DES
DEPARTMENT OF ENVIRONMENT AND SUSTAINABILITY
air quality desert conservation PROGRAM sustainability

4701 W. Russell Rd Suite 200
Las Vegas, NV 89118-2231
Phone (702) 455-5942
Fax (702) 383-9994

PART 70 OPERATING PERMIT

SOURCE ID: 00003

Lhoist North America of Arizona Apex Plant
12101 North Las Vegas Boulevard
Las Vegas, Nevada 89165

ISSUED ON: November 16, 2023 **EXPIRES ON: November 15, 2028**

Current action: Renewal

Issued to:

Lhoist North America of Arizona, Inc.

2215B Renaissance Drive

Las Vegas, Nevada 89119

Responsible Official:

Casey Piland

Plant Manager

PHONE: (205) 500-9702

EMAIL: casey.piland@lhoist.com

NATURE OF BUSINESS:
SIC code 3274, "Lime Manufacturing"
NAICS code 327410, "Lime Manufacturing"

Issued by the Clark County Department of Environment and Sustainability/Division of Air Quality in accordance with Section 12.5 of the Clark County Air Quality Regulations.

Santosh Mathew, Permitting Manager

EXECUTIVE SUMMARY

Lhoist North America of Arizona Apex Plant is a lime manufacturing operation located in Hydrographic Area 216 (Garnet Valley) which is designated as an attainment area for 8-hour ozone (regulated through NO_x and VOC), PM_{10}, CO, and SO_2. The source is a categorical source, as defined by AQR 12.2.2(j)(12)- Lime Plants.

The Apex plant is a major stationary source of PM_{10}, $PM_{2.5}$, NO_x, CO, SO_2, and HAP, and a minor source of VOC. The source is also a major source of greenhouse gases. The source consists of mining, excavating, drilling, blasting, solid fuel handling, lime kilns, crushers, screens, conveyors, silos, fuel storage tanks, haul roads, storage piles, and truck and railcar loading. Each kiln can be fired by coal, coke, or natural gas.

The following table summarizes the source's potential to emit (PTE) of each regulated air pollutant from all emission units addressed by this Part 70 Operating Permit.

Table 1: Source-wide Potential to Emit

Pollutant	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP[1] (HCl)	HAP[2] (total)	Pb	H_2S	GHG[3]
Tons/year	339.34	203.17	1,901.34	968.90	1,646.76	8.46	21.12	22.96	ND[4]	0	697,494.80

[1]A major source is defined as 10 tons for any individual HAP or 25 tons for combination of all HAPs.
[2]Included HCl HAP
[3]Metric tons (in units of CO_2e).
[4]Not determined

DAQ received the Title V renewal application on April 11, 2022. The source submitted applications for a significant revision to the OP and a new authority to construct (ATC) on May 23, 2022. An ATC for the new application was issued August 3, 2022. Based on information submitted by the applicant and a technical review performed by DAQ staff, DAQ proposes the issuance of a renewed Part 70 Operating Permit to Lhoist North America of Arizona Inc.

DAQ will continue to require the permittees to estimate their GHG PTE in terms of each individual pollutant (CO_2, CH_4, N_2O, SF_6 etc.) during subsequent permitting actions, and the corresponding TSDs will includes these PTEs for informational purposes.

This source is subject to 40 CFR Part 60, Subpart Y; 40 CFR Part 60, Subpart OOO; 40 CFR Part 60, Subpart IIII; 40 CFR Part 60, Subpart HH; 40 CFR Part 63, Subpart ZZZZ; and 40 CFR Part 63, Subpart AAAAA. By meeting the requirements of 40 CFR Part 60, Subpart IIII, the source meets the requirements of 40 CFR Part 63, Subpart ZZZZ.

Pursuant to AQR 12.5.2, all terms and conditions in Sections 1 through 8 and the appendix of this permit are federally enforceable unless explicitly denoted otherwise.

TABLE OF CONTENTS

LIST OF TABLES

Common Acronyms and Abbreviations

(These terms may be seen in the permit)

ANFO	ammonium nitrate-fuel oil
APCHB	Air Pollution Control Hearing Board
AQR	Clark County Air Quality Regulation
ATC	authority to construct
BLM	Bureau of Land Management
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
CI	compression ignition
CO	carbon monoxide
COMS	continuous opacity monitoring system
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
DAQ	Division of Air Quality
DES	Clark County Department of Environment and Sustainability
DOM	date of manufacture
dscf	dry standard cubic feet
dscm	dry standard cubic meter
EPA	U.S. Environmental Protection Agency
EU	emission unit
GHG	greenhouse gas
H_2S	hydrogen sulfide
HAP	hazardous air pollutant
HOO	hearing officer order
hp	horsepower
kW	kilowatt
MMBtu	British thermal units (in millions)
NAICS	North American Industry Classification System
NEI	net emissions increase
NO_x	nitrogen oxide(s)
NRS	Nevada Revised Statutes
NSPS	New Source Performance Standards
NSR	New Source Review
O&M	operations and maintenance manual
OM&M	operation maintenance and monitoring
OP	operating permit
Pb	lead
$PM_{2.5}$	particulate matter less than 2.5 microns in aerodynamic diameter
PM_{10}	particulate matter less than 10 microns in aerodynamic diameter
ppm	parts per million
PNF	prior notification form
PSD	prevention of significant deterioration
PTE	potential to emit
RT	round trip
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	sulfur dioxide
VE	visible emissions
VMT	vehicle miles traveled
VOC	volatile organic compound

1.0 EQUIPMENT

1.1 EMISSION UNITS

1. The stationary source covered by this Part 70 Operating Permit (Part 70 OP) consists of the emission units and associated appurtenances summarized in Table 1-1. *[AQR 12.5.2.6]*

Table 1-1: List of Emission Units

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
Mining Operations						
Q101			Mining Ore and Removing Overburden			
Q103		65,000 ft^2/blast, 5,200,000 ft^2/yr ANFO: 2,100 tons/yr	Blasting			
		24,552 holes/yr	Drilling			
QS101	Diesel Engine; DOM: 2001	80 hp	Sprinkler Pump	John Deere	4045DF150B	1JDXL06.8016
	Water Pump			Godwin	CD150M	0022946/5
Limestone Processing						
P103	HO-101/PF-101		Open Stone Transfer Point			
	GR-101	860 tph	Open Stone Transfer Point			
	BC-103		Closed Stone Transfer Point			
P103a	JC-102	720 tph	Stone Crushing	Pioneer	42” x 48”	
P106	BC-104		Closed Stone Transfer Point			
	VS-202	1,170 tph	Stone Screening	Telsmith	Vibro-King	
P107	VS-203	1,170 tph	Stone Screening	Telsmith	Vibro-King	
P109	BC-204		Closed Stone Transfer Point			
	BC-225		Closed Stone Transfer Point			
P109a	CC-201	800 tph	Secondary Crushing	Telsmith	68S Gyrasphere	
P112	BN-226		Closed Stone Transfer Point			
	BN-226 Loadout		Open Stone Transfer Point			
P114	BC-205		Closed Stone Transfer Point			
	BC-206		Closed Stone Transfer Point			
	BC-207		Open Stone Transfer Point			
	BC-209		Closed Stone Transfer Point			
	BC-210		Open Stone Transfer Point			

