per hour, nor more than **0.0032** tons per 12-month rolling period.
   e. The discharge of **NOx** (oxides of nitrogen) to the atmosphere shall not exceed **1.03** pounds per hour, nor more than **4.53** tons per 12-month rolling period.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.46** pounds per hour, nor more than **2.02** tons per 12-month rolling period.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.77** tons per 12-month rolling period.
   h. NAC 445B.22017 – The opacity from the **S2.205** shall not equal or exceed **20** percent.
   i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.205** shall not exceed **0.34** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.205 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.205** (in gallons) by multiplying the maximum hourly fuel consumption rate as stated in **AQ.2.b.** of this section and the total daily hours of operation. The maximum consumption rate shall be provided on the manufacturer's specification, to be kept onsite with records.
   b Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
   c. Monitor and record the hours of operation for **S2.205** for each calendar day.
   d. 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
National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines
   a. Emissions Limitations, Management Practices and Other Requirements (40 CFR 63.6603(a), Table 2d)
   The Permittee must comply with the following requirements, except during periods of startup:
      (1) Change oil and filter every 1,000 hours of operation or annually, whichever comes first;
      (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
      (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
   b. Monitoring, Installation, Collection, Operation, Maintenance Requirements (40 CFR 63.6625)
      (1) The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR 63.6625(e))
      (2) The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in **AQ.5.a** of this section. (40 CFR 63.6625(h))
      (3) The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in **AQ.5.a.(1)** of this section. The oil analysis must be performed at the same frequency specified for changing the oil in **AQ.5.a.(1)** of this section. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee must change the oil within 2 business days or before commencing operation, whichever is later. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. (40 CFR 63.6625(i))
   c. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6)
      (1) The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in Subpart ZZZZ that apply at all times. (40 CFR Part 63.6605(a))

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Section IV. Specific Operating Conditions (continued)

AQ. Emission Unit S2.205 (continued)

5. Federal Requirements
National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

c. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6) (continued)

(2) The Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR Part 63.6605(b))

(3) The Permittee must also report each instance in which they did not meet the requirements in Table 8 to Subpart ZZZZ that apply. (40 CFR Part 63.6640(e))

(4) Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Table 2d to Subpart ZZZZ that applies to the Permittee according to methods specified below: (40 CFR 63.6640(a), Table 6)

(a) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(b) Develop and follow Permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

d. Recordkeeping Requirements (40 CFR Part 63.6655)
The Permittee must keep the following records:

(1) A copy of each notification and report that the Permittee submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR Part 63.10(b)(2)(xiv). (40 CFR 63.6655(a)(1))

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. (40 CFR 63.6655(a)(2))

(3) Records of performance tests and performance evaluations as required in 40 CFR Part 63.10(b)(2)(viii). (40 CFR 63.6655(a)(3))

(4) Records of all required maintenance performed on the RICE and any air pollution control and monitoring equipment. (40 CFR 63.6655(a)(4))

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with **AQ.5.c.(2)** of this section including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (40 CFR 63.6655(a)(5))

(6) The Permittee must keep the records required in with **AQ.5.c.(4)** of this section to show continuous compliance with each emission or operating limitation that applies. (40 CFR 63.6655(d))

(7) The Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. (40 CFR 63.6655(e))

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Section IV. Specific Operating Conditions (continued)

AR. Emission Unit S2.206

System 43 - Kiln #3 Auxiliary Drive Motor		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.206	Kiln #3 Auxiliary Drive Motor (51 kW, Deutz, model F4L912 (or equivalent), manufactured pre 2003)	4,522,597	731,438

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **S2.206** has no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 22.0 feet
      Stack Diameter: 0.26 feet
      Stack Temperature: 932 °F

2. Operating Parameters (NAC 445B.3405)
   a. **S2.206** may consume only **diesel**.
   b. The maximum allowable fuel consumption rate for **S2.206** shall not exceed **3.47 gallons** per hour, averaged over a calendar day.
   c. Hours
      (1) **S2.206** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.206** 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 **0.66** tons per 12-month rolling period.
   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 **0.66** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.15** pounds per hour, nor more than **0.66** tons per 12-month rolling period.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.00073** pounds per hour, nor more than **0.0032** tons per 12-month rolling period.
   e. The discharge of **NOx** (oxides of nitrogen) to the atmosphere shall not exceed **1.03** pounds per hour, nor more than **4.53** tons per 12-month rolling period.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.46** pounds per hour, nor more than **2.02** tons per 12-month rolling period.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.77** tons per 12-month rolling period.
   h. NAC 445B.22017 – The opacity from the **S2.206** shall not equal or exceed **20** percent.
   i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.206** shall not exceed **0.34** pounds per hour.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AR. Emission Unit S2.206 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.206** (in gallons) by multiplying the maximum hourly fuel consumption rate as stated in **AR.2.b.** of this section and the total daily hours of operation. The maximum consumption rate shall be provided on the manufacturer's specification, to be kept onsite with records.
   b Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
   c. Monitor and record the hours of operation for **S2.205** for each calendar day.
   d. 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
National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines
   a. Emissions Limitations, Management Practices and Other Requirements (40 CFR 63.6603(a), Table 2d)
   The Permittee must comply with the following requirements, except during periods of startup:
      (1) Change oil and filter every 1,000 hours of operation or annually, whichever comes first;
      (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
      (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
   b. Monitoring, Installation, Collection, Operation, Maintenance Requirements (40 CFR 63.6625)
      (1) The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR 63.6625(e))
      (2) The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in **AR.5.a** of this section. (40 CFR 63.6625(h))
      (3) The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in **AR.5.a.(1)** of this section. The oil analysis must be performed at the same frequency specified for changing the oil in **AR.5.a.(1)** of this section. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee must change the oil within 2 business days or before commencing operation, whichever is later. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. (40 CFR 63.6625(i))
   c. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6)
      (1) The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in Subpart ZZZZ that apply at all times. (40 CFR Part 63.6605(a))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AR. Emission Unit S2.206 (continued)

5. Federal Requirements
National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

c. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6) (continued)

(2) The Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR Part 63.6605(b))

(3) The Permittee must also report each instance in which they did not meet the requirements in Table 8 to Subpart ZZZZ that apply. (40 CFR Part 63.6640(e))

(4) Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Table 2d to Subpart ZZZZ that applies to the Permittee according to methods specified below: (40 CFR 63.6640(a), Table 6)

(a) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(b) Develop and follow Permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

d. Recordkeeping Requirements (40 CFR Part 63.6655)
The Permittee must keep the following records:

(1) A copy of each notification and report that the Permittee submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR Part 63.10(b)(2)(xiv). (40 CFR 63.6655(a)(1))

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. (40 CFR 63.6655(a)(2))

