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

BUREAU OF AIR POLLUTION CONTROL

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Facility ID No. A0030 *Permit No.* AP3241-0387.02

CLASS I AIR QUALITY OPERATING PERMIT GENERAL REQUIREMENTS

Issued to: Nevada Cement Company, hereafter called the Permittee
Mailing Address: P.O. BOX 840, FERNLEY, NEVADA 89408-0840
Physical Address: INTERSTATE 80, EXIT 46, FERNLEY, NEVADA
General Facility Location: Section(s) 10 & 11, T20N, R24E, MDB&M (HA 76)

Emission Unit List: (137 Emission Units)

A. System 01 -	Limestone Truck Dump
PF1.001	Limestone Truck Dump to Primary Crusher Hooper 101
B. System 02 -	Primary Crusher Circuit
S2.001	Primary Crusher Hopper 101 transfer to Primary Crusher 102
S2.002	Primary Crusher 102
S2.003	Primary Crusher 102 to Apron Feeder-103
S2.004	Apron Feeder-103 transfer to Conveyor 104
S2.005	Drag Chain Conveyor 103-1 transfer to Conveyor 104
S2.006	Conveyor 104 transfer to Primary Crusher-102
C. System 03 and 04 -	Secondary Screening Circuit & Secondary Crusher Circuit
S2.007	Conveyor 104 transfer to Shaker Screen 106-1
S2.008	Shaker Screen 106-1
S2.009	Shaker Screen 106-1 transfer to Conveyor 107
S2.010	Shaker Screen 106-1 transfer to Conveyor 108
S2.011	Shaker Screen 106-1 transfer to Conveyor 106-2
S2.012	Conveyor 106-2 transfer to Conveyor 106-3
S2.013	Conveyor 106-3 transfer to Secondary Crusher 106
S2.014	Secondary Crusher 106 transfer to Conveyor 106-4
S2.015	Secondary Crusher 106
S2.016	Conveyor 106-4 transfer to Secondary Screen 106-1
D. System 05 -	Raw Material Storage
PF1.002	Conveyor 108 Feed End Chute
PF1.003	Conveyor 108 transfer to Conveyor 115
PF1.004	Overhead Crane 109 transfer to Storage bins (Limestone)
PF1.005	Overhead Crane 109 transfer (Iron Ore)
PF1.006	Overhead Crane 109 transfer (Clay)

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Emission Unit List: (137 Emission Units)(continued)

E-1. System 06 -	#1 Raw Mill System
S2.017	Conveyor 204 transfer to Bucket Elevator 205
S2.018	Bucket Elevator 205 transfer to Air Separator 206
S2.019	Air Separator 206 to Air Slide 207
S2.020	Air Slide 207 transfer to Pump 213
S2.021	#1 Raw Mill 208
S2.022	Heater 211 firing either 14 MMBtu/hr Natural Gas or 10.54 MMBtu/hr #2 fuel oil
E-2. System 06A -	#1 Raw Mill System - Used as a Finish Mill
S2.017	Conveyor 204 transfer to Bucket Elevator 205
S2.018	Bucket Elevator 205 transfer to Air Separator 206
S2.019	Air Separator 206 to Air Slide 207-10
S2.020	Air Slide 207-10 transfer to Pump 213-10
S2.021	#1 Raw Mill 208
S2.022	Heater 211 firing either 14 MMBtu/hr Natural Gas or 10.54 MMBtu/hr #2 fuel oil
E-3. System 06B -	#1 Raw Mill System - Used as a Pre-Grind Mill & Transferring Raw Material to #1 Finish Mill
S2.017	Conveyor 204 transfer to Bucket Elevator 205
S2.018	Bucket Elevator 205 transfer to Air Separator 206
S2.019	Air Separator 206 to Air Slide 207-11
S2.020	Air Slide 207-11 transfer to #1 Finish Mill 505
S2.021	#1 Raw Mill 208
S2.022	Heater 211 firing either 14 MMBtu/hr Natural Gas or 10.54 MMBtu/hr #2 fuel oil
F. System 07 -	Blending Operations Storage Silos
S2.023	Pump 213 transfer to Blending & Storage Silos 300-7
S2.024	Pump Silo to East or West Storage Silos
G. System 08 -	#1 Kiln Feed System
S2.025	Pump Storage Silos transfer to Kiln Feed Bin 401
S2.026	Kiln Feed Bin 401 transfer to Air Slide 401-1
S2.027	Air Slide 401-1 transfer to Bucket Elevator 402
S2.028	Bucket Elevator 402 transfer to Constant Head Feeder 404
S2.029	Constant Head Feeder 404 transfer to Kiln #1 406

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Emission Unit List: (137 Emission Units)(continued)

H. System 09 -	#1 Kiln Circuit (combusting 100% Coal or Coal/Coke blend; Non-hazardous used oils and greases; and Non-hazardous hydrocarbon contaminated soils)
S2.030	Kiln #1 406
S2.031	Coal Mill 805
S2.032	Screw Conveyors 420-2 & 420-3 to 420-1
S2.033	Screw Conveyor 416 transfer to Screw Conveyor 420-4
S2.034	Screw Conveyor 414-1 transfer to Screw Conveyor 420-4
S2.035	Screw Conveyor 420-1 to Screw Conveyor 420-4
S2.036	Screw Conveyor 420-4 transfer to Bucket Elevator 414
S2.037	Rotary Feeder 417 transfer to Bucket Elevator 414
S2.038	Bucket Elevator 414 transfer to Kiln #1 406
I. System 09A -	#1 Kiln Circuit / Alternative Operating Scenario (combusting 100% Natural Gas)
S2.030	Kiln #1 406
S2.031	Coal Mill 805
S2.032	Screw Conveyors 420-2 & 420-3 to 420-1
S2.033	Screw Conveyor 416 transfer to Screw Conveyor 420-4
S2.034	Screw Conveyor 414-1 transfer to Screw Conveyor 420-4
S2.035	Screw Conveyor 420-1 to Screw Conveyor 420-4
S2.036	Screw Conveyor 420-4 transfer to Bucket Elevator 414
S2.037	Rotary Feeder 417 transfer to Bucket Elevator 414
S2.038	Bucket Elevator 414 transfer to Kiln #1 406
J. System 10 -	#1 Kiln Clinker Cooler System
S2.039	Kiln #1 Clinker Cooler 408
S2.040	Clinker Breaker 409 transfer to Drag Chain 410
S2.041	Drag Chain 410 to Bucket Elevators 412-1 or 412-2
S2.042	Bucket Elevators 412-1 or 412-2 to Clinker Storage Stacker Tube 412-4
K. System 11 -	#1 Finish Mill Operations
S2.043	Conveyor 504 transfer to #1 Finish Mill 505 or Air Slide 207-11 transfer to #1 Finish Mill 505
S2.044	#1 Finish Mill 505
S2.045	Air Slide 506 transfer to Bucket Elevator 507
S2.046	Bucket Elevator 507 transfer to Air Separator 509
S2.047	Air Separator 509 transfer to Air Slide 519-1
S2.048	Air Slide 519-1 to Air Slide 519-2 and transfer to FK Pump 512
S2.049	Dust Collector 510 transfer to FK Pump 512

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Emission Unit List: (137 Emission Units)(continued)

L-1. System 12 -	#2 Raw Mill System
S2.050	Bucket Elevator 1908 transfer to Air Separator 1910
S2.051	Screw Conveyor 1916 transfer to Air Slide 1917
S2.052	Air Separator 1910 transfer to Air Slide 1917
S2.053	Air Slide 1917 transfer to Pump 213
S2.054	Heater 1909 firing either 14 MMBtu/hr Natural Gas or 9.06 MMBtu/hr #2 fuel oil
L-2. System 12A -	#2 Raw Mill System - Used as Finish Mill
S2.050	Bucket Elevator 1908 transfer to Air Separator 1910
S2.051	Screw Conveyor 1916 transfer to Air Slide 1917-10
S2.052	Air Separator 1910 transfer to Air Slide 1917-10
S2.053	Air Slide 1917-10 transfer to Pump 213-10
S2.054	Heater 1909 firing either 14 MMBtu/hr Natural Gas or 9.06 MMBtu/hr #2 fuel oil
M. System 13 -	#2 Raw Mill
S2.055	#2 Raw Mill 1911
N. System 14 -	#1 Kiln Feed System
S2.056	Pump Storage Silos transfer to Kiln Feed Bin 2002
S2.057	Kiln Feed Bin 2002 transfer to Air Slide 2004
S2.058	Air Slide 2004 transfer to Bucket Elevator 2005
S2.059	Bucket Elevator 2005 transfer to Constant Head Feeder 2006
S2.060	Constant Head Feed Screw 2006 transfer to Kiln Feed Screw 2010
S2.061	Screw 2010 transfer to Kiln #2 2013
O. System 15 -	#2 Kiln Circuit (combusting 100% Coal or Coal/Coke blend; Non-hazardous used oils and greases; and Non-hazardous hydrocarbon contaminated soils)
S2.062	Kiln #2 2013
S2.063	Coal Mill 2043
S2.064	Baghouse Screw Conveyors to Screw Conveyor 9085
S2.065	Screw Conveyor 9085 transfer to Bucket Elevator 2010-1
S2.066	Bucket Elevator 2010-1 transfer to Screw 2009 and Dust Tank
S2.067	Dust Tank to Weigh Screw 2009-14
P. System 15A -	#2 Kiln Circuit / Alternative Operating Scenario (combusting 100% Natural Gas)
S2.062	Kiln #2 2013
S2.063	Coal Mill 2043
S2.064	Baghouse Screw Conveyors to Screw Conveyor 9085
S2.065	Screw Conveyor 9085 transfer to Bucket Elevator 2010-1
S2.066	Bucket Elevator 2010-1 transfer to Screw 2009 and Dust Tank
S2.067	Dust Tank to Weigh Screw 2009-14