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
P115	BC-236		Closed Stone Transfer Point			
	BC-237		Open Stone Transfer Point			
	BC-208		Closed Stone Transfer Point			
	BC-235		Open Stone Transfer Point			
	BC-Coarse 2		Open Stone Transfer Point			
P129	Loader Loading (dolomite)		Open Stone Transfer Point			
	Loader Unloading (dolomite)		Open Stone Transfer Point			
Kiln Run Screening						
R101	BC-11		Closed Stone Transfer Point (underground)			
	BC-12		Closed Stone Transfer Point			
	BC-13		Closed Stone Transfer Point			
	VS-04	200 tph	Stone Screening	Hewitt Robins		
R106	BC-14		Closed Stone Transfer Point			
	BN-05		Closed Stone Transfer Point			
	BN-05 Loadout		Open Stone Transfer Point			
R108	BC-15, 16		Closed Stone Transfer Point			
	BE-01, 02		Closed Stone Transfer Point			
	BC-17		Closed Stone Transfer Point			
	BC-18		Closed Stone Transfer Point			
	SB-01		Closed Stone Transfer Point			
	SB-02		Closed Stone Transfer Point			
	SB-03		Closed Stone Transfer Point			
R117	BC-217		Closed Stone Transfer Point			
	BC-224		Closed Stone Transfer Point			
	VS-229	264 tph	Stone Screening	Telsmith	Specmaker	
R120a	BC-231		Closed Stone Transfer Point			
R120	BC-230		Closed Stone Transfer Point			
	SB-04		Closed Stone Transfer Point			
Kiln 1						
K102	PH-01		Closed Stone Transfer Point			
	KN-01	15 tph/ 81.25 MMBtu/hr	Rotary Kiln 1	KVS	10’ x 151’	
	CO-01		Cooler	KVS	Contact	
K102a	Diesel Engine; DOM: 07/28/2000	34 hp	Auxiliary Kiln Drive	Isuzu	C240	900825

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
K104	SC-01		Lime Transfer			
	SC-02		Lime Transfer			
	BE-03		Lime Transfer			
K106	BN-06		Bin Feeding			
	BN-06		Load Out			
K110	SC-04 (sealed)		Dust Transfer			
	SC-05 (sealed)		Dust Transfer			
	SC-07 (sealed)		Dust Transfer			
	SC-08		Dust Transfer			
	BE-06 (sealed)		Dust Transfer			
	SC-15 (sealed)		Dust Transfer			
K110a	SC-45		Dust Transfer			
	SC-46		Dust Transfer			
K114	BN-09		Bin Feeding			
	BN-09		Load Out			
Kiln 2						
K202	PH-02		Closed Stone Transfer Point	KVS		
	KN-02;	13 tph/ 81.25 MMBtu/hr	Rotary Kiln 2	KVS	10’ x 151’	
	CO-02		Cooler	KVS	Contact	
K202a	Diesel Engine	49 hp	Auxiliary Kiln Drive	Isuzu	C240	779553
K204	SC-02		Lime Transfer			
	BE-04		Lime Transfer			
K206	BN-07		Bin Feeding			
	BN-07		Load Out			
K208	SC-06		Dust Transfer			
	SC-09 (sealed)		Dust Transfer			
	SC-13 (sealed)		Dust Transfer			
	BE-07 (sealed)		Dust Transfer			
	SC-16 (sealed)		Dust Transfer			
K213	BN-10		Bin Feeding			
	BN-10		Load Out			
K215	DA-BN-502		Bin Feeding	Silotec		
	DA-SC-505 (sealed)		Dust Transfer			
	DA-SC-506 (sealed)		Dust Transfer			

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
Kiln 3						
K302	PH-03		Closed Stone Transfer Point	KVS		
	KN-03	17 tph/ 91.10 MMBtu/hr	Rotary Kiln 3	KVS	11' x 150'	
	CO-03		Cooler	KVS	Contact	
K302a	Diesel Engine; DOM: 12/2004	64.8 hp	Auxiliary Kiln Drive	Isuzu	BB-4JG1T	4JG1TPV
K304	SC-03 (sealed)		Lime Transfer			
	SC-04 (sealed)		Lime Transfer			
K306	BN-08		Bin Feeding			
	BN-08		Load Out			
K308	BN-18		Bin Feeding			
	SC-18		Dust Transfer			
	SC-18		Load Out			
	SC-11,12		Dust Transfer			
K309	D-SC-8306		Lime Transfer			
	BC53102		Lime Transfer			
	SC50101		Lime Transfer			
	D-BE-8307		Lime Transfer			
	SC50106		Lime Transfer			
K310	D-SC-53105		Lime Transfer			
K311	SC-53106 (sealed)		Dust Transfer			
Kiln 4						
K402	K4-PH-302		Closed Stone Transfer Point	KVS	LPD	
	K4-KN-305	56.25 tph/ 281.25 MMBtu/hr	Rotary Kiln 4	KVS	18' x 215'	
	K4-CO-309		Cooler	KVS-Niems	Contact	
K402a	Diesel Engine; DOM: 01/2013	174 hp	Auxiliary Kiln Drive	Perkins	MK51645	1204E-E44TTA
K404	K4-BC-501		Lime Transfer			
	K4-BC-502		Lime Transfer			
	K4-BC-503		Lime Transfer			
	K4-BC-504		Lime Transfer			
K408	K4-DBN-1		Dribble Chute Bin			
	K4-DBN-2		Dribble Chute Bin			
	K4-DBN-3		Dribble Chute Bin			
	K4-DBN-4		Dribble Chute Bin			
	K4-DBN-1		Dribble Chute Bin Load Out			

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
	K4-DBN-2		Dribble Chute Bin Load Out			
	K4-DBN-3		Dribble Chute Bin Load Out			
	K4-DBN-4		Dribble Chute Bin Load Out			
K410	Kiln Seal		Dribble Chute Bin			
	Kiln Seal		Dribble Chute Bin Load Out			
K412	K4-SC-326		Dust Transfer			
	K4-SC-327		Dust Transfer			
	K4-SC-328		Dust Transfer			
	K4-SC-329		Dust Transfer			
	K4-BE-330		Dust Transfer			
K417	K4-BN-508		Bin Feeding			
	K4-BN-508		Load Out			
K418	K4-SC-342		Dust Transfer			
Solid Fuel Handling						
F101	HO-40,41 (enclosed)		Fuel Transfer			
	BC-40 (sealed)		Fuel Transfer			
	BC-44		Fuel Transfer			
	Loader Loading		Fuel Transfer			
	Loader Unloading		Fuel Transfer			
F104	CR-40 (enclosed)	100 tph	Fuel Crushing	McLanahan	Black Diamond	
	SC-44 (enclosed)		Fuel Transfer			
F106	BN-41		Bin Feeding			
	BC-41		Fuel Transfer			
F108	CM-41 (sealed)	4.6 tph	Fuel Crushing	Raymond	493	
F110	SC-41 (sealed)		Fuel Transfer			
	Reject Bin 1		Bin Feeding			
	Reject Bin 1 Loadout		Fuel Transfer			
F112	BN-42		Bin Feeding			
	BC-42		Fuel Transfer			
F114	CM-42 (sealed)	4.6 tph	Fuel Crushing	Raymond	493	
F116	SC-42 (sealed)		Fuel Transfer			
	Reject Bin 2		Bin Feeding			
	Reject Bin 2 Load Out		Fuel Transfer			
F118	BN-43 (enclosed)		Bin Feeding			
	BC-43		Fuel Transfer			
	CM-43 (sealed)	5.6 tph	Fuel Crushing	Raymond	533	