(3) Records of performance tests and performance evaluations as required in 40 CFR Part 63.10(b)(2)(viii). (40 CFR 63.6655(a)(3))

(4) Records of all required maintenance performed on the RICE and any air pollution control and monitoring equipment. (40 CFR 63.6655(a)(4))

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with **AR.5.c.(2)** of this section including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (40 CFR 63.6655(a)(5))

(6) The Permittee must keep the records required in with **AR.5.c.(4)** of this section to show continuous compliance with each emission or operating limitation that applies. (40 CFR 63.6655(d))

(7) The Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. (40 CFR 63.6655(e))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AS. Emission Unit S2.207

System 44 - Emergency Fire Pump		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.207	Emergency Diesel Fired Fire Pump (169 kW, John Deere, 2009 or later)	4,522,722	731,425

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **S2.207** has no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 6.0 feet
      Stack Diameter: 0.50 feet
      Stack Temperature: 873 °F

2. Operating Parameters (NAC 445B.3405)
   a. **S2.207** may consume only **diesel**.
   b. The maximum allowable fuel consumption rate for **S2.207** shall not exceed **11.4 gallons** per hour, averaged over a calendar day, nor more than **1,140.0 gallons** per 12-month rolling period of non-emergency use.
   c. Hours
      (1) **S2.207** may operate a total of **24** hours per day.
      (2) **S2.207** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.207** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.075** pounds per hour, nor more than **0.0037** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.075** pounds per hour, nor more than **0.0037** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.075** pounds per hour, nor more than **0.0037** tons per 12-month rolling period.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.0024** pounds per hour, nor more than **0.00012** tons per 12-month rolling period.
   e. The discharge of **NO_X** (oxides of nitrogen) to the atmosphere shall not exceed **1.49** pounds per hour, nor more than **0.074** tons per 12-month rolling period.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.30** pounds per hour, nor more than **0.065** tons per 12-month rolling period.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.57** pounds per hour, nor more than **0.029** tons per 12-month rolling period.
   h. NAC 445B.22017 – The opacity from the **S2.207** shall not equal or exceed **20** percent.
   i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.207** shall not exceed **1.12** pounds per hour.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AS. Emission Unit S2.207 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.207** (in gallons) by multiplying the hourly fuel consumption rate as stated in **AS.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
   b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
   c. Monitor and record the total daily hours of operation for **S2.207** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
   d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
   e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
   a. Emissions Standards (40 CFR 60.4202, 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 2009 model year and later stationary fire pump engine with a maximum engine power of 130≤kW<225 (175≤hp<300) 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 **0.20** gram/kW-hr (0.15 gram/hp-hr) (**0.075** pounds per hour).
         (b) The discharge of CO to the atmosphere shall not exceed **3.5** grams/kW-hr (**2.6** grams/hp-hr) (**1.30** pounds per hour).
         (c) The discharge of non-methane hydrocarbon (NMHC) + NO_X to the atmosphere shall not exceed **4.0** grams/kW-hr (3.0 grams/hp-hr) (**1.49** pounds per hour).
   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))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AS. Emission Unit S2.207 (continued)

5. Federal Requirements (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

(1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 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 1039. (40 CFR 60.4211(a))

(3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **AS.5.d.(5)** of this section. (40 CFR 60.4211(c))

(4) In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs **AS.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee do not operate the engine according to the requirements in paragraphs **AS.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 60.4211(f))

(a) There is no time limit on the use of emergency stationary ICE in emergency situations. (40 CFR 60.4211(f)(1))

(b) The Permittee may operate the Permittee's emergency stationary ICE for any combination of the purposes specified in paragraphs **AS.5.d.(4)(b)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph **AS.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 60.4211(f)(2))

i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (40 CFR 60.4211(f)(2)(i))

(c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph **AS.5.d.(4)(b)** of this section. Except as provided in paragraph **AS.5.d.(4)(c)** of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 60.4211(f)(3))

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met. (40 CFR 60.4211(f)(3)(i))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AS. Emission Unit S2.207 (continued)

5. Federal Requirements (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

(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))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AT. Emission Unit PF1.043

System 45 – Toana Truck Unloading		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.043	Truck Unloading to Below-grade Hopper	4,522,822	732,875

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **PF1.043** shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.043** shall not exceed **120.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.043** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.043** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.29** pounds per hour, nor more than **1.26** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.74** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.024** pounds per hour, nor more than **0.11** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.043** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.043** shall not exceed **53.1** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.043** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.043** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.043** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the enclosure installed on **PF1.043** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.

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Section IV. Specific Operating Conditions (continued)

AU. Emission Units S2.194 and S2.195

System 46 – Toana Railcar Loading		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.194	Hopper Discharge to Conveyor	4,522,814	732,857
S2.195	Conveyor Discharge to Railcar via Loadout Spout		

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.194 and S2.195** shall be controlled by a **baghouse**.
   b. Descriptive Stack Parameters
      Stack Height: 35.0 feet
      Stack Diameter: 0.5 feet (equivalent diameter, square stack)
      Stack Temperature: 68 ºF
      Exhaust Flow: 1,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.194 and S2.195**, each, shall not exceed **120.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.194 and S2.195**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of baghouse** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.17** pounds per hour, nor more than **0.75** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **baghouse** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.194 and S2.195**, each, shall not exceed **53.1** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.194 and S2.195**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.194 and S2.195**, each, for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AU. Emission Units S2.194 and S2.195 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.194 and S2.195** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.194 and S2.195** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

AV. Emission Unit PF1.044

System 47 – Fine Dust Surge Bin N-80 Transfer to Truck		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.044	Fine Dust Surge Bin N-80 transfer to Truck	4,522,672	731,386

1. Air Pollution Control Equipment (NAC 445B.3405)
   PF1.044 has no add-on controls.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.044** shall not exceed **30.0** tons of **lime** per hour, averaged over a calendar day, nor more than **21,900.0** tons per 12-month rolling period.
   b. Hours
      (1) **PF1.044** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.044** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.96** pounds per hour, nor more than **0.35** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.45** pounds per hour, nor more than **0.16** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.060** pounds per hour, nor more than **0.022** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.044** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.044** shall not exceed **40.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.044** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.044** for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AW. Emission Unit PF1.045

System 48 - Fine Dust Surge Bin N-280 Transfer to Truck		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.045	Fine Dust Surge Bin N-280 transfer to Truck	4,522,699	731,380

1. Air Pollution Control Equipment (NAC 445B.3405)
   PF1.045 has no add-on controls.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.045** shall not exceed **30.0** tons of **lime** per hour, averaged over a calendar day, nor more than **29,171.0** tons per 12-month rolling period.
   b. Hours
      (1) **PF1.045** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.045** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.96** pounds per hour, nor more than **0.47** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.45** pounds per hour, nor more than **0.22** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.060** pounds per hour, nor more than **0.029** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.045** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.045** shall not exceed **40.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.045** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.045** for each calendar day.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