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Emission Unit List: (137 Emission Units)(continued)

Q. System 16 -	**#2 Kiln Clinker Cooler and Reclaim System**
S2.068	Kiln #2 Clinker Cooler 2017
S2.069	Clinker Breaker 2020 transfer to Drag Chain 2023
S2.070	Reclaim Conveyor 2116 transfer to Bucket Elevator 2117
R. System 17 -	**#2 Kiln Clinker Handling System**
S2.071	Drag Chain 2023 transfer to Bucket Elevator 2101-1
S2.072	Bucket Elevator 2101-1 to Clinker Storage or Drag Chain 2201
S. System 18 -	**#2 Finish Mill Systems**
S2.073	Drag Chain 2201 transfer to Feed Bins 2001-6 & 2201-7
S2.074	Feed Bins 2001-6 & 2201-7 transfer to #2 Finish Mill 2203-1
S2.075	#2 Finish Mill 2203-1
S2.076	Bucket Elevator 2204-1 transfer to Air Slide 2205-1
S2.077	Air Slide 2205-1 transfer to Air Separator 2206-1
S2.078	Air Separator 2206-1 transfer to Pump 2212
T. System 19 -	**#3 Finish Mill Systems**
S2.079	Drag Chain 2201 transfer to Feed Bins 2001-8 & 2201-9
S2.080	Feed Bins 2001-8 & 2201-9 transfer to #3 Finish Mill 2203-2
S2.081	#3 Finish Mill 2203-2
S2.082	Bucket Elevator 2204-2 transfer to Screw 2205-2
S2.083	Screw Conveyor 2205-2 transfer to Air Separator 2206-2
S2.084	Air Separator 2206-2 transfer to Pump 2212
U. System 20 -	**Cement Storage Silo**
S2.085	Transfer to Storage Silo #7
V. System 21 -	**Cement Bulk Loading**
S2.086	Silo transfers to Air Slides
S2.087	Air slides transfer to Bucket Elevator 613
S2.088	Bucket Elevator 613 to Air Slides 609-4 & 701-1
S2.089	Air Slides transfer to Loading Spout 627
S2.090	Silo transfers to North Rail Storage Bin 624
S2.091	North Rail Bin transfers to Spout 627
S2.092	#1 Finish Mill Pump 512 transfer into Silos
S2.093	#2 & 3 Finish Mill Pump 2212 and #1 & #2 Raw Mill Pump 213-10 transfer into Silos
W. System 22(a) -	**Cement Bulk Loading – 1**
S2.094	Silo #12 Fill
S2.095	Silo #13 Fill
X. System 22(b) -	**Cement Bulk Loading – 4**
S2.096	Silos #12 & 13 to Loading Spouts 672-1 & 672-2

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Emission Unit List: (137 Emission Units)(continued)

Y. System 23(a) -	Cement Bulk Loading – 2
S2.097	Silo #14 Fill
Z. System 23(b) -	Cement Bulk Loading – 3
S2.098	Silo #15 Fill
AA. System 23(c) -	Cement Bulk Loading – 5
S2.099	Silos #14 & 15 to Loading Spouts 672-3 & 672-4
AB. System 24 -	Packhouse
S2.100	Pack Storage Bin transfer to Bucket Elevator 704
S2.101	Bucket Elevator 704 to Air Slide 706-1 & 705-1
S2.102	Air Slide 705-1 transfer to Packer 707 and Air Slides 706-1 and 706-2
AC. System 25(a) -	Rail Unloading/Transfer
S2.103	Rail Hopper 634-6 transfer to Air Slide 634-7 and to Transfer System 634-8
AD. System 25(b) -	Rail Unloading/Transfer
S2.104	Rail Transfer 634-8 to South Storage Bin 625
S2.105	Silo #8 Transfer to South Storage Bin 625
AE. System 26 -	Fly Ash Bulk Loading
S2.106	South Storage Bin 625 transfer to Air Slide 609-4 and Loading Spout 610
AF. System 27(a) -	Coal/Coke Handling (Rail Unloading)
PF1.007	Railcar Unloading to Conveyor 111
AG. System 27(b) -	Coal/Coke Handling (Covered Conveyors)
PF1.008	Conveyor 111 transfer to Conveyor 111-1 or 2302
PF1.009	Conveyor 2302 transfer to Conveyor 2302-1
PF1.010	Conveyor 2302-1 transfer to Conveyor 2302-2
AH. System 27(c) -	Coal/Coke Handling (Coal/Coke Storage Building)
PF1.011	Conveyor 2302-2 transfer to Belt Tripper 2303
PF1.012	Belt Tripper 2303 transfer to Coal Storage
AI. System 27(d) -	Coal/Coke Handling (Coal/Coke Storage Building)
PF1.013	Inside Storage 2300-23A transfer to Feeders 2305-1, 2B, 3, 4, 5B
PF1.014	Feeders 2305-1, 2B, 3, 4, 5B transfer to Conveyor 2306
AJ. System 27(e) -	Coal/Coke Handling (Coal/Coke Storage Building)
PF1.015	Conveyor 2306 transfer to Conveyor 2316
AK. System 27(f) -	Coal/Coke Handling (Mill Building Enclosure)
PF1.016	Conveyor 2307 transfer to Coal Mill #1 Storage Bin 803

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Emission Unit List: (137 Emission Units)(continued)

AL. System 27(g) -	Coal/Coke Handling (Mill Building Enclosure)
PF1.017	Storage Bin 803 transfer to Feeder Belt 804
PF1.018	Feeder Belt 804 transfer to Coal Mill #1 805
AM. System 27(h) -	Coal/Coke Handling (Mill Building Enclosure)
PF1.019	Conveyor 2309 transfer to Conveyor 2307
PF1.020	Conveyor 2316 transfer to Bin 2041 or Conveyor 2309
AN. System 27(i) -	Coal/Coke Handling (Mill Building Enclosure)
PF1.021	Storage Bin 2041 transfer to Feeder Belt 2042
PF1.022	Feeder Belt 2042 transfer to Coal Mill #2 2043
AO. System 28(a) -	Finish Mill Feed Storage Tank and Handling
S2.107	Pneumatic Loading and transfer to Finish Mill Feed Storage Tank
AP. System 28(b) -	Finish Mill Feed Storage Tank and Handling (Handling Conveyors)
PF1.023	Finish Mill Feed Storage Tank and transfer to Screw Conveyor (# 2242)
PF1.024	Screw Conveyor (# 2242) and transfer to Screw Conveyor (# 2243)
AQ. System 29(a) -	Cement Kiln Dust to Dump Truck
PF1.025	Dust Tank (S2.067) and transfer to Screw Conveyor (2009-2)
PF1.026	Screw Conveyor (2009-2) and transfer to Truck Loadout Spout (2009-3)
PF1.027	Truck Loadout Spout (2009-3) and transfer into Dump Truck
AR. System 29(b) -	Cement Kiln Dust to Griffin Storage Silo
PF1.028	Dust Tank (S2.067) and transfer to Griffin Storage Silo
S2.108	Griffin Storage Silo Loading
PF1.029	Griffin Storage Silo Unloading and transfer into Tank Truck

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

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Section VI. Specific Operating Conditions (continued)

E-1. Emission Unit #(s): S2.017 - S2.022, location North 4,387.894 km, East 305.8573 km, UTM (Zone 11)

E-1. System 06 -	#1 Raw Mill System
S2.017	Conveyor 204 transfer to Bucket Elevator 205
S2.018	Bucket Elevator 205 transfer to Air Separator 206
S2.019	Air Separator 206 to Air Slide 207
S2.020	Air Slide 207 transfer to Pump 213
S2.021	#1 Raw Mill 208
S2.022	Heater 211 firing either 14 MMBtu/hr Natural Gas or 10.54 MMBtu/hr #2 fuel oil

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Air Pollution Control Equipments
   a. Emissions from **S2.017 - S2.022** each shall be ducted to a control system consisting of a **Baghouse (DC 210)** with 100% capture and a maximum volume flow rate of **43,000** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 69.9
      Stack Inside Diameter (feet): 2.99
      Stack Temperature (°F): 180
      Stack Exit Velocity (ft/sec): 102.07