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
F122	SC-43 (sealed)		Fuel Transfer			
	Reject Bin 3		Bin Feeding			
	Reject Bin 3 Load Out		Fuel Transfer			
F125	K4-SC-402 (sealed)		Fuel Transfer			
	K4-BN-404		Bin Feeding	KVS		
	K4-BN-406		Bin Feeding	KVS		
	K4-WF-408		Fuel Transfer	Merrick	455	
	K4-WF-409		Fuel Transfer	Merrick	455	
	K4-BC-410		Fuel Transfer			
F131	K4-CM-413 (sealed)	14.1 tph	Fuel Crushing	Raymond	613 RB	
F132	K4-SC-419 (sealed)		Fuel Transfer			
	Reject Bin 4		Bin Feeding			
	Reject Bin 4 Load Out		Fuel Transfer			
F133	Truck Loading Coal/Coke (Stockpile 2)		Fuel Transfer			
North Lime Handling						
L101	SC-24		Lime Transfer			
	SC-25 (sealed)		Lime Transfer			
	BC-505/BC-20		Lime Transfer			
	BE-20		Lime Transfer			
L105	K4-BN-518		Bin Feeding			
	K4-SC-524		Lime Transfer			
L108	HM-20 (sealed)	50 tph	Product Crushing	Williams	220 K2	
L110	VS-20	150 tph	Screening Product	Tyler		
	SI-02		Bin Feeding			
	SC-21 (sealed)		Lime Transfer			
L112	SI-01		Bin Feeding			
	SC-23 (sealed)		Lime Transfer			
	SC-26 (sealed)		Lime Transfer			
L116	SI-06		Bin Feeding			
	SC-27 (sealed)		Lime Transfer			
L118	SI-07		Bin Feeding			
	SC-28		Lime Transfer			
	SC-20 (sealed)		Dust Transfer			

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
South Lime Handling						
L201	K4-BC-506		Lime Transfer			
	SC-4029		Lime Transfer			
	SC-30		Lime Transfer			
	K4-BC-507		Lime Transfer			
	BE-30		Lime Transfer			
	BC-32 (enclosed)		Lime Transfer			
	Clean-up Screw Conveyor (enclosed)		Lime Transfer			
L206	CR-30	150 tph	Product Crushing	KVS	3636 RBM	
	BE-31		Lime Transfer			
	VS-30		Screening Product			
	SC-47		Lime Transfer			
	SC-48		Lime Transfer			
	SC-49		Lime Transfer			
L208	SI-04 (enclosed)		Bin Feeding			
	SI-09 (enclosed)		Bin Feeding			
	SI-03 (enclosed)		Bin Feeding			
	SI-10		Bin Feeding			
	SI-08 (enclosed)		Bin Feeding			
L209	SC-39 (sealed)		Lime Transfer			
	SC-38 (sealed)		Lime Transfer			
	SC-38A (sealed)		Lime Transfer			
	SC-37 (sealed)		Lime Transfer			
	SC-36 (sealed)		Lime Transfer			
	SC-40 (sealed)		Dust Transfer			
	SC-41 (sealed)		Dust Transfer			
Hydrate						
H101	SC-101 (sealed)		Hydrate Transfer			
H102	Small Bin (enclosed)		Bin Feeding			
	SC-105 (sealed)		Hydrate Transfer			
H105	MX-106 (sealed)		Hydrate Transfer	Scott	2060 BU	
	HY-107		Hydrator	CLC	10.5’ x 2.1’	
	Hydrator Baghouse Burner	1.83 MMBtu/hr	Gas combustion			
	SC-111 (sealed)		Hydrate Transfer			

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
H108	BE-113 (sealed)		Hydrate Transfer			
	VS-115 (enclosed)	28 tph	Product Screening	W.S. Tyler	V85	
	SC-117 (sealed)		Hydrate Transfer			
H109	CR-116 (sealed)	5 tph	Product Crushing	Mikropul	#4	
H110	SC-119 (sealed)		Hydrate Transfer			
H116	SC-118 (sealed)		Hydrate Transfer			
	BE-120 (sealed)		Hydrate Transfer			
	SC-121 (sealed)		Hydrate Transfer			
	SI-05		Bin Feeding			
Dolomite Handling						
D101	D-BN-201		Open Stone Transfer Point			
	D-BC-202		Open Stone Transfer Point			
D104	D-BC-207		Open Stone Transfer Point			
	D-VS-208	250 tph	Screening Stone	Kinergy	KDSNTD-72-HD	
D104a	D-BC-213		Open Stone Transfer Point			
D104b	D-BC-214		Open Stone Transfer Point			
D104c	D-BC-23100		Open Stone Transfer Point			
D105	D-BC-209		Open Stone Transfer Point			
	D-BE-210		Open Stone Transfer Point			
	D-BN-211		Open Stone Transfer Point			
	D-BN-211		Load Out			
D106	D-BC-209E		Emergency Conveyor			
	Loader Loading		Temporary Stockpile to Loader			
Lime Handling						
D201	D-HM-510 (sealed)	25 tph	Product Crushing	Williams	30NF	
D202	D-SC-511 (sealed)		Lime Transfer			
	D-SC-512		Lime Transfer			
	D-SC-513		Lime Transfer			
	D-SC-514		Lime Transfer			
	D-SC-515		Lime Transfer			
D208	D-SC-516 (sealed)		Lime Transfer			
	SI-11, SI-12		Bin Feeding			
D211	D-BE-4214		Lime Transfer			
	D-BN-504		Bin Feeding			
	D-SC-508 (sealed)		Lime Transfer			
D212	BE-03 to D-HM-510		Lime Transfer			