AX. Emission Unit PF1.046

System 49 - Fine Dust Surge Bin N-381 Transfer to Truck		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.046	Fine Dust Surge Bin N-381 transfer to Truck	4,522,566	731,432

1. Air Pollution Control Equipment (NAC 445B.3405)
   PF1.046 has no add-on controls.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.046** shall not exceed **30.0** tons of **lime** per hour, averaged over a calendar day, nor more than **43,800.0** tons per 12-month rolling period.
   b. Hours
      (1) **PF1.046** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.046** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.96** pounds per hour, nor more than **0.70** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.45** pounds per hour, nor more than **0.33** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.060** pounds per hour, nor more than **0.044** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.046** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.046** shall not exceed **40.0** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.046** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.046** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

AY. Emission Unit PF1.047

System 50 – Truck Dump to Hoppers #1 and #2		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.047	Truck Dump to Hoppers #1 and #2	4,523,001	731,702

1. Air Pollution Control Equipment (NAC 445B.3405)
   PF1.047 has no add-on controls.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.047** shall not exceed **50.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.047** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.047** 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 **0.66** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.055** pounds per hour, nor more than **0.24** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0084** pounds per hour, nor more than **0.037** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.047** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.047** shall not exceed **44.6** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.047** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.047** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

AZ. Emission Units PF1.048 and PF1.049

System 51 – Hoppers #1 and #2 Discharge		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.048	Hoppers #1 and #2 discharge to Belt Feeders #1 and #2	4,523,016	731,731
PF1.049	Belt Feeders #1 and #2 transfer to Reclaim Belt Conveyor	4,523,016	731,731

1. Air Pollution Control Equipment (NAC 445B.3405)
   Emissions from **PF1.048 and PF1.049**, each, shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.048 and PF1.049**, each, shall not exceed **50.0** tons of **aggregate** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.048 and PF1.049**, each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.048 and PF1.049**, each, the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.075** pounds per hour, nor more than **0.33** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.028** pounds per hour, nor more than **0.12** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0042** pounds per hour, nor more than **0.018** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.048 and PF1.049, each,** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.048 and PF1.049**, each, shall not exceed **44.6** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.048 and PF1.049**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.048 and PF1.049**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.048 and PF1.049** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

AZ. Emission Units PF1.048 and PF1.049 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (continued)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   f. Inspect the enclosure installed on **PF1.048 and PF1.049** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.
   g. 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
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **PF1.048 and PF1.049**, each, will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Process fugitive emissions from **PF1.048 and PF1.049**, each, will not exceed **7 percent** opacity. (40 CFR Part 60.672(b))
      (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction. (40 CFR 60.11(c))
   b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.048 and PF1.049**, each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

BA. Emission Units S2.196 and PF1.050

System 52 – Pozzolan Silo		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.196	Pozzolan Silo Loading	4,523,010	731,740
PF1.050	Pozzolan Silo Discharge to Pozzolan Belt Feeder	4,523,010	731,740

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.196** shall be controlled by a **vent filter**.
   b. Emissions from **PF1.050** shall be controlled by an **enclosure**.
   c. Descriptive Stack Parameters for **S2.196**
      Stack Height: 100.0 feet
      Stack Diameter: 1.00 feet
      Stack Temperature: 68.0 °F
      Exhaust Flow: 816.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.196** shall not exceed **160.0** tons of **pozzolan** per hour, averaged over a calendar day, nor more than **219,000.0** tons per 12-month rolling period.
   b. The maximum allowable throughput rate for **PF1.050** shall not exceed **25.0** tons of **pozzolan** per hour, averaged over a calendar day.
   c. Hours
      (1) **S2.196 and PF1.050,** each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.196** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.16** pounds per hour, nor more than **0.11** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.054** pounds per hour, nor more than **0.037** tons per 12-month rolling period.
      (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 **0.0082** pounds per hour, nor more than **0.0056** tons per 12-month rolling period.
      (4) NAC 445B.22017 – The opacity from the **S2.196** shall not equal or exceed **20** percent.
      (5) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.196** shall not exceed **56.1** pounds per hour.
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.050** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.060** pounds per hour, nor more than **0.26** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.035** pounds per hour, nor more than **0.15** tons per 12-month rolling period.
      (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 **0.0053** pounds per hour, nor more than **0.023** tons per 12-month rolling period.
      (4) NAC 445B.22017 – The opacity from **PF1.050** shall not equal or exceed **20** percent.
      (5) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.050** shall not exceed **35.4** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

BA. Emission Units S2.196 and PF1.050 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.196 and PF1.050**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.196 and PF1.050**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the vent filter controlling **S2.196** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the vent filter installed on **S2.196** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
   g. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.050** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   h. Inspect the enclosure installed on **PF1.050** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.

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Section IV. Specific Operating Conditions (continued)

BB. Emission Unit PF1.051

System 53 – Pozzolan Belt Feeder		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.051	Pozzolan Belt Feeder transfer to Covered Z Belt	4,523,018	731,736

1. Air Pollution Control Equipment (NAC 445B.3405)
   Emissions from **PF1.051** shall be controlled by an **enclosure**.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.051** shall not exceed **25.0** tons of **pozzolan** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.051** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.051** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.060** pounds per hour, nor more than **0.26** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.035** pounds per hour, nor more than **0.15** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0053** pounds per hour, nor more than **0.023** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.051** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.051** shall not exceed **35.4** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.051** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.051** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on **PF1.051** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the enclosure installed on **PF1.051** on a **monthly** basis to confirm that the enclosure is in place and functioning properly. If the enclosure is in disrepair, the Permittee shall perform corrective action within 24 hours to ensure that the enclosure is functioning properly.
   g. 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))

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Section IV. Specific Operating Conditions (continued)

BB. Emission Unit PF1.051 (continued)

5. Federal Requirements (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement)*
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **PF1.051** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Process fugitive emissions from **PF1.051** will not exceed **7 percent** opacity. (40 CFR Part 60.672(b))
      (2) The opacity standard set forth in this part shall apply at all times except during period of startup, shutdown, and malfunction. (40 CFR 60.11(c))
   b. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   c. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.051** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

BC. Emission Units S2.197 and PF1.052

System 54 – Quicklime Silo		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.197	Quicklime Silo Loading	4,523,013	731,748
PF1.052	Quicklime Silo Discharge to Quicklime Belt Feeder transfer	4,523,013	731,748