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Emission Limits
   a. On and after the date of startup of **S2.017 - S2.022**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (DC 210)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **6.00** pounds per hour, nor more than **26.28** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **6.00** pounds per hour, nor more than **26.28** tons per 12-month rolling period.
      (iii) NAC 445B.305 *Part 70 Program* - The discharge of NOx (nitrogen oxides) to the atmosphere will not exceed **1.91** pounds per hour, nor more than **8.38** tons per 12-month rolling period.
      (iv) NAC 445B.305 *Part 70 Program* - The discharge of CO (carbon monoxide) to the atmosphere will not exceed **1.13** pound per hour, nor more than **3.82** tons per 12-month rolling period.
      (v) NAC 445B.305 *Part 70 Program* - The discharge of SO_2 (sulfur dioxide) to the atmosphere will not exceed **0.53** pound per hour, nor more than **0.83** ton per 12-month rolling period.
      (vi) NAC 445B.305 *Part 70 Program* - The discharge of Sulfur to the atmosphere will not exceed **0.27** pound per hour, nor more than **0.42** ton per 12-month rolling period.
      (vii) NAC 445B.305 *Part 70 Program* - The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **0.50** pound per hour, nor more than **2.19** tons per 12-month rolling period.
      (viii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **47.05** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **E-1.3.a.** of this section.
      (ix) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.55** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **E-1.3.b.** of this section.
      (x) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.59** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **E-1.3.c.** of this section.
      (xi) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **9.80** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **E-1.3.b.** of this section.
      (xii) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **7.38** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **E-1.3.c.** of this section.
      (xiii) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust stack of **Baghouse (DC 210)**, will not equal or exceed 20% in accordance with NAC 445B.22017.

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Section VI. Specific Operating Conditions (continued)

E-1. Emission Unit #(s): S2.017 - S2.022 (continued)

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Operating Parameters
   a. The maximum allowable throughput rate of raw materials (limestone, clay, iron ore & slag) for the system consisting of **S2.017 - S2.021** will not exceed **65.0** tons per any one-hour period.
   b. The maximum allowable heat input rate of natural gas for **S2.022** will not exceed **14.0 MMBtu** per any one-hour period, combusting a maximum of **13,462.0** cubic feet per hour of natural gas.
   c. The maximum allowable fuel consumption rate of #2 fuel oil for **S2.022** will not exceed **75.29** gallons per any one-hour period.
   d. **S2.022** will combust pipeline quality natural gas as the primary fuel only.
   e. **S2.022** will combust #2 fuel oil as the secondary fuel in the event of natural gas curtailment, or for economic reasons.
   f. Hours
      (i) **S2.017 - S2.021** each, may operate **8,760** hours.
      (ii) **S2.022** may operate **8,760** hours, combusting pipeline quality natural gas.
      (iii) **S2.022** may operate **3,000** hours per 12-month rolling period, combusting #2 fuel oil.

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping, Reporting and Compliance
   When **System 06** is in operation, the permittee shall:
      (i) Monitor and record the throughput rate for the system consisting of **S2.017 - S2.021** on a daily basis.
      (ii) Monitor and record the fuel consumption rate of natural gas for **S2.022** on a daily basis.
      (iii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.022** on a daily basis.
      (iv) Monitor and record the hours of operation for the system consisting of **S2.017 - S2.022** on a daily basis.
      (v) Monitor and record the throughput rate for the system consisting of **S2.017 - S2.021** on a cumulative monthly basis, for each 12-month rolling period.
      (vi) Monitor and record the fuel consumption rate of natural gas for **S2.022** on a cumulative monthly basis, for each 12-month rolling period.
      (vii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.022** on a cumulative monthly basis, for each 12-month rolling period.
      (viii) Conduct a weekly observation of the **Baghouse (DC 210)** and verify that the **Baghouse (DC 210)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 210)**. Record and verify that any maintenance work on the **Baghouse (DC 210)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
      (ix) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 210)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
      (x) The required monitoring established in **(i)** through **(ix)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
         (a) The calendar date of any required monitoring.
         (b) The total daily throughput rate for the system consisting of **S2.017 - S2.021** in tons, for the corresponding date.
         (c) The total daily fuel consumption rate of natural gas for **S2.022** in cubic feet, for the corresponding date.
         (d) The total daily fuel consumption rate of #2 fuel oil for **S2.022** in gallons, for the corresponding date.
         (e) The total daily hours of operation for the system consisting of **S2.017 - S2.022** for the corresponding date.
         (f) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(e)** above.
         (g) The corresponding average hourly fuel consumption rate of natural gas in cubic feet per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(c)** and **(e)** above.
         (h) The corresponding average hourly fuel consumption rate of #2 fuel oil in gallons per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(d)** and **(e)** above.
         (i) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
         (j) The cumulative monthly fuel consumption rate of natural gas in cubic feet, for each 12-month rolling period.
         (k) The cumulative monthly fuel consumption rate of #2 fuel oil in gallons for each 12-month rolling period.
         (l) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 210)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 210)** used for control of emissions.
         (m) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.

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Section VI. Specific Operating Conditions (continued)

E-1. Emission Unit #(s): S2.017 - S2.022 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 210)**:
   (i) Method 5 (that includes the back-half catch) in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) Methods 201A and 202 tests for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) Methods 201A and 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **E-1.2.a.(i)** of this section.
   (iv) A Method 7E compliance test for NOx, Method 10 compliance test for CO, Method 6C compliance test for SO_2, and Methods 25 or 25A compliance tests for VOC in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (v) A Method 29 compliance test for metallic hazardous air pollutants (HAPs) in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (vi) Methods 320 or 321 compliance test for hydrogen chloride (HCl) and Method 320 (or Method 18 of Appendix A to 40 CFR Part 60) compliance test for specific organic HAPs in accordance with 40 CFR Part 63, Appendix A.
   (vii) For the purposes of demonstrating compliance with the opacity standard established in **E-1.2.a.(xiii)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (viii) Performance/compliance tests required under **E-1.4.b.** of this section that are conducted below the maximum allowable throughput/fuel consumption rate, as established in **E-1.3.a., E-1.3.b. and E-1.3.c.** of this section, shall be subject to the director's review to determine if the throughputs/fuel consumption rates during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (ix) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

E-2. Emission Unit #(s): S2.017 - S2.022, location North 4,387.894 km, East 305.8573 km, UTM (Zone 11)

E-2. System 06A -	#1 Raw Mill System - Used as a Finish Mill
S2.017	Conveyor 204 transfer to Bucket Elevator 205
S2.018	Bucket Elevator 205 transfer to Air Separator 206
S2.019	Air Separator 206 to Air Slide 207-10
S2.020	Air Slide 207-10 transfer to Pump 213-10
S2.021	#1 Raw Mill 208
S2.022	Heater 211 firing either 14 MMBtu/hr Natural Gas or 10.54 MMBtu/hr #2 fuel oil

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.017 - S2.022** each shall be ducted to a control system consisting of a **Baghouse (DC 210)** with 100% capture and a maximum volume flow rate of **43,000** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 69.9
      Stack Inside Diameter (feet): 2.99
      Stack Temperature (°F): 180
      Stack Exit Velocity (ft/sec): 102.07

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.017 - S2.022**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (DC 210)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **6.00** pounds per hour, nor more than **26.28** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **6.00** pounds per hour, nor more than **26.28** tons per 12-month rolling period.
      (iii) NAC 445B.305 *Part 70 Program* - The discharge of NOx (nitrogen oxides) to the atmosphere will not exceed **1.91** pounds per hour, nor more than **8.38** tons per 12-month rolling period.
      (iv) NAC 445B.305 *Part 70 Program* - The discharge of CO (carbon monoxide) to the atmosphere will not exceed **1.13** pound per hour, nor more than **3.82** tons per 12-month rolling period.
      (v) NAC 445B.305 *Part 70 Program* - The discharge of SO_2 (sulfur dioxide) to the atmosphere will not exceed **0.53** pound per hour, nor more than **0.83** ton per 12-month rolling period.
      (vi) NAC 445B.305 *Part 70 Program* - The discharge of Sulfur to the atmosphere will not exceed **0.27** pound per hour, nor more than **0.42** ton per 12-month rolling period.
      (vii) NAC 445B.305 *Part 70 Program* - The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **0.50** pound per hour, nor more than **2.19** tons per 12-month rolling period.
      (viii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **47.05** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **E-2.3.a.** of this section.
      (ix) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.55** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **E-2.3.b.** of this section.
      (x) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.59** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **E-2.3.c.** of this section.
      (xi) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **9.80** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **E-2.3.b.** of this section.
      (xii) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **7.38** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **E-2.3.c.** of this section.
      (xiii) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust stack of **Baghouse (DC 210)**, will not equal or exceed 20% in accordance with NAC 445B.22017.