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
Miscellaneous Operations						
O101	Ore Spillage		Open Stone Transfer Point			
	Ore Spillage Reclaim		Open Stone Transfer Point			
	Ore Reclaim Unloading		Open Stone Transfer Point			
	Product Spillage		Lime Transfer			
	Product Spillage Reclaim		Lime Transfer			
	Product Reclaim Unloading		Load Out			
O107	Kiln 1-3 Dump/Bypass		Lime Transfer			
	Kiln 1-3 Dump/Bypass Reclaim		Lime Transfer			
	Kiln 1-3 Dump/Bypass Unloading		Load Out			
O110	Diesel Engine; DOM: 2006+	302 hp	Electric Generation (rental)	Various	Various	Various
	Emergency Genset			Various	Various	Various
O111	Diesel Engine; DOM: 1996	110 hp	Fire Suppression	Perkins/ Detroit Diesel	1006-6T	703260 U609748A
	Fire Pump			Clarke	PDFP-L6YT2504	U609748A
O112	Emergency Generator	11 kW	Electric Generation	Kubota	GL11000	TBD
	Diesel Engine; DOM: 2023	16.3 hp			D722	TBD
5,000 Ton Storage Silo Reclaim System						
S101	Kiln Product to BC-8001		Lime Transfer			
S102	BC-8001 to BE-8001		Bin Feeding			
	BE-8001 to SC-8001		Lime Transfer			
	SC-8001 to SI-RC		Lime Transfer			
	SI-RC to BC-8002		Lime Transfer			
	BC-8002		Lime Transfer			
Quick Lime Truck and Rail Load Out System						
LO101	SC-5001		Lime Transfer			
	TC-1001		Load Out			
LO104	BCF-5002		Lime Transfer			
	BCF-5003		Lime Transfer			
	TC-1002		Load Out			
LO106	BCF-5004		Lime Transfer			
	BCF-5005		Lime Transfer			
	TC-1003		Load Out			

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
LO109	BCF-5006		Lime Transfer			
	BCF-5007		Lime Transfer			
	TC-1004		Load Out			
LO112	SC-5008		Lime Transfer			
	TC-1005		Load Out			
LO114	BCF-5009		Lime Transfer			
	BCF-5010		Lime Transfer			
	TC-1006		Load Out			
LO117	BCF-5011		Lime Transfer			
	BCF-5012		Lime Transfer			
	TC-1007		Load Out			
Portable Screening Plant						
SP1	Hopper Loading & Unloading		Open Stone Transfer Point			
	Conveyor Belt SP-2		Open Stone Transfer Point			
SP3	Screen SP-3		Stone Screening			
	Stacker Belt 1		Open Stone Transfer Point			
	Stacker Belt 2		Open Stone Transfer Point			
	Stacker Belt 3		Open Stone Transfer Point			
LD4	Loader Loading		Open Stone Transfer Point			
	Loader Unloading		Open Stone Transfer Point			
Chat Transloader Operations– Alternate Operating Scenario						
TL201	Hopper Loading & Unloading		Open Stone Transfer Point			
	Conveyor Belt to Truck		Open Stone Transfer Point			
Transloader						
TL1	Railcar Unloading (baghouse)		Product Transfer			
Lime Screening System						
L101a	Conveyor SC-24 to Conveyor D-SC-4221		Lime Transfer (From North Lime Handling)			
	Conveyor D-SC-4221 to Bucket Elevator BE-03		Lime Transfer			
K104b	Conveyor SC-02 to Conveyor D-SC-4207		Lime Transfer (From Kiln 1)			

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
PL101	Conveyor D-SC-4207 to Bucket Elevator D-BE-4214		Lime Transfer			
PL102	Bucket Elevator D-BE-4214 to Bin D-BN-504		Bin Feeding			
PL103	Bucket Elevator D-BE-4214 to Conveyor D-SC-4215		Lime Transfer			
PL104	Conveyor D-SC-4215 to Dololime Screen D-VS-4216		Lime Transfer			
	Dololime Screen D-VS-4216		Screening Product			
	Dololime Screen D-VS-4216 to Silo 6		Lime Transfer			
	Dololime Screen D-VS-4216 to Conveyor D-SC-4217		Lime Transfer			
PL105	Conveyor D-SC-4217 to Conveyor SC4220		Lime Transfer			
	Conveyor SC4220 to Crusher D-HM-510		Lime Transfer			
PL106	D-SC-4218		Dust Transfer			
PL107a	SN-50118		Product Screening			
PL107b	CF-50116		Product Crushing			
PL107c	SC-50115		Lime Transfer			
	SC-50117		Lime Transfer			
	SC-50114		Lime Transfer			
	SC-50119		Lime Transfer			
PL107d	SC-50125		Dust Transfer			
Haul Roads						
VPW	Haul Roads		Paved & Unpaved			
Reject Material Removal						
A1	Reject Material Removal		Loader Loading & Unloading			
Open Storage Areas						
A01	Quarry Areas	15.18 acres				
	Limestone at Hopper	1.72 acres				
	Fine Kiln Feed Stockpile	2.51 acres				
	Course Kiln Feed Stockpile	2.74 acres				

EU	Source EU Identifier	Rating	Process Description	Manufacturer	Model No.	Serial No.
	Glass Flux Feed Stockpile	8.76 acres				
	Kiln 4 Chat Stockpile	0.04 acres				
	Chat Stockpile	0.61 acres				
	Solid Fuel Stockpile; Coal/Coke	9.51 acres				
	Dolomite Stockpile	0.82 acres				
	Fine Dolomite Stockpile	1.80 acres				
	Coarse Dolomite Stockpile	1.81 acres				
	Portable Screening Plant Stockpiles	2.25 acres				
	Dolomite at Hopper	2.01 acres				
	Waste Lime Stockpile	3.07 acres				
	Waste Flue Dust Stockpile	3.08 acres				
	Temporary Stockpile	0.25 acre				
	Aggregate Plant Stockpiles	7.33 acres				
Fuels Dispensing						
T101	Aboveground Storage Tank	1,000 gallons	Gasoline Dispensing	Convault		

1.2 INSIGNIFICANT ACTIVITIES

The units in Table 1-2 are present at this source, but are insignificant activities pursuant to AQR 12.5.2.5. The emissions from these units or activities, when added to the PTE of the source, will not make the source major for any additional pollutant.

Table 1-2: Summary of Insignificant Activities

Rating	Description
10,000 gallons	Storage Tank (Diesel)
	Oil and Lubricant Use
	Solvent Use
	Thinner Use

1.3 NONROAD ENGINES

Pursuant to Title 40, Part 1068.30 of the Code of Federal Regulations (40 CFR Part 1068.30), nonroad engines that are portable or transportable (i.e., not used on self-propelled equipment) shall not remain at a location for more than 12 consecutive months; otherwise, the engine(s) will constitute a stationary reciprocating internal combustion engine (RICE) and be subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ; 40 CFR Part 60, Subpart IIII; and/or 40 CFR Part 60, Subpart JJJJ. Stationary RICE shall be permitted as emission units upon commencing operation at this stationary source.

Records of location changes for portable or transportable nonroad engines shall be maintained, and shall be made available to the Control Officer upon request. These records are not required for engines owned and operated by a contractor for maintenance and construction activities as long as records are maintained demonstrating that such work took place at the stationary source for periods of less than 12 consecutive months.

Nonroad engines used on self-propelled equipment do not have this 12-month limitation or the associated recordkeeping requirements.