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.197** shall be controlled by a **vent filter**.
   b. **PF1.052** has no add-on controls.
   c. Descriptive Stack Parameters for **S2.197**
   Stack Height: 100.0 feet
   Stack Diameter: 1.00 feet
   Stack Temperature: 68.0 °F
   Exhaust Flow: 816.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.197** shall not exceed **160.0** tons of **lime** per hour, averaged over a calendar day, nor more than **87,600.0** tons per 12-month rolling period.
   b. The maximum allowable throughput rate for **PF1.052** shall not exceed **10.0** tons of **lime** per hour, averaged over a calendar day.
   c. Hours
      (1) **S2.197 and PF1.052,** each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.197** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.16** pounds per hour, nor more than **0.043** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.054** pounds per hour, nor more than **0.015** tons per 12-month rolling period.
      (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 **0.0082** pounds per hour, nor more than **0.0022** tons per 12-month rolling period.
      (4) NAC 445B.22017 – The opacity from the **S2.197** shall not equal or exceed **20** percent.
      (5) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.197** shall not exceed **56.1** pounds per hour.
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.052** the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.048** pounds per hour, nor more than **0.21** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.028** pounds per hour, nor more than **0.12** tons per 12-month rolling period.
      (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 **0.0042** pounds per hour, nor more than **0.019** tons per 12-month rolling period.
      (4) NAC 445B.22017 – The opacity from **PF1.052** shall not equal or exceed **20** percent.
      (5) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.052** shall not exceed **19.2** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

BC. Emission Units S2.197 and PF1.052 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.197 and PF1.052**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.197 and PF1.052**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the vent filter controlling **S2.197** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the vent filter installed on **S2.197** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.

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Section IV. Specific Operating Conditions (continued)

BD. Emission Unit PF1.053

System 55 – Quicklime Belt Feeder		Location UTM (Zone 11, NAD 83)	
		m North	m East
PF1.053	Quicklime Belt Feeder transfer to Covered Z Belt	4,523,022	731,743

1. Air Pollution Control Equipment (NAC 445B.3405)
   PF1.053 has no add-on controls.

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **PF1.053** shall not exceed **10.0** tons of **lime** per hour, averaged over a calendar day.
   b. Hours
      (1) **PF1.053** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.053** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.048** pounds per hour, nor more than **0.21** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.028** pounds per hour, nor more than **0.12** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0042** pounds per hour, nor more than **0.019** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from **PF1.053** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **PF1.053** shall not exceed **19.2** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **PF1.053** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **PF1.053** for each calendar day.

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Section IV. Specific Operating Conditions (continued)

BE. Emission Unit S2.198

System 56 – GRAYBOND Ball Mill Air Classifier		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.198	Air Classifier and associated transfers (In: Ball Mill; Out: Ball Mill and Product Classifier Baghouse)	4,523,054	731,815

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.198** shall be controlled by a **Product Classifier Baghouse**.
   b. Descriptive Stack Parameters
      Stack Height: 85.0 feet
      Stack Diameter: 5.00 feet
      Stack Temperature: 149.0 °F
      Exhaust Flow: 48,200.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.198** shall not exceed **60.0** tons of **pozzolanic cement** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.198** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.198** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **1.69** pounds per hour, nor more than **7.42** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **1.69** pounds per hour, nor more than **7.42** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **1.69** pounds per hour, nor more than **7.42** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from the **S2.198** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.198** shall not exceed **46.3** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

BE. Emission Unit S2.198 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.198** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.198** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.198** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.198** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **S2.198** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Particulate Matter emissions from **S2.198** will not exceed **0.032 g/dscm** (**5.78** lb/hr). (40 CFR Part 60.672(b))
   b. The Permittee of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions must conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR part 60, appendix A-7). (40 CFR 60.674(c))
   c. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   d. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.198** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

BF. Emission Unit S2.199

System 57 – GRAYBOND Ball Mill		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.199	Ball Mill and associated transfers (In: Reclaim Belt Conveyor, Covered Z Belt, and Air Classifier; Out: Air Classifier via Enclosed Screw Conveyors, Main Storage Silos #1 and #2 via Enclosed Screw Conveyors)	4,523,049	731,822

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.199** shall be controlled by a **Product Dust Collector**.
   b. Descriptive Stack Parameters
      Stack Height: 36.0 feet
      Stack Diameter: 2.00 feet
      Stack Temperature: 149.0 °F
      Exhaust Flow: 7,600.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.199** shall not exceed **60.0** tons of **pozzolanic cement** per hour, averaged over a calendar day.
   b. Hours
      (1) **S2.199** may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.199** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.27** pounds per hour, nor more than **1.17** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.27** pounds per hour, nor more than **1.17** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.27** pounds per hour, nor more than **1.17** tons per 12-month rolling period.
   d. NAC 445B.22017 – The opacity from the **S2.199** shall not equal or exceed **20** percent.
   e. NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.199** shall not exceed **46.3** pounds per hour.

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Section IV. Specific Operating Conditions (continued)

BF. Emission Unit S2.199 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.199** for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.199** for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.199** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the baghouse installed on **S2.199** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   g. 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
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **S2.199** will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Particulate Matter emissions from **S2.199** will not exceed **0.032 g/dscm** (**0.91** lb/hr). (40 CFR Part 60.672(b))
   b. The Permittee of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions must conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR part 60, appendix A-7). (40 CFR 60.674(c))
   c. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   d. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.199** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

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Section IV. Specific Operating Conditions (continued)

BG. Emission Units S2.200 through S2.203

System 58 – GRAYBOND Product Silos		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.200	Main Storage Silo #060 Loading	4,523,045	731,820
S2.201	Main Storage Silo #070 Loading	4,523,045	731,820
S2.202	Main Storage Silo #060 Discharge to Truck	4,523,040	731,823
S2.203	Main Storage Silo #070 Discharge to Truck	4,523,044	731,830

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. Emissions from **S2.200 and S2.201**, combined, shall be controlled by a **vent filter**.
   b. Emissions from **S2.202 and S2.203**, each, shall be controlled by a **Baghouse**.
   c. Descriptive Stack Parameters for **S2.200 and S2.201**
      Stack Height: 97.0 feet
      Stack Diameter: 1.00 feet
      Stack Temperature: 68.0 °F
      Exhaust Flow: 816.0 dry standard cubic feet per minute (dscfm)
   d. Descriptive Stack Parameters for **S2.202 and S2.203**, each
      Stack Height: 23.0 feet
      Stack Diameter: 1.00 feet
      Stack Temperature: 70.0 °F
      Exhaust Flow: 1,000.0 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)
   a. The maximum allowable throughput rate for **S2.200 and S2.201**, each, shall not exceed **60.0** tons of **pozzolanic cement** per hour, averaged over a calendar day.
   b. The maximum allowable throughput rate for **S2.202 and S2.203**, each, shall not exceed **80.0** tons of **pozzolanic cement** per hour, averaged over a calendar day, nor more than **525,600.0** tons per 12-month rolling period.
   c. Hours
      (1) **S2.200 through S2.203** , each, may operate a total of **24** hours per day.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   a. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **the exhaust stack of the bin vent**, the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.059** pounds per hour, nor more than **0.26** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.020** pounds per hour, nor more than **0.089** tons per 12-month rolling period.
      (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 **0.0031** pounds per hour, nor more than **0.013** tons per 12-month rolling period.
      (4) NAC 445B.22017 – The opacity from the **exhaust stack of the bin vent** shall not equal or exceed **20** percent.
      (5) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.200 and S2.201**, each, shall not exceed **46.3** pounds per hour.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