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Section VI. Specific Operating Conditions (continued)

E-2. Emission Unit #(s): S2.017 - S2.022 (continued)

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput rate of raw materials (limestone, clay, iron ore & slag, pozzolan, clinker, gypsum) for the system consisting of **S2.017 - S2.021** will not exceed **65.0** tons per any one-hour period.
   b. The maximum allowable heat input rate of natural gas for **S2.022** will not exceed **14.0 MMBtu** per any one-hour period, combusting a maximum of **13,462.0** cubic feet per hour of natural gas.
   c. The maximum allowable fuel consumption rate of #2 fuel oil for **S2.022** will not exceed **75.29** gallons per any one-hour period.
   d. **S2.022** will combust pipeline quality natural gas as the primary fuel only.
   e. **S2.022** will combust #2 fuel oil as the secondary fuel in the event of natural gas curtailment, or for economic reasons.
   f. Hours
      (i) **S2.017 - S2.021** each, may operate **8,760** hours.
      (ii) **S2.022** may operate **8,760** hours, combusting pipeline quality natural gas.
      (iii) **S2.022** may operate **3,000** hours per 12-month rolling period, combusting #2 fuel oil.

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping, Reporting and Compliance
      When **System 06A** is in operation, the permittee shall:
      (i) Monitor and record the throughput rate for the system consisting of **S2.017 - S2.021** on a daily basis.
      (ii) Monitor and record the fuel consumption rate of natural gas for **S2.022** on a daily basis.
      (iii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.022** on a daily basis.
      (iv) Monitor and record the hours of operation for the system consisting of **S2.017 - S2.022** on a daily basis.
      (v) Monitor and record the throughput rate for the system consisting of **S2.017 - S2.021** on a cumulative monthly basis, for each 12-month rolling period.
      (vi) Monitor and record the fuel consumption rate of natural gas for **S2.022** on a cumulative monthly basis, for each 12-month rolling period.
      (vii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.022** on a cumulative monthly basis, for each 12-month rolling period.
      (viii) Conduct a weekly observation of the **Baghouse (DC 210)** and verify that the **Baghouse (DC 210)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 210)**. Record and verify that any maintenance work on the **Baghouse (DC 210)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
      (ix) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 210)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
      (x) The required monitoring established in **(i)** through **(ix)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
         (a) The calendar date of any required monitoring.
         (b) The total daily throughput rate for the system consisting of **S2.017 - S2.021** in tons, for the corresponding date.
         (c) The total daily fuel consumption rate of natural gas for **S2.022** in cubic feet, for the corresponding date.
         (d) The total daily fuel consumption rate of #2 fuel oil for **S2.022** in gallons, for the corresponding date.
         (e) The total daily hours of operation for the system consisting of **S2.017 - S2.022** for the corresponding date.
         (f) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(e)** above.
         (g) The corresponding average hourly fuel consumption rate of natural gas in cubic feet per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(c)** and **(e)** above.
         (h) The corresponding average hourly fuel consumption rate of #2 fuel oil in gallons per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(d)** and **(e)** above.
         (i) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
         (j) The cumulative monthly fuel consumption rate of natural gas in cubic feet, for each 12-month rolling period.
         (k) The cumulative monthly fuel consumption rate of #2 fuel oil in gallons for each 12-month rolling period.
         (l) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 210)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 210)** used for control of emissions.
         (m) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.

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Section VI. Specific Operating Conditions (continued)

E-2. Emission Unit #(s): S2.017 - S2.022 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 210)**:
   (i) Method 5 (that includes the back-half catch) in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) Methods 201A and 202 tests for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) Methods 201A and 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **E-2.2.a.(i)** of this section.
   (iv) A Method 7E compliance test for NOx, Method 10 compliance test for CO, Method 6C compliance test for SO_2, and Methods 25 or 25A compliance tests for VOC in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (v) A Method 29 compliance test for metallic hazardous air pollutants (HAPs) in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (vi) Methods 320 or 321 compliance test for hydrogen chloride (HCl) and Method 320 (or Method 18 of Appendix A to 40 CFR Part 60) compliance test for specific organic HAPs in accordance with 40 CFR Part 63, Appendix A.
   (vii) For the purposes of demonstrating compliance with the opacity standard established in **E-2.2.a.(xiii)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (viii) Performance/compliance tests required under **E-2.4.b.** of this section that are conducted below the maximum allowable throughput/fuel consumption rate, as established in **E-2.3.a., E-2.3.b. and E-2.3.c.** of this section, shall be subject to the director's review to determine if the throughputs/fuel consumption rates during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (ix) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

E-3. Emission Unit #(s): S2.017 - S2.022, location North 4,387.894 km, East 305.8573 km, UTM (Zone 11)

E-3. System 06B -	#1 Raw Mill System - Used as a Pre-Grind Mill & Transferring Raw Material to #1 Finish Mill
S2.017	Conveyor 204 transfer to Bucket Elevator 205
S2.018	Bucket Elevator 205 transfer to Air Separator 206
S2.019	Air Separator 206 to Air Slide 207-11
S2.020	Air Slide 207-11 transfer to #1 Finish Mill 505
S2.021	#1 Raw Mill 208
S2.022	Heater 211 firing either 14 MMBtu/hr Natural Gas or 10.54 MMBtu/hr #2 fuel oil

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.017 - S2.022** each shall be ducted to a control system consisting of a **Baghouse (DC 210)** with 100% capture and a maximum volume flow rate of **43,000** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 69.9
      Stack Inside Diameter (feet): 2.99
      Stack Temperature (°F): 180
      Stack Exit Velocity (ft/sec): 102.07

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.017 - S2.022**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (DC 210)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **6.00** pounds per hour, nor more than **26.28** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **6.00** pounds per hour, nor more than **26.28** tons per 12-month rolling period.
      (iii) NAC 445B.305 *Part 70 Program* - The discharge of NOx (nitrogen oxides) to the atmosphere will not exceed **1.91** pounds per hour, nor more than **8.38** tons per 12-month rolling period.
      (iv) NAC 445B.305 *Part 70 Program* - The discharge of CO (carbon monoxide) to the atmosphere will not exceed **1.13** pound per hour, nor more than **3.82** tons per 12-month rolling period.
      (v) NAC 445B.305 *Part 70 Program* - The discharge of SO_2 (sulfur dioxide) to the atmosphere will not exceed **0.53** pound per hour, nor more than **0.83** ton per 12-month rolling period.
      (vi) NAC 445B.305 *Part 70 Program* - The discharge of Sulfur to the atmosphere will not exceed **0.27** pound per hour, nor more than **0.42** ton per 12-month rolling period.
      (vii) NAC 445B.305 *Part 70 Program* - The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **0.50** pound per hour, nor more than **2.19** tons per 12-month rolling period.
      (viii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **47.05** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **E-3.3.a.** of this section.
      (ix) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.55** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **E-3.3.b.** of this section.
      (x) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.59** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **E-3.3.c.** of this section.
      (xi) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **9.80** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **E-3.3.b.** of this section.
      (xii) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **7.38** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **E-3.3.c.** of this section.
      (xiii) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust stack of **Baghouse (DC 210)**, will not equal or exceed 20% in accordance with NAC 445B.22017.

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Section VI. Specific Operating Conditions (continued)

E-3. Emission Unit #(s): S2.017 - S2.022 (continued)

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Operating Parameters
   a. The maximum allowable throughput rate of raw materials (limestone, clay, iron ore & slag, pozzolan, clinker, gypsum) for the system consisting of **S2.017 - S2.021** will not exceed **33.0** tons per any one-hour period.
   b. The maximum allowable heat input rate of natural gas for **S2.022** will not exceed **14.0 MMBtu** per any one-hour period, combusting a maximum of **13,462.0** cubic feet per hour of natural gas.
   c. The maximum allowable fuel consumption rate of #2 fuel oil for **S2.022** will not exceed **75.29** gallons per any one-hour period.
   d. **S2.022** will combust pipeline quality natural gas as the primary fuel only.
   e. **S2.022** will combust #2 fuel oil as the secondary fuel in the event of natural gas curtailment, or for economic reasons.
   f. Hours
      (i) **S2.017 - S2.021** each, may operate **8,760** hours.
      (ii) **S2.022** may operate **8,760** hours, combusting pipeline quality natural gas.
      (iii) **S2.022** may operate **3,000** hours per 12-month rolling period, combusting #2 fuel oil.