2.0 CONTROLS

2.1 CONTROL DEVICES

1. The permittee shall operate each control device at all times the affected emission unit is operating, as indicated in Table 2-1. *[AQR 12.5.2.6]*

Table 2-1: Summary of Add-On Control Devices

Affected EU	Device Type	Identification	Manufacturer	Model No.	Pressure Range (inches of Water Column)	Pollutant
K102 & K110	Baghouse	DC-01	Amerair Industries, Inc.			$PM_{10}/PM_{2.5}$
K202 & K208	Baghouse	DC-02	Joy Manufacturing	HT-10N		$PM_{10}/PM_{2.5}$
K302 & K308	Baghouse	DC-03				$PM_{10}/PM_{2.5}$
K114	Baghouse	DC-04	Mikropul	36-8-30	2 – 9	$PM_{10}/PM_{2.5}$
K213	Baghouse	DC-05	Mikropul	36-8-30	2 – 9	$PM_{10}/PM_{2.5}$
L101, L110, L112, L116, L118, L201 & K104	Baghouse	DC-20	Mikropul	144S-8-20	1 – 8	$PM_{10}/PM_{2.5}$
K404 & L201	Baghouse	DC-30N	Mikropul	36-8-30	3 – 10	$PM_{10}/PM_{2.5}$
L208	Baghouse	DC-37			3 – 8	$PM_{10}/PM_{2.5}$
L206	Baghouse	DC-36	Serbaco		3 – 9	$PM_{10}/PM_{2.5}$
H105 & H116	Baghouse	DC-109	Fuller	224 TA8	1 – 8	$PM_{10}/PM_{2.5}$
K215	Bin Vent	DA-DC-507	Fuller	25DS8	2 – 8	$PM_{10}/PM_{2.5}$
D211 & PL102	Bin Vent	D-DC-505	Mikropul	16S-10-30	2 – 9	$PM_{10}/PM_{2.5}$
D202 & D208	Bin Vent	D-DC-520	Mikropul	64S-8-20	3 – 9	$PM_{10}/PM_{2.5}$
D202	Baghouse	D-DC-526	Mikropul	64S-8-20	2 – 8	$PM_{10}/PM_{2.5}$
K402	Baghouse	K4-DC-316	Industrial Accessories	84FRIPA314		$PM_{10}/PM_{2.5}$
K402	Baghouse	K4-DC-340	Amerex Industries	RP-10225D6	1 – 8	$PM_{10}/PM_{2.5}$
F125	Baghouse	K4-DC-421	Amerex Industries	RP-1016D6	1 – 8	$PM_{10}/PM_{2.5}$
K417	Bin Vent	K4-DC-509	Amerex Industries	RP-1016D6	3 – 10	$PM_{10}/PM_{2.5}$
Filter Receiver	Baghouse	K4-DC-516	Industrial Accessories	84FRIPA321	3 – 8	$PM_{10}/PM_{2.5}$
L105	Bin Vent	K4-DC-519	Amerex Industries	RP-1016D6	3 – 8	$PM_{10}/PM_{2.5}$
L201 & S101	Baghouse	DC-8001	Airtrol Inc.	144B5RS120	3 – 8	$PM_{10}/PM_{2.5}$
S102	Baghouse	DC-8002	Airtrol Inc.	12PSSF57	1 – 7	$PM_{10}/PM_{2.5}$
S102	Baghouse	DC-8003	Airtrol Inc.	12PSSF57	2 – 8	$PM_{10}/PM_{2.5}$
S102	Baghouse	DC-8004	Airtrol Inc.	32FS857	3 – 8	$PM_{10}/PM_{2.5}$
LO104	Baghouse	DC-5001	Airtrol Inc.	32PSSF57	3 – 8	$PM_{10}/PM_{2.5}$
LO106	Baghouse	DC-5002	Airtrol Inc.	32PSSF57	3 – 8	$PM_{10}/PM_{2.5}$
LO109	Baghouse	DC-5003	Airtrol Inc.	32PSSF57	3 – 8	$PM_{10}/PM_{2.5}$

Affected EU	Device Type	Identification	Manufacturer	Model No.	Pressure Range (inches of Water Column)	Pollutant
LO114	Baghouse	DC-5004	Airtrol Inc.	32FS857	3 – 9	$PM_{10}/PM_{2.5}$
LO117	Baghouse	DC-5005	Airtrol Inc.	32FS857	3 – 9	$PM_{10}/PM_{2.5}$
LO112	Baghouse	DC-5006			3 – 9	$PM_{10}/PM_{2.5}$
LO101	Baghouse	DC-5007	Airtrol Inc.	12PSSF57	3 – 8	$PM_{10}/PM_{2.5}$
PL104	Baghouse	D-DC-4217			2 – 7	$PM_{10}/PM_{2.5}$
K204	Baghouse	K2-DC-505N[1]			3 – 8	$PM_{10}/PM_{2.5}$
K204	Baghouse	K2-DC-506S[1]			2 – 8	$PM_{10}/PM_{2.5}$
K304	Baghouse	DC-CA-04			3 – 8	$PM_{10}/PM_{2.5}$
PL107(a-c)	Baghouse	D-DC-50122			3 – 8	$PM_{10}/PM_{2.5}$

[1] K2-DC-505N and K2-DC-506S shall not operate simultaneously.

2.2 CONTROL REQUIREMENTS

Blasting [AQR 12.5.2.6(a), AQR 40.1, AQR 41.1]

1. The permittee shall pre-water surface soils and maintain them in a stabilized condition where drills, support equipment, and vehicles will operate.

2. The permittee shall have a water source available and utilized during all drilling and blasting operations to minimize emissions.

3. The permittee shall document current and predicted weather conditions, as provided by the National Weather Service, before setting explosive charges in holes.

4. If the current forecast is for wind gusts of 25 mph or greater or if winds are forecast to be 25 mph or greater within the next 24 hours, the permittee shall not charge any blast holes.

5. Blasting shall not occur when wind gusts of 25 mph or more are forecast by the National Weather Service, or during the duration of a DAQ-issued construction notice or dust advisory, unless holes were already charged at the time of the forecast.

6. The permittee shall water the disturbed soils or blast material to stabilize the area immediately following the blast and all-clear signal.

Baghouses and Bin Vents [12.5.2.6]

7. The permittee shall use a baghouse to control particulate emissions at all times that the processing equipment is operating (EUs: D202, F125, H105, H116, K102, K104, K110, K114, K202, K204, K208, K213, K302, K304, K308, K402, K404, L101, L110, L112, L116, L118, L201, L206, L208, LO101, LO104, L106, L109, LO112, LO114, LO117, PL104, S101, and S102).

8. The permittee shall maintain the pressure drop across each baghouse within the range specified in Table 2-1.

9. The permittee shall utilize a bin vent to effectively control particulate emissions at all times the processing equipment is operating (EUs: D202, D208, D211 K215, K417, L105, and PL102).