BG. Emission Units S2.200 through S2.203 (continued)

3. Emission Limits (NAC 445B.305, NAC 445B.3405) (continued)
   b. The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.202 and S2.203**, each, the following pollutants in excess of the following specified limits:
      (1) The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.043** pounds per hour, nor more than **0.19** tons per 12-month rolling period.
      (2) The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.043** pounds per hour, nor more than **0.19** tons per 12-month rolling period.
      (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 **0.043** pounds per hour, nor more than **0.19** tons per 12-month rolling period.
      (4) NAC 445B.22017 – The opacity from **S2.202 and S2.203**, each, shall not equal or exceed **20** percent.
      (5) NAC 445B.22033 – The maximum allowable discharge of **PM_{10}** to the atmosphere from **S2.202 and S2.203**, each, shall not exceed **49.1** pounds per hour.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
   The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the throughput for **S2.200 through S2.203**, each, for each calendar day.
   b. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
   c. Record the throughput rate of material, in tons, on a cumulative monthly basis, for each 12-month rolling period.
   d. Monitor and record the hours of operation for **S2.200 through S2.203**, each, for each calendar day.
   e. Conduct and record an observation of visible emissions (excluding water vapor) on the vent filter controlling **S2.200 and S2.201** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   f. Inspect the vent filter installed on **S2.200 and S2.201** on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
   g. Conduct and record an observation of visible emissions (excluding water vapor) on the baghouse controlling **S2.202 and S2.203**, 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, the Permittee shall conduct and record a Method 9 visible emission test. Each Method 9 visible emission test shall be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A. The Permittee shall maintain in a contemporaneous log the following recordkeeping: the calendar date of any required monitoring, results of the monthly visible emissions, and any corrective actions taken.
   h. Inspect the baghouse installed on **S2.202 and S2.203**, each, on a **monthly** basis in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric), and any corrective actions taken.
   i. 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))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

BG. Emission Units S2.200 through S2.203 (continued)

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
   a. On and after the sixtieth day after achieving the maximum production rate at which **S2.200 through S2.203**, each, will be operated, but not later than 180 days after initial startup, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Particulate Matter emissions from **S2.200 and S2.201**, combined, will not exceed **0.032 g/dscm** (**0.098** lb/hr) and **7 percent** opacity for dry control devices on individual enclosed storage bins. (40 CFR Part 60.672(b))
      (2) Particulate Matter emissions from **S2.202 and S2.203**, each, will not exceed **0.032 g/dscm** (**0.12** lb/hr) and **7 percent** opacity for dry control devices on individual enclosed storage bins. (40 CFR Part 60.672(b))
   b. The Permittee of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions must conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR part 60, appendix A-7). (40 CFR 60.674(c))
   c. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to 40 CFR 60.4(b). (40 CFR 60.676(k))
   d. At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.200 through S2.203**, each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

BH. Emission Unit S2.208

System 59 – Emergency Generator		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.208	Emergency Diesel Fired Generator (74.9 kW, Caterpillar, manufactured 2008 or later)	4,522,722	731,431

1. Air Pollution Control Equipment (NAC 445B.3405)
   a. **S2.208** has no add-on controls.
   b. Descriptive Stack Parameters
      Stack Height: 4.0 feet
      Stack Diameter: 0.33 feet
      Stack Temperature: 1,060 °F

2. Operating Parameters (NAC 445B.3405)
   a. **S2.208** may consume only **diesel**.
   b. The maximum allowable fuel consumption rate for **S2.208** shall not exceed **5.02 gallons** per hour, averaged over a calendar day, nor more than **502.0 gallons** per 12-month rolling period of non-emergency use.
   c. Hours
      (1) **S2.208** may operate a total of **24** hours per day.
      (2) **S2.208** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
   The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.208** the following pollutants in excess of the following specified limits:
   a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.066** pounds per hour, nor more than **0.0033** tons per 12-month rolling period.
   b. The discharge of **PM_{10}** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.066** pounds per hour, nor more than **0.0033** tons per 12-month rolling period.
   c. The discharge of **$PM_{2.5}$** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.066** pounds per hour, nor more than **0.0033** tons per 12-month rolling period.
   d. The discharge of **SO_2** (sulfur dioxide) to the atmosphere shall not exceed **0.0010** pounds per hour, nor more than **0.000052** tons per 12-month rolling period.
   e. The discharge of **NO_X** (oxides of nitrogen) to the atmosphere shall not exceed **0.78** pounds per hour, nor more than **0.039** tons per 12-month rolling period.
   f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **0.83** pounds per hour, nor more than **0.041** tons per 12-month rolling period.
   g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.25** pounds per hour, nor more than **0.013** tons per 12-month rolling period.
   h. NAC 445B.22017 – The opacity from the **S2.208** shall not equal or exceed **20** percent.
   i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.208** shall not exceed **0.49** pounds per hour.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

BH. Emission Unit S2.208 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
   a. Monitor and record the consumption rate of **diesel** for each calendar day for **S2.208** (in gallons) by multiplying the hourly fuel consumption rate as stated in **BH.2.b.** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as provided on the manufacturer's specification, to be kept onsite with records.
   b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
   c. Monitor and record the total daily hours of operation for **S2.208** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
   d. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.
   e. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (40 CFR 60.7(b))

5. Federal Requirements
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
   a. Emissions Standards (40 CFR 60.4205)
   The Permittee must comply with the emission standards for new non-road CI (compression ignition) ICE (internal combustion engine) in 40 CR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. (40 CFR 60.4205(b))
      (1) For a 2007 model year and later Tier **3** non-road engine with a rated power greater than or equal to 37 kW (50 hp) and less than 75 kW (100 hp): (40 CFR 60.4202(a), 40 CFR 1039 Appendix I)
         (a) The discharge of PM to the atmosphere shall not exceed **0.40** grams/kW-hr (**0.066** pounds per hour).
         (b) The discharge of CO to the atmosphere shall not exceed **5.0** grams/kW-hr (**0.83** pounds per hour).
         (c) The discharge of NMHC (non-methane hydrocarbon) + NO_X to the atmosphere shall not exceed **4.7** grams/kW-hr (**0.78** pounds per hour).
      (2) Exhaust opacity must not exceed: (40 CFR 60.4202(a)(1)(i), 40 CFR 1039.105(b))
         (a) 20 percent during acceleration mode;
         (b) 15 percent during the lugging mode; and
         (c) 50 percent during the peaks in either the acceleration or lugging modes.
   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))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