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping, Reporting and Compliance
   When **System 06B** is in operation, the permittee shall:
      (i) Monitor and record the throughput rate for the system consisting of **S2.017 - S2.021** on a daily basis.
      (ii) Monitor and record the fuel consumption rate of natural gas for **S2.022** on a daily basis.
      (iii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.022** on a daily basis.
      (iv) Monitor and record the hours of operation for the system consisting of **S2.017 - S2.022** on a daily basis.
      (v) Monitor and record the throughput rate for the system consisting of **S2.017 - S2.021** on a cumulative monthly basis, for each 12-month rolling period.
      (vi) Monitor and record the fuel consumption rate of natural gas for **S2.022** on a cumulative monthly basis, for each 12-month rolling period.
      (vii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.022** on a cumulative monthly basis, for each 12-month rolling period.
      (viii) Conduct a weekly observation of the **Baghouse (DC 210)** and verify that the **Baghouse (DC 210)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 210)**. Record and verify that any maintenance work on the **Baghouse (DC 210)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
      (ix) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 210)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
      (x) The required monitoring established in **(i)** through **(ix)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
         (a) The calendar date of any required monitoring.
         (b) The total daily throughput rate for the system consisting of **S2.017 - S2.021** in tons, for the corresponding date.
         (c) The total daily fuel consumption rate of natural gas for **S2.022** in cubic feet, for the corresponding date.
         (d) The total daily fuel consumption rate of #2 fuel oil for **S2.022** in gallons, for the corresponding date.
         (e) The total daily hours of operation for the system consisting of **S2.017 - S2.022** for the corresponding date.
         (f) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(e)** above.
         (g) The corresponding average hourly fuel consumption rate of natural gas in cubic feet per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(c)** and **(e)** above.
         (h) The corresponding average hourly fuel consumption rate of #2 fuel oil in gallons per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(d)** and **(e)** above.
         (i) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
         (j) The cumulative monthly fuel consumption rate of natural gas in cubic feet, for each 12-month rolling period.
         (k) The cumulative monthly fuel consumption rate of #2 fuel oil in gallons for each 12-month rolling period.
         (l) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 210)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 210)** used for control of emissions.
         (m) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.

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Section VI. Specific Operating Conditions (continued)

E-3. Emission Unit #(s): S2.017 - S2.022 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 210)**:
   (i) Method 5 (that includes the back-half catch) in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) Methods 201A and 202 tests for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) Methods 201A and 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **E-3.2.a.(i)** of this section.
   (iv) A Method 7E compliance test for NOx, Method 10 compliance test for CO, Method 6C compliance test for SO_2, and Methods 25 or 25A compliance tests for VOC in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (v) A Method 29 compliance test for metallic hazardous air pollutants (HAPs) in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (vi) Methods 320 or 321 compliance test for hydrogen chloride (HCl) and Method 320 (or Method 18 of Appendix A to 40 CFR Part 60) compliance test for specific organic HAPs in accordance with 40 CFR Part 63, Appendix A.
   (vii) For the purposes of demonstrating compliance with the opacity standard established in **E-3.2.a.(xiii)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (viii) Performance/compliance tests required under **E-3.4.b.** of this section that are conducted below the maximum allowable throughput/fuel consumption rate, as established in **E-3.3.a., E-3.3.b. and E-3.3.c.** of this section, shall be subject to the director's review to determine if the throughputs/fuel consumption rates during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (ix) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

K. **Emission Unit #(s): S2.043 - S2.049**, location North 4,387.892 km, East 305.854 km, UTM (Zone 11)

K System 11 -	#1 Finish Mill Operations
S2.043	Conveyor 504 transfer to #1 Finish Mill 505 or Air Slide 207-11 transfer to #1 Finish Mill 505
S2.044	#1 Finish Mill 505
S2.045	Air Slide 506 transfer to Bucket Elevator 507
S2.046	Bucket Elevator 507 transfer to Air Separator 509
S2.047	Air Separator 509 transfer to Air Slide 519-1
S2.048	Air Slide 519-1 to Air Slide 519-2 and transfer to FK Pump 512
S2.049	Dust Collector 510 transfer to FK Pump 512

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.043 - S2.049** each shall be ducted to a control system consisting of a **Baghouse (DC 510)** with 100% capture and a maximum volume flow rate of **18,180** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 65
      Stack Inside Diameter (feet): 2
      Stack Temperature (°F): 160
      Stack Exit Velocity (ft/sec): 96.45

   b. Emissions from **516** (Feeder Section Dust Collector & Fan) are discharged back onto the feeder belt and 100% captured by the **Baghouse (DC 510)**.

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.043 - S2.049**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (DC 510)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **3.12** pounds per hour, nor more than **13.65** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **3.12** pounds per hour, nor more than **13.65** tons per 12-month rolling period.
      (iii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **40.80** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **K.3.a.** of this section.
      (iv) NAC 445B.22017 *(Federally Enforceable SIP Reuirement)* - The opacity from the exhaust stack of **Baghouse (DC 510)** will not equal or exceed 20% in accordance with NAC 445B.22017.

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput rate of finished product (portland cement and Class N Pozzolan) for the system consisting of **S2.043 - S2.049** will not exceed **33.0** tons per any one-hour period.
   b. Hours
      (i) **S2.043 - S2.049** each, may operate **8,760** hours.

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Section VI. Specific Operating Conditions (continued)

K. Emission Unit #(s): S2.043 - S2.049 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping and Compliance
   When **System 11** is in operation, the permittee shall:
   (i) Monitor and record the throughput rate for the system consisting of **S2.043 - S2.049** on a daily basis.
   (ii) Monitor and record the hours of operation for the system consisting of **S2.043 - S2.049** on a daily basis.
   (iii) Monitor and record the throughput rate for the system consisting of **S2.043 - S2.049** on a cumulative monthly basis, for each 12-month rolling period.
   (iv) Conduct a weekly observation of the **Baghouse (DC 510)** and verify that the **Baghouse (DC 510)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 510)**. Record and verify that any maintenance work on the **Baghouse (DC 510)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
   (v) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 510)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
   (vi) The required monitoring established in **(i)** through **(v)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
   (a) The calendar date of any required monitoring.
   (b) The total daily throughput rate for the system consisting of **S2.043 - S2.049** in tons, for the corresponding date.
   (c) The total daily hours of operation for the corresponding date.
   (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(c)** above.
   (e) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
   (f) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 510)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 510)** used for control of emissions.
   (g) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 510)**:
   (i) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) A Method 201A test for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) The Method 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **K.2.a.(i)** of this section.
   (iv) For the purposes of demonstrating compliance with the opacity standard established in **K.2.a.(iv)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (v) Performance/compliance tests required under **K.4.b.** of this section that are conducted below the maximum allowable throughput, as established in **K.3.a.** of this section, shall be subject to the director's review to determine if the throughputs during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (vi) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

L-1. Emission Unit #(s): S2.050 - S2.054, location North 4,387.882 km, East 305.8807 km, UTM (Zone 11)

L-1. System 12 -	#2 Raw Mill System
S2.050	Bucket Elevator 1908 transfer to Air Separator 1910
S2.051	Screw Conveyor 1916 transfer to Air Slide 1917
S2.052	Air Separator 1910 transfer to Air Slide 1917
S2.053	Air Slide 1917 transfer to Pump 213
S2.054	Heater 1909 firing either 14 MMBtu/hr Natural Gas or 9.06 MMBtu/hr #2 fuel oil

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.050 - S2.054** each shall be ducted to a control system consisting of a **Baghouse (DC 1914)** with 100% capture and a maximum volume flow rate of **36,331** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 44
      Stack Inside Diameter (feet): 2.3
      Stack Temperature (°F): 180
      Stack Exit Velocity (ft/sec): 145.74

   b. Emissions from **1914-1** (Dust Collector & Fan) are discharged into the bucket elevator 1908 and 100% captured by the **Baghouse (DC 1914)**.

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.050 - S2.054**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack **Baghouse (DC 1914)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **4.00** pounds per hour, nor more than **17.52** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **4.00** pounds per hour, nor more than **17.52** tons per 12-month rolling period.
      (iii) NAC 445B.305 *Part 70 Program* - The discharge of NOx (nitrogen oxides) to the atmosphere will not exceed **1.91** pounds per hour, nor more than **8.38** tons per 12-month rolling period.
      (iv) NAC 445B.305 *Part 70 Program* - The discharge of CO (carbon monoxide) to the atmosphere will not exceed **1.13** pound per hour, nor more than **3.74** tons per 12-month rolling period.
      (v) NAC 445B.305 *Part 70 Program* - The discharge of SO_2 (sulfur dioxide) to the atmosphere will not exceed **0.46** pound per hour, nor more than **0.72** ton per 12-month rolling period.
      (vi) NAC 445B.305 *Part 70 Program* - The discharge of Sulfur to the atmosphere will not exceed **0.23** pound per hour, nor more than **0.36** ton per 12-month rolling period.
      (vii) NAC 445B.305 *Part 70 Program* - The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **0.50** pound per hour, nor more than **2.19** tons per 12-month rolling period.
      (viii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **42.53** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **L-1.3.a.** of this section.
      (ix) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.55** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **L-1.3.b.** of this section.
      (vii) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.61** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **L-1.3.c.** of this section.
      (viii) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **9.80** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **L-1.3.b.** of this section.
      (ix) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **6.34** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **L-1.3.c.** of this section.
      (x) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust stack of **Baghouse (DC 1914)**, will not equal or exceed 20% in accordance with NAC 445B.22017.

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Section VI. Specific Operating Conditions (continued)

L-1. Emission Unit #(s): S2.050 - S2.054 (continued)

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Operating Parameters
   a. The maximum allowable throughput rate of raw materials (limestone, clay, iron ore & slag) for the system consisting of **S2.050 - S2.053** will not exceed **40.0** tons per any one-hour period.
   b. The maximum allowable heat input rate of natural gas for **S2.054** will not exceed **14.0 MMBtu** per any one-hour period, combusting a maximum of **13,462.0** cubic feet per hour of natural gas.
   c. The maximum allowable fuel consumption rate of #2 fuel oil for **S2.054** will not exceed **64.71** gallons per any one-hour period.
   d. **S2.054** will combust pipeline quality natural gas as the primary fuel only.
   e. **S2.054** will combust #2 fuel oil as the secondary fuel in the event of natural gas curtailment, or for economic reasons.
   f. Hours
      (i) **S2.050 - S2.053** each, may operate **8,760** hours.
      (ii) **S2.054** may operate **8,760** hours, combusting pipeline quality natural gas.
      (iii) **S2.054** may operate **3,000** hours per 12-month rolling period, combusting #2 fuel oil.