10. The permittee shall operate and maintain each bin vent per manufacturer's recommendations or in accordance with the SOP, as revised, and good air pollution control practices

Engines

11. The permittee shall only combust diesel fuel with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35% by volume in each generator (EU: K402a, O110, and O112). *[40 CFR 60.4207(b)]*

12. The permittee shall operate and maintain each diesel engine in accordance with the manufacturer's specifications (EUs: K102a, K202a, K302a, K402a, O110, O111, 112, and QS101). *[40 CFR Part 60, Subpart IIII and 40 CFR Part 63, Subpart ZZZZ]*

13. The permittee shall comply with the following requirements for each nonemergency diesel engine (EUs: K102a, K202a, K302a, and QS101): *[40 CFR Part 63.6602]*

    a. Change the oil and filter every 1,000 hours of operation or annually, whichever comes first.

    b. Inspect all air cleaners every 1,000 hours of operation or annually, whichever comes first.

    c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

    d. Minimize the time each engine spends at idle during startup and minimize the startup time to a period needed for safe loading of the engine, not to exceed 30 minutes. *[40 CFR Part 63.6625(h)]*

14. The permittee shall comply with the following requirements for each emergency diesel engine (EUs: O110, O111, and O112): *[40 CFR Part 63.6602]*

    a. Change the oil and filter every 1,000 hours of operation or annually, whichever comes first.

    b. Inspect all air cleaners every 1,000 hours of operation or annually, whichever comes first.

    c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

Fugitive Dust

15. The permittee shall control fugitive dust emissions from all paved haul roads located on the site. Preventative measures shall include, but are not limited to, vacuuming, sweeping, and/or rinsing every weekday (except legal holidays) as necessary. If weekend and/or legal holiday activity at the facility increases above current minimal operations, the Control Officer may revise this condition as appropriate. Daily vacuuming, sweeping, or rinsing of paved haul roads is not required on any given day to control silt loading if silt loading on paved haul roads is effectively controlled by natural precipitation on that day. *[NSR ATC Section IV-B, Condition 3(a) (01/16/2014)]*

16. The permittee shall maintain paved roads to such extent that the silt loading does not exceed 3 grams per square meter, regardless of the average number of vehicles per day. *[NSR ATC Section IV-B, Condition 3(b) (01/16/2014)]*

17. The permittee shall control fugitive dust emissions from all unpaved haul roads located on the site. Preventative measures shall include, but are not limited to, paving, applying a dust palliative, or using an alternative method approved by the Control Officer so as to not exhibit opacity greater than 20% using the AQR opacity test method for unpaved roads. *[NSR ATC Section IV-B, Conditions 3(c) (01/16/2014)]*

18. The permittee shall maintain unpaved roads to such an extent that the silt loading does not exceed 3%, regardless of the average number of vehicles per day. *[NSR ATC Section IV-B, Conditions 3(d), (01/16/2014)]*

19. The permittee shall minimize visible deposits of mud, silt, rock, or soil trackout attributable to site operations and visible on public or private paved roads or paved parking lots. Preventative measures shall include, but are not limited to, sweeping or washing every weekday (except legal holidays) and as needed. If weekend and/or legal holiday activity at the facility increases above current minimal operations, the Control Officer may revise this condition as appropriate. *[NSR – ATC/OP Modification 10, Section III-B, Condition 15, (05/22/06)]*

20. The permittee shall vent captured emissions from each emission unit subject to 40 CFR Part 63, Subpart AAAAA, equipped with an add-on air pollution control device though a closed system. Dilution air may be added to emission streams for the purpose of controlling temperature at the inlet to a fabric filter. *[40 CFR Part 63.7090(b), Table 2, Item 6]*

21. The permittee shall ensure that all loaded trucks leaving the site, regardless of ownership, shall be properly covered or sealed to prevent visible emissions during hauling of materials. *[NSR – ATC/OP Modification 10, Section III-B, Condition 14 (05/22/06)]*

22. The permittee shall require haul truck drivers to clean and remove any loose debris from the haul trucks prior to leaving the facility. This condition applies to trucks regardless of whether they are owned and operated by the permittee. *[AQR 12.5.2.6]*

23. The permittee shall inspect water spray systems on each day that limestone processing operations are conducted. Water sprays shall be maintained in good operating condition and shall be used to control fugitive emissions. *[NSR – ATC/OP Modification 10, Section III-B, Condition 3 (05/22/06)]*

24. Any disturbed vacant area that is greater than 5,000 square feet and that is closed or idled for a period of 30 or more consecutive days shall be stabilized within 10 days following the cessation of active operations in that vacant area. Long-term stabilization includes, but is not limited to, one or more of the following: applying water to form a crust, applying palliatives, applying gravel, paving, denying unauthorized access, or any other effective control measure to prevent fugitive dust from becoming airborne. *[NSR – ATC/OP Modification 10, Section III-B, Condition 13 (05/22/06)]*

25. The permittee shall ensure that fugitive dust emissions from emission units not classified elsewhere exhibit an average opacity no greater than 20%, as determined by conducting observations in accordance with EPA Method 9. *[AQR 26.1.1]*

Other

26. The permittee shall comply with the control requirements contained in this section. If there is inconsistency between standards or requirements, the most stringent standard or requirement shall apply. *[NSR – ATC/OP Modification 10, Revision 0, Section III-B, Condition 35 (05/22/06]*

27. Control measures outlined in this permit, and other measures needed for maintaining dust control, shall be implemented 24 hours a day, 7 days a week. *[AQR 94.13(b)]*

28. The permittee shall not cause, suffer, or allow any source to discharge air contaminants (or other materials) in quantities that will cause a nuisance, including excessive odors. *[AQR 43]*

3.0 LIMITATIONS AND STANDARDS

3.1 OPERATIONAL LIMITS

Mining/Drilling/Blasting

1. The permittee shall limit mining operations to 8,294,600 tons per any consecutive twelve-month period (EU: Q101). *[NSR ATC Section IV-B, Condition 2(a), (01/16/2014)]*

2. The permittee shall limit the use of ammonium nitrate/fuel oil (ANFO) explosive, or other blasting materials, to 2,100 tons per any consecutive twelve-month period (EU: Q103). *[NSR ATC Section IV-B, Condition 2(b), (01/16/2014)]*

3. The permittee shall limit the total blasting area to 65,000 square feet per blast and 5,200,000 square feet per year (EU: Q103). *[NSR ATC Section IV-B, Condition 2(c), (01/16/2014)]*

4. The permittee shall limit the total number of drilled holes to 24,522 holes per any consecutive twelve-month period (EU: Q103). *[Part 70 OP 07/14/2020]*

Limestone/Lime Processing

5. The permittee shall limit the amount of limestone processing (crushing and screening) to 2,680,000 tons per any consecutive twelve-month period (EUs: P103 – P129). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

6. The permittee shall limit dolomite handling and processing to 466,816 tons per any consecutive twelve-month period (EUs: D101-D106. *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

7. The permittee shall limit lime handling to 146,000 tons per any consecutive twelve-month period (EUs: D201-D211). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)] [Part 70 OP 07/14/2020]*

8. The permittee shall limit the limestone throughput at the portable screening plant to 1,500,000 tons per any consecutive twelve-month period (EUs: SP1-LD4). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

9. The permittee shall limit the throughput of the chat transloader operation to 750,000 tons per any consecutive twelve-month period (EU: TL201). *[AQR 12.5.2.6(a)]*

10. The permittee shall not operate the portable screening plant (EUs: SP1, SP3, and LD4) and the transloader operation (EU: TL201) simultaneously. *[AQR 12.5.2.6(a)]*