BH. Emission Unit S2.208 (continued)

5. Federal Requirements (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

d. Compliance Requirements (40 CFR 60.4206, 40 CFR 60.4211)

(1) The Permittee must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)

(2) The Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Part 1068. (40 CFR 60.4211(a))

(3) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in **BH.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 **BH.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 **BH.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 **BH.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 **BH.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 **BH.5.d.(4)(b)** of this section. Except as provided in paragraph **BH.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))

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IV. Specific Operating Conditions (continued)

BH. Emission Unit S2.208 (continued)

5. Federal Requirements (continued)
New Source Performance Standards (NSPS) – 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
   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 60.4211(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))

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

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section V. Continuous Emissions Monitoring System (CEMS) Conditions

A. SO_2 Continuous Emissions Monitoring System (CEMS) Requirements for System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044) (NAC 445B.3405)

1. On or before the date of start-up of **System 10 (S2.031, S2.032, and S2.033)**, **System 13 (S2.036, S2.037, and S2.038)**, and **System 17 (S2.042, S2.043, and S2.044)**, each, the Permittee shall install, calibrate, operate, and maintain an **SO_2** CEMS in the exhaust stacks of **System 10 (S2.031, S2.032, and S2.033)**, **System 13 (S2.036, S2.037, and S2.038)**, and **System 17 (S2.042, S2.043, and S2.044)**, each. The CEMS sampling probe must be installed at an appropriate location in the exhaust stacks to accurately and continuously measure the concentration of **SO_2** (in ppm) from **System 10 (S2.031, S2.032, and S2.033)**, **System 13 (S2.036, S2.037, and S2.038)**, and **System 17 (S2.042, S2.043, and S2.044)**, in accordance with the requirements prescribed in Nevada Administrative Code (NAC) 445B.252 to NAC 445B.267, applicable subparts 40 CFR Part 60 Appendix B and Appendix F. Verification of the operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the devices.

2. The Permittee shall comply with the following method performance specifications (40 CFR Part 60 Appendix B PS-2 Section 13.0):
   a. Calibration Drift
   b. Relative Accuracy

3. The Permittee shall develop and implement a Quality Control (QC) program. As a minimum, each QC program must include written procedures which should describe in detail, complete, step-by-step procedures and operations for each of the following activities (40 CFR Part 60 Appendix F Procedure 1 Section 3.0):
   a. Calibration of CEMS
   b. Calibration maintenance of CEMS (including spare parts inventory)
   c. Preventative maintenance of CEMS (including spare parts inventory)
   d. Data recording, calculations, and reporting
   e. Accuracy audit procedures including sampling and analysis methods
   f. Program of corrective action for malfunctioning CEMS

4. The written procedures under **V.A.3.** of this section, must be kept on record and available for inspection by the Director. (40 CFR Part 60 Appendix F Procedure 1 Section 3.0)

5. The Permittee shall conduct a Calibration Drift Assessment according to 40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2. (40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2).

6. The Permittee shall record and report all CEMS data according to 40 CFR Part 60 Appendix F Procedure 1 Section 4.4. All measurements from the CEMS must be retained on file by the Permittee for at least 2 years. (40 CFR Part 60 Appendix F Procedure 1 Section 4.4)

7. Each CEMS must be audited at least once each calendar quarter. Successive quarterly audits shall occur no closer than 2 months. The audits shall be conducted as follows (40 CFR Part 60 Appendix F Procedure 1 Section 5.1):
   a. The Relative Accuracy Test (RATA) shall be conducted once every four calendar quarters. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.1)
   b. The Cylinder Gas Audit (CGA) shall be conducted every quarter except when a RATA is conducted. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.2)

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section V. Continuous Emissions Monitoring System (CEMS) Conditions (continued)

A. SO_2 CEMS Requirements for System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044) (NAC 445B.3405) (continued)

8. Unless specified otherwise in the applicable subpart, the Permittee shall comply with the relative accuracy criteria:
   a. For RATA (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(1)):
      (1) For **SO_2** emissions, RA shall be less than or equal to 20% (if the value determined by the Reference Method (RM) is greater than 50% of the emission limit) or RA shall be less than or equal to 10% (if the value determined by the RM is less than 50% of the emission limit). (40 CFR Part 60 Appendix B PS-2 Section 13.2)
   b. For CGA ±15 percent of the average audit value for ±5 ppm, whichever is greater. (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(2))

9. The Permittee shall conduct and report to the Director a quarterly audit as specified under 40 CFR Part 60 Appendix F Procedure 1 Section 7.0. (40 CFR Part 60 Appendix F Procedure 1 Section 7.0)

B. NO_X (CEMS) Requirements for System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044) (NAC 445B.3405)

1. Within 240 days upon issuance of this operating permit, the Permittee shall install, calibrate, operate, and maintain a **NO_X** CEMS in the exhaust stacks of **System 10 (S2.031, S2.032, and S2.033)**, **System 13 (S2.036, S2.037, and S2.038)**, and **System 17 (S2.042, S2.043, and S2.044)**, each. The CEMS sampling probe must be installed at an appropriate location in the exhaust stacks to accurately and continuously measure the concentration of **NO_X** (in ppm) from **System 10 (S2.031, S2.032, and S2.033)**, **System 13 (S2.036, S2.037, and S2.038)**, and **System 17 (S2.042, S2.043, and S2.044)**, in accordance with the requirements prescribed in Nevada Administrative Code (NAC) 445B.252 to NAC 445B.267, applicable subparts 40 CFR Part 60 Appendix B and Appendix F. Verification of the operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the devices.

2. The Permittee shall comply with the following method performance specifications (40 CFR Part 60 Appendix B PS-2 Section 13.0):
   a. Calibration Drift
   b. Relative Accuracy

3. The Permittee shall develop and implement a Quality Control (QC) program. As a minimum, each QC program must include written procedures which should describe in detail, complete, step-by-step procedures and operations for each of the following activities (40 CFR Part 60 Appendix F Procedure 1 Section 3.0):
   a. Calibration of CEMS
   b. Calibration maintenance of CEMS (including spare parts inventory)
   c. Preventative maintenance of CEMS (including spare parts inventory)
   d. Data recording, calculations, and reporting
   e. Accuracy audit procedures including sampling and analysis methods
   f. Program of corrective action for malfunctioning CEMS

4. The written procedures under **V.A.3.** of this section, must be kept on record and available for inspection by the Director. (40 CFR Part 60 Appendix F Procedure 1 Section 3.0)

5. The Permittee shall conduct a Calibration Drift Assessment according to 40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2. (40 CFR Part 60 Appendix F Procedure 1 Sections 4.1 and 4.2).