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping and Compliance
   When **System 12** is in operation, the permittee shall:
      (i) Monitor and record the throughput rate for the system consisting of **S2.050 – S2.053** on a daily basis.
      (ii) Monitor and record the fuel consumption rate of natural gas for **S2.054** on a daily basis.
      (iii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.054** on a daily basis.
      (iv) Monitor and record the hours of operation for the system consisting of **S2.050 - S2.054** each, on a daily basis.
      (v) Monitor and record the throughput rate for the system consisting of **S2.050 – S2.053** on a cumulative monthly basis, for each 12-month rolling period.
      (vi) Monitor and record the fuel consumption rate for **S2.054** on a cumulative monthly basis, for each 12-month rolling period.
      (vii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.054** on a cumulative monthly basis, for each 12-month rolling period.
      (viii) Conduct a weekly observation of the **Baghouse (DC 1914)** and verify that the **Baghouse (DC 1914)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 1914)**. Record and verify that any maintenance work on the **Baghouse (DC 1914)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
      (ix) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 1914)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
      (x) The required monitoring established in **(i)** through **(ix)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
         (a) The calendar date of any required monitoring.
         (b) The total daily throughput rate for the system consisting of **S2.050 – S2.053** in tons, for the corresponding date.
         (c) The total daily fuel consumption rate for **S2.054** in cubic feet, for the corresponding date.
         (d) The total daily fuel consumption rate of #2 fuel oil for **S2.054** in gallons for the corresponding date.
         (e) The total daily hours of operation for the system consisting of **S2.050 – S2.054** each, for the corresponding date.
         (f) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(e)** above.
         (g) The corresponding average hourly fuel consumption rate of natural gas in cubic feet per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(c)** and **(e)** above.
         (h) The corresponding average hourly fuel consumption rate of #2 fuel oil in gallons per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(d)** and **(e)** above.
         (i) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
         (j) The cumulative monthly fuel consumption rate of natural gas in cubic feet, for each 12-month rolling period.
         (k) The cumulative monthly fuel consumption rate of #2 fuel oil in gallons for each 12-month rolling period.
         (l) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 1914)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 1914)** used for control of emissions.
         (m) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.

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Section VI. Specific Operating Conditions (continued)

L-1. Emission Unit #(s): S2.050 - S2.054 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program* **(continued)**
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 1914)**:
   (i) Method 5 (that includes the back-half catch) in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) Methods 201A and 202 tests for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) Methods 201A and 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **L-1.2.a.(i)** of this section.
   (iv) A Method 7E compliance test for NOx, Method 10 compliance test for CO, Method 6C compliance test for SO_2, and Methods 25 or 25A compliance tests for VOC in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (v) A Method 29 compliance test for metallic hazardous air pollutants (HAPs) in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (vi) Methods 320 or 321 compliance test for hydrogen chloride (HCl) and Method 320 (or Method 18 of Appendix A to 40 CFR Part 60) compliance test for specific organic HAPs in accordance with 40 CFR Part 63, Appendix A.
   (vii) For the purposes of demonstrating compliance with the opacity standard established in **L-1.2.a.(xiii)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (viii) Performance/compliance tests required under **L-1.4.b.** of this section that are conducted below the maximum allowable throughput/fuel consumption rate, as established in **L-1.3.a., L-1.3.b.** and **L-1.3.c.** of this section, shall be subject to the director's review to determine if the throughputs/fuel consumption rates during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (ix) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

L-2. Emission Unit #(s): S2.050 - S2.054, location North 4,387.882 km, East 305.8807 km, UTM (Zone 11)

L-2. System 12A -	#2 Raw Mill System - Used as Finish Mill
S2.050	Bucket Elevator 1908 transfer to Air Separator 1910
S2.051	Screw Conveyor 1916 transfer to Air Slide 1917-10
S2.052	Air Separator 1910 transfer to Air Slide 1917-10
S2.053	Air Slide 1917-10 transfer to Pump 213-10
S2.054	Heater 1909 firing either 14 MMBtu/hr Natural Gas or 9.06 MMBtu/hr #2 fuel oil

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.050 - S2.054** each shall be ducted to a control system consisting of a **Baghouse (DC 1914)** with 100% capture and a maximum volume flow rate of **36,331** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 44
      Stack Inside Diameter (feet): 2.3
      Stack Temperature (°F): 180
      Stack Exit Velocity (ft/sec): 145.74

   b. Emissions from **1914-1** (Dust Collector & Fan) are discharged into the bucket elevator 1908 and 100% captured by the **Baghouse (DC 1914)**.

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.050 - S2.054**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack **Baghouse (DC 1914)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **4.00** pounds per hour, nor more than **17.52** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **4.00** pounds per hour, nor more than **17.52** tons per 12-month rolling period.
      (iii) NAC 445B.305 *Part 70 Program* - The discharge of NOx (nitrogen oxides) to the atmosphere will not exceed **1.91** pounds per hour, nor more than **8.38** tons per 12-month rolling period.
      (iv) NAC 445B.305 *Part 70 Program* - The discharge of CO (carbon monoxide) to the atmosphere will not exceed **1.13** pound per hour, nor more than **3.74** tons per 12-month rolling period.
      (v) NAC 445B.305 *Part 70 Program* - The discharge of SO_2 (sulfur dioxide) to the atmosphere will not exceed **0.46** pound per hour, nor more than **0.72** ton per 12-month rolling period.
      (vi) NAC 445B.305 *Part 70 Program* - The discharge of Sulfur to the atmosphere will not exceed **0.23** pound per hour, nor more than **0.36** ton per 12-month rolling period.
      (vii) NAC 445B.305 *Part 70 Program* - The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **0.50** pound per hour, nor more than **2.19** tons per 12-month rolling period.
      (viii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **42.53** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **L-2.3.a.** of this section.
      (ix) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.55** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **L-2.3.b.** of this section.
      (x) NAC 445B.2203 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.61** pounds per MMBtu maximum allowable emission limit as determined from NAC 445B.2203 and the maximum allowable throughput as limited by **L-2.3.c.** of this section.
      (xi) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **9.80** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **L-2.3.b.** of this section.
      (xii) NAC 445B.22047 *(Federally Enforceable SIP Requirement)* - The discharge of Sulfur to the atmosphere will not exceed **6.34** pounds per hour maximum allowable emission limit as determined from NAC 445B.22047 and the maximum allowable throughput as limited by **L-2.3.c.** of this section.
      (xii) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust stack of **Baghouse (DC 1914)**, will not equal or exceed 20% in accordance with NAC 445B.22017.

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Section VI. Specific Operating Conditions (continued)

L-2. Emission Unit #(s): S2.050 - S2.054 (continued)

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Operating Parameters
   a. The maximum allowable throughput rate of raw materials (limestone, clay, iron ore & slag, clinker, gypsum, pozzolan) for the system consisting of **S2.050 - S2.053** will not exceed **40.0** tons per any one-hour period.
   b. The maximum allowable heat input rate of natural gas for **S2.054** will not exceed **14.0 MMBtu** per any one-hour period, combusting a maximum of **13,462.0** cubic feet per hour of natural gas.
   c. The maximum allowable fuel consumption rate of #2 fuel oil for **S2.054** will not exceed **64.71** gallons per any one-hour period.
   d. **S2.054** will combust pipeline quality natural gas as the primary fuel only.
   e. **S2.054** will combust #2 fuel oil as the secondary fuel in the event of natural gas curtailment, or for economic reasons.
   f. Hours
      (i) **S2.050 - S2.053** each, may operate **8,760** hours.
      (ii) **S2.054** may operate **8,760** hours, combusting pipeline quality natural gas.
      (iii) **S2.054** may operate **3,000** hours per 12-month rolling period, combusting #2 fuel oil.