11. The permittee shall limit the transloading of materials to 75,000 tons per any consecutive twelve-month period (EU: TL1). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

12. The permittee shall limit the quicklime loadout to trucks and railcars to 800,196 tons per any consecutive twelve-month period (EUs: LO101-LO117). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

13. The permittee shall limit lime transfer through the silo reclaim system to 180,000 tons per any consecutive twelve-month period (EUs: S101 and S102). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

14. The permittee shall limit the lime handling (north) to 458,644 tons per any consecutive twelve-month period (EUs: L101-L118). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

15. The permittee shall limit the lime handling (south) to 1,095,750 tons per any consecutive twelve-month period (EUs: L201-L209). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

16. The permittee shall limit production of lime material through the Lime Screening System to 146,000 tons per any consecutive twelve-month period (EUs: L101a, K104b, and PL101 - PL107d). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)] [Part 70 OP 07/14/2020]*

17. The permittee shall limit production of hydrated material through the Hydrate System to 93,015 tons per any consecutive twelve-month period (EUs: H101-H116). *[AQR 12.5.2.6(a)]*

18. The permittee shall limit the consumption of natural gas for combustion of the hydrator baghouse burner to 16 million cubic feet per any consecutive twelve-month period. (EU: H105) *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

Kilns

19. The permittee shall limit the lime throughputs in Kiln 1 and Kiln 2 to 109,500 tons each per any consecutive twelve-month period (EUs: K102 and K202). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

20. The permittee shall limit the total lime throughput in Kiln 3 to 146,000 tons per any consecutive twelve-month period (EU: K302). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

21. The permittee shall limit the lime throughput in Kiln 4 to 1,350 tons per day, based on a calendar month average, and to 475,000 tons per any consecutive twelve-month period (EU: K402). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

Engines

22. The permittee shall limit the operation of each emergency generator for testing and maintenance purposes to 100 hours/year. The permittee may operate the emergency generator up to 50 hours/year for nonemergency situations, but those hours count towards the 100 hours provided for testing and maintenance. Except as provided below (a–e inclusive), the emergency generator cannot be used for peak shavings or nonemergency demand response, or to generate income for a facility by supplying power to an electric grid or to otherwise supply power as part of a financial arrangement with another entity (EUs: O110, and O112): *[40 CFR Part 60.4211]*

a. The engine is dispatched by the local balancing authority and/or local transmission and distribution operator.

b. The dispatch is intended to mitigate local transmission and/or distribution limitations to avert potential voltage collapse or line overloads that could lead to interruption of power supply in a local area or region.

c. The dispatch follows reliability, emergency operation, or similar protocols that follow specific NERC, regional, state, public utility commission, or local standards or guidelines.

d. The power is provided only to the facility itself or to support the local transmission and distribution system.

e. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission, or local standards or guidelines that are being followed for the dispatching engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

23. The permittee shall limit the operation of the diesel-powered emergency generator (rental) to a maximum manufacturer's advertised rating of 302 horsepower (EU: O110). *[AQR 12.5.2.6]*

24. The permittee shall limit the operation of the 174 hp (EU: K402a), the two 49 hp (EUs: K102a and K202a), and the 64.8 hp (K302a) diesel auxiliary kiln drive engines to a maximum of 500 hours each per any consecutive twelve-month period. *[APCHB Order on Appeal of Part 70 OP (10/15/2012)] [Part 70 OP 07/14/2020]*

Gasoline Dispensing

25. The permittee shall limit the throughput of gasoline products to 60,000 gallons per any consecutive twelve-month period. (EU: T101). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

Solid Fuel Handling/Processing/Combustion

26. The permittee shall limit solid fuel handling and processing to 600,631 tons per any consecutive twelve-month period (EUs: F101-F132). *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

27. The amount of sulfur in solid fuel input to Kiln #1 shall not exceed 707 pounds in any three-hour period (EU: K102). *[NSR-ATC Modification 6, Section C, Condition 11 (7/26/1999)]*

28. The amount of sulfur in solid fuel input to Kiln #2 shall not exceed 464 pounds in any three-hour period (EU: K202). *[NSR-ATC Modification 6, Section C, Condition 12 (7/26/1999)]*

29. The amount of sulfur in solid fuel input to Kiln #3 shall not exceed 719 pounds in any three-hour period (EU: K302). *[NSR-ATC Modification 6, Section C, Condition 13 (7/26/1999)]*

30. The permittee shall limit truck loading of coal and coke to 100,000 tons per year (EU: F133). *[AQR 12.5.2.6]*

Haul Roads/Stockpiles

31. The permittee shall limit the accumulated stockpile areas to a maximum of 63.5 acres (EU: A01). *[AQR 12.5.2.6]*

32. The permittee shall limit the vehicle miles traveled on paved and unpaved roads to 514,075 miles in any consecutive 12-month period (EU: VPW). *[AQR 12.5.2.6]*

3.2 EMISSION LIMITS

1. The permittee shall operate all emission units in Tables 3-1 and 3-2, inclusive, in a manner so that neither the actual nor the allowable emissions shall exceed the emission unit PTE. *[NSR – ATC/OP Modification 10, Revision 0, Section II-A and Section II-B, Condition 1, 05/22/06, Part 70 OP 07/14/2020 and AQR 12.5.2.6]*

Table 3-1: Emission Unit PTE (tons per year)

EU	Condition[1]	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_2	VOC	H_2S	Pb	HAP (HCl)	HAP (other)
Q101	8,294,600 tons/year	36.85	5.39	0	0	0	0	0	0	0	0
Q103	5,200,000 ft^2/year	4.81	0.72	17.85	70.35	3.15	0	0	0	0	0
	24,552 holes/year	8.30	1.24	0	0	0	0	0	0	0	0
QS101	8,760 hours/year	0.77	0.77	5.29	2.34	0.01	0.87	0	0	0	0.02
P103	2,680,000 tons/year	0.18	0.05	0	0	0	0	0	0	0	0
P103a	1,125,600 tons/year	1.35	0.25	0	0	0	0	0	0	0	0
P106	4,569,480 tons/year	0.95	0.09	0	0	0	0	0	0	0	0
P107	2,284,740 tons/year	0.85	0.06	0	0	0	0	0	0	0	0
P109	1,889,480 tons/year	0.06	0.02	0	0	0	0	0	0	0	0
P109a	1,889,480 tons/year	2.27	0.42	0	0	0	0	0	0	0	0
P112	670,000 tons/year	0.38	0.11	0	0	0	0	0	0	0	0
P114	1,086,719 tons/year	0.09	0.05	0	0	0	0	0	0	0	0
P115	1,279,259 tons/year	0.07	0.05	0	0	0	0	0	0	0	0
P129	233,408 tons/year	0.26	0.07	0	0	0	0	0	0	0	0
R101	778,026 tons/year	0.34	0.05	0	0	0	0	0	0	0	0
R106	38,901 tons/year	0.04	0.03	0	0	0	0	0	0	0	0
R108	739,125 tons/year	0.09	0.07	0	0	0	0	0	0	0	0
R117	1,068,750 tons/year	0.42	0.05	0	0	0	0	0	0	0	0
R120a	106,875 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
R120	961,875 tons/year	0.04	0.02	0	0	0	0	0	0	0	0
K102	221,738 tons/year	0.13	0.02	343.49	122.97	413.09	0.99	0	0	14.38	0.24
K102a	500 hours/year	0.01	0.01	0.07	0.02	0.01	0.01	0	0	0	0.01
K104	109,500 tons/year	0.03	0.03	0	0	0	0	0	0	0	0