6. The Permittee shall record and report all CEMS data according to 40 CFR Part 60 Appendix F Procedure 1 Section 4.4. All measurements from the CEMS must be retained on file by the Permittee for at least 2 years. (40 CFR Part 60 Appendix F Procedure 1 Section 4.4)

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section V. Continuous Emissions Monitoring System (CEMS) Conditions (continued)

B. NO_x (CEMS) Requirements for System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044) (NAC 445B.3405) (continued)

7. Each CEMS must be audited at least once each calendar quarter. Successive quarterly audits shall occur no closer than 2 months. The audits shall be conducted as follows (40 CFR Part 60 Appendix F Procedure 1 Section 5.1):
   a. The Relative Accuracy Test (RATA) shall be conducted once every four calendar quarters. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.1)
   b. The Cylinder Gas Audit (CGA) shall be conducted every quarter except when a RATA is conducted. (40 CFR Part 60 Appendix F Procedure 1 Section 5.1.2)

8. Unless specified otherwise in the applicable subpart, the Permittee shall comply with the relative accuracy criteria:
   a. For RATA (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(1)):
      (1) For **NO_x** emissions, RA shall be less than or equal to 20% (if the value determined by the Reference Method (RM) is greater than 50% of the emission limit) or RA shall be less than or equal to 10% (if the value determined by the RM is less than 50% of the emission limit). (40 CFR Part 60 Appendix B PS-2 Section 13.2)
   b. For CGA ±15 percent of the average audit value for ±5 ppm, whichever is greater. (40 CFR Part 60 Appendix F Procedure 1 Section 5.2.3(2))

9. The Permittee shall conduct and report to the Director a quarterly audit as specified under 40 CFR Part 60 Appendix F Procedure 1 Section 7.0. (40 CFR Part 60 Appendix F Procedure 1 Section 7.0)

C. NAC 445B.265

Monitoring systems: Records; Reports

1. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of an affected facility and any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.
2. The Permittee required to install a continuous monitoring system shall submit a written report of excess emissions to the director for every calendar quarter. All quarterly reports must be postmarked by the 30th day following the end of each calendar quarter and must include the following information:
   a. The magnitude of excess emissions computed in accordance with NAC 445B.256 to 445B.267, inclusive, any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
   b. Specific identification of each period of excess emissions that occurs during start-ups, shutdowns and malfunctions of the affected facility.
   c. The nature and cause of any malfunction, if known, the corrective action taken or preventative measures adopted.
   d. Specific identification of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of any repairs or adjustments that were made.
      (1) When no excess emissions have occurred and the continuous monitoring system has not been inoperative, repaired or adjusted, such information shall be included in the report.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section V. Continuous Emissions Monitoring System (CEMS) Conditions (continued)

C. NAC 445B.265 (continued)

Monitoring systems: Records; Reports (continued)

3. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain a file of all measurements, including:
   a. Continuous monitoring systems, monitoring devices and performance testing measurements;
   b. All continuous monitoring system performance evaluations;
   c. All continuous monitoring systems or monitoring device calibration checks;
   d. Adjustments and maintenance performed on these systems or devices; and
   e. All other information required by NAC 445B.256 to 445B.267, inclusive, recorded in a permanent form suitable for inspection.
      (1) The file shall be retained for at least 2 years following the date of the measurements, maintenance, reports and records.

******End of Continuous Emissions Monitoring System (CEMS) Conditions******

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section VI. Continuous Opacity Monitoring System (COMS) Conditions

A. Continuous Opacity Monitoring System (COMS) Requirements for System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044) (NAC 445B.3405)

1. On or before the date of start-up of **System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044)**, each, the Permittee shall install, calibrate, operate, and maintain **COMS** in the exhaust stacks of **System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044)**, each, along with the automated Data Acquisition Handling System (DAHS) required under 40 CFR part 60 Appendix B Performance Specification 1 (PS-1) Section 6.1 for measuring and recording the opacity of emissions (in percent opacity) discharged to the atmosphere. The DAHS shall provide a continuous, permanent record of all measurements and required information in an electronic format. The opacity monitor must be installed at a location in the exhaust stacks of **System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044)**, to accurately and continuously measure the opacity discharged to the atmosphere in accordance with all the requirements prescribed in NAC 445B.525 to NAC 445B.267 and 40 CFR Part 60 Appendix B PS-1.

2. The Permittee may select to establish a reduced full scale range of no less than 50 percent opacity instead of the 80 percent as prescribed in 40 CFR Part 60 Appendix B PS-1 Section 3.5, if the applicable opacity limit for the facility is less than 10 percent. (40 CFR Part 60, Appendix B, PS-1, Section 1.3)

3. The Permittee shall comply with the following field audit performance specifications for the installed COMS (40 CFR Part 60 Appendix B PS-1 Section 13.3):
   a. Optical Alignment
   b. Calibration Error
   c. System Response Time
   d. Averaging Period Calculation and Recording
   e. Operational Test Period
   f. Zero and Upscale Calibration Drift Error

4. The Permittee shall conduct the basic functions for each COMS, including the following (40 CFR Part 60 Appendix F Procedure 3 Section 2.0):
   a. Daily instrument zero and upscale drift checks and status indicator checks;
   b. Quarterly performance audits which include the following assessments:
      (1) Optical alignment,
      (2) Calibration error, and
      (3) Zero compensation.
   c. Annual zero alignment.