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping and Compliance
   When **System 12A** is in operation, the permittee shall:
      (i) Monitor and record the throughput rate for the system consisting of **S2.050 – S2.053** on a daily basis.
      (ii) Monitor and record the fuel consumption rate of natural gas for **S2.054** on a daily basis.
      (iii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.054** on a daily basis.
      (iv) Monitor and record the hours of operation for the system consisting of **S2.050 - S2.054** each, on a daily basis.
      (v) Monitor and record the throughput rate for the system consisting of **S2.050 – S2.053** on a cumulative monthly basis, for each 12-month rolling period.
      (vi) Monitor and record the fuel consumption rate for **S2.054** on a cumulative monthly basis, for each 12-month rolling period.
      (vii) Monitor and record the fuel consumption rate of #2 fuel oil for **S2.054** on a cumulative monthly basis, for each 12-month rolling period.
      (viii) Conduct a weekly observation of the **Baghouse (DC 1914)** and verify that the **Baghouse (DC 1914)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 1914)**. Record and verify that any maintenance work on the **Baghouse (DC 1914)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
      (ix) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 1914)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
      (x) The required monitoring established in **(i)** through **(ix)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
         (a) The calendar date of any required monitoring.
         (b) The total daily throughput rate for the system consisting of **S2.050 – S2.053** in tons, for the corresponding date.
         (c) The total daily fuel consumption rate for **S2.054** in cubic feet, for the corresponding date.
         (d) The total daily fuel consumption rate of #2 fuel oil for **S2.054** in gallons for the corresponding date.
         (e) The total daily hours of operation for the system consisting of **S2.050 – S2.054** each, for the corresponding date.
         (f) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(e)** above.
         (g) The corresponding average hourly fuel consumption rate of natural gas in cubic feet per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(c)** and **(e)** above.
         (h) The corresponding average hourly fuel consumption rate of #2 fuel oil in gallons per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in **(d)** and **(e)** above.
         (i) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
         (j) The cumulative monthly fuel consumption rate of natural gas in cubic feet, for each 12-month rolling period.
         (k) The cumulative monthly fuel consumption rate of #2 fuel oil in gallons for each 12-month rolling period.
         (l) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 1914)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 1914)** used for control of emissions.
         (m) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.

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Section VI. Specific Operating Conditions (continued)

L-2. Emission Unit #(s): S2.050 - S2.054 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program* **(continued)**
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 1914)**:
   (i) Method 5 (that includes the back-half catch) in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) Methods 201A and 202 tests for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) Methods 201A and 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **L-2.2.a.(i)** of this section.
   (iv) A Method 7E compliance test for NOx, Method 10 compliance test for CO, Method 6C compliance test for SO_2, and Methods 25 or 25A compliance tests for VOC in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (v) A Method 29 compliance test for metallic hazardous air pollutants (HAPs) in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director).
   (vi) Methods 320 or 321 compliance test for hydrogen chloride (HCl) and Method 320 (or Method 18 of Appendix A to 40 CFR Part 60) compliance test for specific organic HAPs in accordance with 40 CFR Part 63, Appendix A.
   (vii) For the purposes of demonstrating compliance with the opacity standard established in **L-2.2.a.(xiii)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (viii) Performance/compliance tests required under **L-2.4.b.** of this section that are conducted below the maximum allowable throughput/fuel consumption rate, as established in **L-2.3.a., L-2.3.b.** and **L-2.3.c.** of this section, shall be subject to the director's review to determine if the throughputs/fuel consumption rates during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (ix) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

M. Emission Unit #(s): S2.055, location North 4,387.882 km, East 305.8807 km, UTM (Zone 11)

M. System 13 -	#2 Raw Mill
S2.055	#2 Raw Mill 1911

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.055** shall be ducted to a control system consisting of a **Baghouse (DC 1914-2)** with 100% capture and a maximum volume flow rate of **16,956** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 29.9
      Stack Inside Diameter (feet): 2.3
      Stack Temperature (°F): 180
      Stack Exit Velocity (ft/sec): 68

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.055**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (DC 1914-2)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **3.00** pounds per hour, nor more than **13.14** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **3.00** pounds per hour, nor more than **13.14** tons per 12-month rolling period.
      (iii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **42.53** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **M.3.a.** of this section.
      (iv) NAC 445B.22017 *(Federally Enforceable SIP Reuirement)* - The opacity from the exhaust stack of **Baghouse (DC 1914-2)** will not equal or exceed 20% in accordance with NAC 445B.22017.

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput rate of raw materials (limestone, clay, iron ore & slag, clinker, gypsum, pozzolan) for **S2.055** will not exceed **40.0** tons per any one-hour period.
   b. Hours
      (i) **S2.055** may operate **8,760** hours.

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Section VI. Specific Operating Conditions (continued)

M. Emission Unit #(s): S2.055 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping and Compliance
   When **System 13** is in operation, the permittee shall:
   (i) Monitor and record the throughput rate for **S2.055** on a daily basis.
   (ii) Monitor and record the hours of operation for **S2.055** on a daily basis.
   (iii) Monitor and record the throughput rate for **S2.055** on a cumulative monthly basis, for each 12-month rolling period.
   (iv) Conduct a weekly observation of the **Baghouse (DC 1914-2)** and verify that the **Baghouse (DC 1914-2)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 1914-2)**. Record and verify that any maintenance work on the **Baghouse (DC 1914-2)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
   (v) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 1914-2)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
   (vi) The required monitoring established in **(i)** through **(v)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
   (a) The calendar date of any required monitoring.
   (b) The total daily throughput rate for **S2.055** in tons, for the corresponding date.
   (c) The total daily hours of operation for the corresponding date.
   (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(c)** above.
   (e) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
   (f) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 1914-2)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 1914-2)** used for control of emissions.
   (g) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 1914-2)**:
   (i) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) A Method 201A test for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) The Method 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **M.2.a.(i)** of this section.
   (iv) For the purposes of demonstrating compliance with the opacity standard established in **M.2.a.(iv)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (v) Performance/compliance tests required under **M.4.b.** of this section that are conducted below the maximum allowable throughput, as established in **M.3.a.** of this section, shall be subject to the director's review to determine if the throughputs/fuel consumption rates during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (vi) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

V. **Emission Unit #(s): S2.086 - S2.093**, location North 4,387.820 km, East 305.767 km, UTM (Zone 11)

V. System 21 -	Cement Bulk Loading
S2.086	Silo transfers to Air Slides
S2.087	Air slides transfer to Bucket Elevator 613
S2.088	Bucket Elevator 613 to Air Slides 609-4 & 701-1
S2.089	Air Slides transfer to Loading Spout 627
S2.090	Silo transfers to North Rail Storage Bin 624
S2.091	North Rail Bin transfers to Spout 627
S2.092	#1 Finish Mill Pump 512 transfer into Silos
S2.093	#2 & 3 Finish Mill Pump 2212 and #1 & #2 Raw Mill Pump 213-10 transfer into Silos

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.086 - S2.093** each shall be ducted to a control system consisting of a **Baghouse (DC 618)** with 100% capture and a maximum volume flow rate of **12,360** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 111.9
      Stack Inside Diameter (feet): 1.78
      Stack Temperature (°F): 125
      Stack Exit Velocity (ft/sec): 82.78

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.086 - S2.093**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (DC 618)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **2.12** pounds per hour, nor more than **9.28** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **2.12** pounds per hour, nor more than **9.28** tons per 12-month rolling period.
      (iii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **57.84** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **V.3.a.** of this section.
      (iv) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust stack of **Baghouse (DC 618)** will not equal or exceed 20% in accordance with NAC 445B.22017.

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput rate of portland cement and pozzolan for the system consisting of **S2.086 - S2.093** will not exceed **187.9** tons per any one-hour period.
   b. Hours
      (i) **S2.086 - S2.093** each, may operate **8,760** hours.

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Section VI. Specific Operating Conditions (continued)

V. Emission Unit #(s): S2.086 - S2.093 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping and Compliance
   When **System 21** is in operation, the permittee shall:
   (i) Monitor and record the throughput rate for the system consisting of **S2.086 - S2.093** on a daily basis.
   (ii) Monitor and record the hours of operation for the system consisting of **S2.086 - S2.093** on a daily basis.
   (iii) Monitor and record the throughput rate for the system consisting of **S2.086 - S2.093** on a cumulative monthly basis, for each 12-month rolling period.
   (iv) Conduct a weekly observation of the **Baghouse (DC 618)** and verify that the **Baghouse (DC 618)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 618)**. Record and verify that any maintenance work on the **Baghouse (DC 618)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
   (v) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 618)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
   (vi) The required monitoring established in **(i)** through **(v)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
      (a) The calendar date of any required monitoring.
      (b) The total daily throughput rate for the system consisting of **S2.086 - S2.093** in tons, for the corresponding date.
      (c) The total daily hours of operation for the corresponding date.
      (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(c)** above.
      (e) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
      (f) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 618)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 618)** used for control of emissions.
      (g) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 618)**:
   (i) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) A Method 201A test for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) The Method 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **V.2.a.(i)** of this section.
   (iv) For the purposes of demonstrating compliance with the opacity standard established in **V.2.a.(iv)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (v) Performance/compliance tests required under **V.4.b.** of this section that are conducted below the maximum allowable throughput, as established in **V.3.a.** of this section, shall be subject to the director's review to determine if the throughputs during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (vi) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Unit #(s): S2.104 - S2.105, location North 4,387.802 km, East 305.756 km, UTM (Zone 11)

AD. System 25(b) -	Rail Unloading/Transfer
S2.104	Rail Transfer 634-8 to South Storage Bin 625
S2.105	Silo #8 Transfer to South Storage Bin 625

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.104 - S2.105** each shall be ducted to a control system consisting of a **Baghouse (DC 611)** with 100% capture and a maximum volume flow rate of **2,000** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

      Stack Height (feet from ground level): 60
      Stack Inside Diameter (feet): 0.94
      Stack Temperature (°F): Ambient
      Stack Exit Velocity (ft/sec): 48.03

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.104 - S2.105**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (DC 611)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.41** pounds per hour, nor more than **1.80** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.41** pounds per hour, nor more than **1.80** tons per 12-month rolling period.
      (iii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **51.28** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **AD.3.a.** of this section.
      (iv) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust stack of **Baghouse (DC 611)** will not equal or exceed 20% in accordance with NAC 445B.22017.

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput rate of materials (portland cement, fly ash, pozzolan) for the system consisting of **S2.104 - S2.105** will not exceed **100.0** tons per any one-hour period.
   b. Hours
      (i) **S2.104 - S2.105** each, may operate **8,760** hours.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Unit #(s): S2.104 - S2.105 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping and Compliance
   When **System 25(b)** is in operation, the permittee shall:
   (i) Monitor and record the throughput rate for the system consisting of **S2.104 - S2.105** on a daily basis.
   (ii) Monitor and record the hours of operation for the system consisting of **S2.104 - S2.105** on a daily basis.
   (iii) Monitor and record the throughput rate for the system consisting of **S2.104 - S2.105** on a cumulative monthly basis, for each 12-month rolling period.
   (iv) Conduct a weekly observation of the **Baghouse (DC 611)** and verify that the **Baghouse (DC 611)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 611)**. Record and verify that any maintenance work on the **Baghouse (DC 611)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
   (v) Conduct and record a weekly visible emission inspection of the **Baghouse (DC 611)**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
   (vi) The required monitoring established in **(i)** through **(v)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
      (a) The calendar date of any required monitoring.
      (b) The total daily throughput rate for the system consisting of **S2.104 - S2.105** in tons, for the corresponding date.
      (c) The total daily hours of operation for the corresponding date.
      (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(c)** above.
      (e) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
      (f) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 611)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 611)** used for control of emissions.
      (g) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 611)**:
   (i) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) A Method 201A test for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) The Method 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **AD.2.a.(i)** of this section.
   (iv) For the purposes of demonstrating compliance with the opacity standard established in **AD.2.a.(iv)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (v) Performance/compliance tests required under **AD.4.b.** of this section that are conducted below the maximum allowable throughput, as established in **AD.3.a.** of this section, shall be subject to the director's review to determine if the throughputs during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (vi) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section VI. Specific Operating Conditions (continued)

AE. Emission Unit #(s): S2.106, location North 4,387.8067 km, East 305.7474 km, UTM (Zone 11)

AE System 26 -	Fly Ash Bulk Loading
S2.106	South Storage Bin 625 transfer to Air Slide 609-4 and Loading Spout 610

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipments
   a. Emissions from **S2.106** shall be ducted to a control system consisting of a **Baghouse (DC 612)** with 100% capture and a maximum volume flow rate of **3,000** actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A. The **Baghouse (DC 612)** is located inside the load-out building.

      Stack Height (feet from ground level): 50
      Stack Inside Diameter (feet): 0.94
      Stack Temperature (°F): Ambient
      Stack Exit Velocity (ft/sec): 72.05

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **S2.106**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (DC 612)**, the following pollutants in excess of the following specified limits:
      (i) NAC 445B.305 *Part 70 Program* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.308** pounds per hour, nor more than **1.35** tons per 12-month rolling period.
      (ii) NAC 445B.305 *Part 70 Program* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.308** pounds per hour, nor more than **1.35** tons per 12-month rolling period.
      (iii) NAC 445B.22033 *(Federally Enforceable SIP Requirement)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **51.28** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by **AE.3.a.** of this section.
      (iv) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust stack of **Baghouse (DC 612)** will not equal or exceed 20% in accordance with NAC 445B.22017.

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput rate of materials (portland cement, fly ash, pozzolan) for **S2.106** will not exceed **100.0** tons per any one-hour period.
   b. Hours
      (i) **S2.106** may operate **8,760** hours.

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Section VI. Specific Operating Conditions (continued)

AE. Emission Unit #(s): S2.106 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Monitoring, Recordkeeping and Compliance
   When **System 26** is in operation, the permittee shall:
   (i) Monitor and record the throughput rate for **S2.106** on a daily basis.
   (ii) Monitor and record the hours of operation for **S2.106** on a daily basis.
   (iii) Monitor and record the throughput rate for **S2.106** on a cumulative monthly basis, for each 12-month rolling period.
   (iv) Conduct a weekly observation of the **Baghouse (DC 612)** and verify that the **Baghouse (DC 612)** is operating normally; record the time of observation and indicate the status of the **Baghouse (DC 612)**. Record and verify that any maintenance work on the **Baghouse (DC 612)** is done in accordance with the O&M (Operation & Procedural Maintenance) Plan as submitted on February 19, 2009. The O&M Plan needs to be updated every five (5) years to incorporate any physical changes, etc.
   (v) Conduct and record a visible emissions reading on each exit of the load-out building (including but not limited to doors, windows, vents, chimney's, etc.) on a weekly basis. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions. The Method 9 visible emissions reading requirement can be waived for each exit of the building enclosure (including but not limited to doors, windows, vents, chimney's, etc.) providing the following conditions are met.
      (a) A survey of each exit of the building enclosure (including but not limited to doors, windows, vents, chimney's, etc.) must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 6 minutes.
      (b) If the survey detects visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time, a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
      (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.
   (vi) The required monitoring established in **(i)** through **(v)** above, will be maintained in a contemporaneous log containing at a minimum, the following recordkeeping:
      (a) The calendar date of any required monitoring.
      (b) The total daily throughput rate for **S2.106** in tons, for the corresponding date.
      (c) The total daily hours of operation for the corresponding date.
      (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in **(b)** and **(c)** above.
      (e) The cumulative monthly throughput rate in tons, for each 12-month rolling period.
      (f) The results and verification of the weekly observations and the implementation and proper use of the **Baghouse (DC 612)**, and any corrective actions taken to maintain implementation and proper use of the **Baghouse (DC 612)** used for control of emissions.
      (g) The results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents require under 40 CFR Part 60, Appendix A.

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Section VI. Specific Operating Conditions (continued)

AE. Emission Unit #(s): S2.106 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. Performance/Compliance Testing (NAC 445B.252.1)
   At least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the **Baghouse (DC 612)**:
   (i) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
   (ii) A Method 201A test for PM_{10} in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director).
   (iii) The Method 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in **AE.2.a.(i)** of this section.
   (iv) For the purposes of demonstrating compliance with the opacity standard established in **AE.2.a.(iv)** of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
   (v) Performance/compliance tests required under **AE.4.b.** of this section that are conducted below the maximum allowable throughput, as established in **AE.3.a.** of this section, shall be subject to the director's review to determine if the throughputs during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
   (vi) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Shielded Requirements
   a. No shielded requirements are specified.

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Section X. Amendments

A. Permittee's Significant Revision Application requesting one combined operating scenario for #1 Raw Mill System (System 06) in lieu of existing two operating scenarios (Systems 06 and 06A) and one combined operating scenario for #2 Raw Mill System (System 12) in lieu of existing two operating scenarios (Systems 12 and 12A) to combust natural gas as well as fuel oil; and deletion of existing alternative operating scenarios (Systems 06A and 12A) [refer to Significant Revision Application received on September 29, 2006 and additional Submittals].

B. Permit Renewal [refer to Renewal Application received on June 02, 2008 and additional Submittals].

C. Minor Modification to permit July 24, 2012 – added alternative modes of operation to Systems 06 (06A – allows System 06 to operate as a finish mill, adding the use of clinker, gypsum and pozzolan; and 06B – (reduces the throughput from 65 tons/hour to 33 tons/hr) allows 06 to operate as a finish mill, but also as a pre-grind mill in series with the #1 Finish mill, also allowing the use of clinker, gypsum and pozzolan) and 12 (12A – allowing System 12 to operate either part-time or full-time as a finish mill and allow the use of clinker, gypsum and pozzolan). Systems 11, 21, 25(b) and 26, allows the additional use of pozzolan. System 13 – allows the use of clinker, gypsum and pozzolan.

This permit:

1. **Is non-transferable. (NAC 445B.287.4) *Part 70 Program***
2. **Will be posted conspicuously at or near the stationary source. (NAC 445B.318) *State Only Requirement***
3. **Will expire and be subject to renewal five (5) years from January 27, 2009. (NAC 445B.315 and 3443.1) *Part 70 Program***
4. **A complete application for renewal of an operating permit must be submitted to the director on the form provided by him with the appropriate fee at least 240 calendar days before the expiration date of this operating permit. (NAC 445B.3443.2) *Part 70 Program***
5. **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) *State Only Requirement)***

THIS PERMIT EXPIRES ON: **January 27, 2014**

Signature _____

Issued by: Jeffrey Kinder, P.E.
Supervisor, Class I Permitting Branch
Bureau of Air Pollution Control

Phone: (775) 687-9475 Date: **July 24, 2012**

sas
07/12