5. Quarterly performance audits may be reduced to a semi-annual frequency if the Permittee achieves quality assured data for four consecutive quarters. (40 CR Part 60 Appendix F Procedure 3 Section 2.0)

6. The Permittee shall develop and implement a Quality Control (QC) program for COMS. The QC program shall, at a minimum, include written procedures which describe in detail complete step-by-step procedures and operations for the following (40 CFR Part 60 Appendix F Procedure 3 Section 9.0):
   a. Procedures for performing drift checks, including both zero and upscale drift and the status indicators check,
   b. Procedures for performing quarterly performance audits,
   c. A means of checking the zero alignment of the COMS, and
   d. A program of corrective action for a malfunctioning COMS.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section VI. Continuous Opacity Monitoring System (COMS) Conditions (continued)

A. COMS Requirements for System 10 (S2.031, S2.032, and S2.033), System 13 (S2.036, S2.037, and S2.038), and System 17 (S2.042, S2.043, and S2.044) (NAC 445B.3405) (continued)

7. These written procedures must be kept on record and available for inspection by the Director. (40 CFR Part 60 Appendix F Procedure 3, Section 9.1)

8. The Permittee shall follow the calibration and standardization procedures under 40 CFR Part 60 Appendix F Procedure 3 Sections 10.0(1) through 10.0(3) (40 CFR Part 60 Appendix F Procedure 3 Section 10.0):
   a. Daily system checks
   b. COMS performance audit once per operating quarter
   c. At least annually, a zero alignment

9. The Permittee shall meet the following audit accuracy requirements (40 CFR Part 60 Appendix F Procedure 3 Section 10.4):
   a. The zero alignment shall not exceed 2 percent opacity
   b. For quarterly performance audit criteria:
      (1) The optical alignment indicator does not show proper alignment
      (2) Zero compensation shall not exceed 4 percent opacity
      (3) Calibration error shall not exceed 3 percent opacity

10. The Permittee shall report all COMS data according to 40 CFR Part 60 Appendix F Procedure 3 Sections 10.9 and 10.10. (40 CFR Part 60 Appendix F Procedure 3 Sections 10.9 through 10.10)

B. NAC 445B.265

Monitoring systems: Records; Reports

1. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of an affected facility and any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.
2. The Permittee required to install a continuous monitoring system shall submit a written report of excess emissions to the director for every calendar quarter. All quarterly reports must be postmarked by the 30th day following the end of each calendar quarter and must include the following information:
   a. The magnitude of excess emissions computed in accordance with NAC 445B.256 to 445B.267, inclusive, any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
   b. Specific identification of each period of excess emissions that occurs during start-ups, shutdowns and malfunctions of the affected facility.
   c. The nature and cause of any malfunction, if known, the corrective action taken or preventative measures adopted.
   d. Specific identification of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of any repairs or adjustments that were made.
      (1) When no excess emissions have occurred and the continuous monitoring system has not been inoperative, repaired or adjusted, such information shall be included in the report.

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section VI. Continuous Opacity Monitoring System (COMS) Conditions (continued)

B. NAC 445B.265

Monitoring systems: Records; Reports (continued)

3. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain a file of all measurements, including:
   a. Continuous monitoring systems, monitoring devices and performance testing measurements;
   b. All continuous monitoring system performance evaluations;
   c. All continuous monitoring systems or monitoring device calibration checks;
   d. Adjustments and maintenance performed on these systems or devices; and
   e. All other information required by NAC 445B.256 to 445B.267, inclusive, recorded in a permanent form suitable for inspection.
      (1) The file shall be retained for at least 2 years following the date of the measurements, maintenance, reports and records.

******End of Continuous Opacity Monitoring System (COMS) Conditions******

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section VII. Emission Caps

A. Not Applicable.

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

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section VII. Surface Area Disturbance Conditions

The surface area disturbance for **Pilot Peak Project** is **500** acres.

A. Fugitive Dust (NAC 445B.22037)

1. Permittee may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne.
2. Except as otherwise provided in subsection 4, Permittee may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, "best practical methods" includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.
3. Except as provided in subsection 4, Permittee may not disturb or cover 5 acres or more of land or its topsoil until Permittee has obtained an Operating permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of 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******

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section IX. Schedules of Compliance

A. Not Applicable

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

Facility ID No. A0367 *Permit No.* AP3274-1329.04
CLASS I AIR QUALITY OPERATING PERMIT

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Section X. Amendments

This permit:

1. **Shall be posted conspicuously at or near the stationary source. (NAC 445B.318(5))**
2. **Shall expire and be subject to renewal five (5) years from:** January 22, 2024 **. (NAC 445B.315(3)(a))**
3. **A completed application for renewal of an operating permit must be submitted to the Director on the form provided by the Director with the appropriate fee at least 240 calendar days before the expiration date of this operation permit (NAC 445B.3443(2)). The Director shall determine whether the application is complete within 60 days of receipt of the application (NAC 445B.3395).**
4. **Any party aggrieved by the Department's decision to issue this permit may appeal to the State Environmental Commission (SEC) within ten days after the date of notice of the Department's action. (NRS 445B.340)**

THIS PERMIT EXPIRES ON: January 22, 2029

Signature: _____

Issued by: Jaimie Mara
Supervisor, Permitting Branch
Bureau of Air Pollution Control

Phone: (775) 687- 9343 Date: **Signature Date**

dr XX/XXXX

Facility ID No. A0367 *Permit No.* AP3274-1329.04
CLASS I AIR QUALITY OPERATING PERMIT

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Class I Non-Permit Equipment List

Appended to Permit #AP3274-1329.04

Emission Unit #	Emission Unit Description
IA1.001	Smart Ash 100 Disposal Unit
IA1.002	Diesel/Oil Storage Tank (<1,100 gallons)
IA1.003	Diesel/Oil Storage Tank (<1,100 gallons)
IA1.004	Diesel/Oil Storage Tank (<1,100 gallons)
IA1.005	Diesel/Oil Storage Tank (<1,100 gallons)
IA1.006	Oil Storage Tank (< 10,000 gallon)
IA1.007	Oil Storage Tank (< 10,000 gallon)
IA1.008	Oil Storage Tank (< 10,000 gallon)
IA1.009	Oil Storage Tank (< 10,000 gallon)
IA1.010	Oil Storage Tank (< 10,000 gallon)
IA1.011	Oil Storage Tank (< 10,000 gallon)
IA1.012	Oil Storage Tank (< 10,000 gallon)
IA1.013	Oil Storage Tank (< 10,000 gallon)
IA1.014	Parts Cleaners - Cold Cleaning Only
IA1.015	Propane Fired Space Heater - Warehouse
IA1.016	Propane Fired Space Heater - Maintenance #1
IA1.017	Propane Fired Space Heater - Maintenance #2
IA1.018	Propane Fired Space Heater - Maintenance #3
IA1.019	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.020	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.021	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.022	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.023	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.024	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.025	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.026	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.027	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.028	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.029	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.030	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.031	Baghouse Discharge of Collected Dust via Baghouse Conveyor
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IA1.039	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.040	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.041	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.042	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.043	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.044	Baghouse Discharge of Collected Dust via Baghouse Conveyor
IA1.045	Baghouse Discharge of Collected Dust via Baghouse Conveyor

Issued to: GRAYMONT WESTERN US INC. (AS PERMITTEE) – PILOT PEAK PLANT

Class I Non-Permit Equipment List (continued)

Appended to Permit #AP3274-1329.04

Emission Unit #	Emission Unit Description
IA1.046	Screen S-1 Conveyor Scrapper Chute
IA1.047	Screen S-2 Conveyor Scrapper Chute