EU	Condition[1]	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_2	VOC	H_2S	Pb	HAP (HCl)	HAP (other)
K106	8,760 tons/year	0.95	0.15	0	0	0	0	0	0	0	0
K110	26,049 tons/year	0.07	0.06	0	0	0	0	0	0	0	0
K110a	13,140 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
K114	32,619 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
K202	109,500 tons/year	0.13	0.02	349.85	125.16	271.56	1.12	0	0	1.40	0.27
K202a	500 hours/year	0.02	0.02	0.18	0.11	0.01	0.03	0	0	0	0.01
K204	109,500 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
K206	8,760 tons/year	0.95	0.15	0	0	0	0	0	0	0	0
K208	30,660 tons/year	0.07	0.05	0	0	0	0	0	0	0	0
K213	30,660 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
K215	6,000 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
K302	295,650 tons/year	0.17	0.02	478.15	171.55	419.75	1.40	0	0	2.29	0.34
K302a	500 hours/year	0.01	0.01	0.18	0.11	0.01	0.03	0	0	0	0.01
K304	146,000 tons/year	0.09	0.03	0	0	0	0	0	0	0	0
K306	10,950 tons/year	1.18	0.19	0	0	0	0	0	0	0	0
K308	4,380 tons/year	0.04	0.04	0	0	0	0	0	0	0	0
K309	146,000 tons/year	0.40	0.10	0	0	0	0	0	0	0	0
K310	146,000 tons/year	0.08	0.02	0	0	0	0	0	0	0	0
K311	17,250 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
K402	961,875 tons/year	0.54	0.02	702.05	475.00	539.13	3.48	0	0	3.08	0.85
K402a	500 hours/year	0.01	0.01	0.19	0.01	0.01	0.01	0	0	0	0.01
K404	285,000 tons/year	0.54	0.17	0	0	0	0	0	0	0	0
K408	17,500 tons/year	1.88	0.29	0	0	0	0	0	0	0	0
K410	3,650 tons/year	0.40	0.07	0	0	0	0	0	0	0	0
K412	19,857 tons/year	0.05	0.05	0	0	0	0	0	0	0	0
K417	19,857 tons/year	2.13	0.33	0	0	0	0	0	0	0	0
K418	3,327 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
F101	378,395 tons/year	0.93	0.29	0	0	0	0	0	0	0	0
F104	22,236 tons/year	1.79	0.13	0	0	0	0	0	0	0	0
F106	31,885 tons/year	0.04	0.02	0	0	0	0	0	0	0	0
F108	31,885 tons/year	0.24	0.01	0	0	0	0	0	0	0	0
F110	936 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
F112	35,073 tons/year	0.04	0.02	0	0	0	0	0	0	0	0
F114	35,073 tons/year	0.26	0.02	0	0	0	0	0	0	0	0
F116	1,030 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
F118	37,856 tons/year	0.33	0.04	0	0	0	0	0	0	0	0
F122	1,096 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
F125	117,421 tons/year	0.21	0.08	0	0	0	0	0	0	0	0
F131	117,421 tons/year	0.88	0.05	0	0	0	0	0	0	0	0

EU	Condition[1]	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_2	VOC	H_2S	Pb	HAP (HCl)	HAP (other)
F132	584 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
F133	100,000 tons/year	0.55	0.07	0	0	0	0	0	0	0	0
L101	458,644 tons/year	0.04	0.04	0	0	0	0	0	0	0	0
L105	13,759 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
L108	142,363 tons/year	1.07	0.06	0	0	0	0	0	0	0	0
L110	444,885 tons/year	0.08	0.04	0	0	0	0	0	0	0	0
L112	117,450 tons/year	0.14	0.05	0	0	0	0	0	0	0	0
L116	117,450 tons/year	0.07	0.03	0	0	0	0	0	0	0	0
L118	117,450 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
L201	730,500 tons/year	1.25	0.38	0	0	0	0	0	0	0	0
L206	1,095,750 tons/year	0.06	0.06	0	0	0	0	0	0	0	0
L208	121,750 tons/year	0.28	0.09	0	0	0	0	0	0	0	0
L209	121,750 tons/year	0.35	0.11	0	0	0	0	0	0	0	0
H101	71,550 tons/year	0.04	0.01	0	0	0	0	0	0	0	0
H102	71,550 tons/year	0.08	0.02	0	0	0	0	0	0	0	0
H105	93,015 tons/year	0.11	0.05	0.80	0.67	0.01	0.04	0	0	0	0.04
H108	93,909 tons/year	0.17	0.04	0	0	0	0	0	0	0	0
H109	894 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
H110	894 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
H116	93,015 tons/year	0.16	0.05	0	0	0	0	0	0	0	0
D101	466,816 tons/year	0.27	0.08	0	0	0	0	0	0	0	0
D104	466,816 tons/year	0.18	0.02	0	0	0	0	0	0	0	0
D104a	443,475 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
D104b	221,738 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
D104c	295,650 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
D105	231,341 tons/year	0.04	0.04	0	0	0	0	0	0	0	0
D106	231,341 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
D201	146,000 tons/year	1.10	0.06	0	0	0	0	0	0	0	0
D202	146,000 tons/year	0.12	0.06	0	0	0	0	0	0	0	0
D208	146,000 tons/year	0.09	0.03	0	0	0	0	0	0	0	0
D211	146,000 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
D212	146,000 tons/year	0.08	0.02	0	0	0	0	0	0	0	0
O101	300 tons/year	0.08	0.06	0	0	0	0	0	0	0	0
O107	50 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
O110	500 hours/year	0.17	0.17	2.34	0.50	0.01	0.19	0	0	0	0.01
O111	500 hours/year	0.06	0.06	0.83	0.15	0.01	0.03	0	0	0	0.01
O112	500 hours/year	0.01	0.01	0.05	0.04	0.01	0.01	0	0	0	0.01
S101	180,000 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
S102	180,000 tons/year	0.05	0.05	0	0	0	0	0	0	0	0

EU	Condition[1]	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_2	VOC	H_2S	Pb	HAP (HCl)	HAP (other)
LO101	66,409 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
LO104	132,818 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
LO106	66,409 tons/year	0.04	0.03	0	0	0	0	0	0	0	0
LO109	146,000 tons/year	0.04	0.03	0	0	0	0	0	0	0	0
LO112	93,015 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
LO114	132,818 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
LO117	132,818 tons/year	0.03	0.03	0	0	0	0	0	0	0	0
SP1	1,500,000 tons/year	0.05	0.02	0	0	0	0	0	0	0	0
SP3	750,000 tons/year	0.31	0.05	0	0	0	0	0	0	0	0
LD4	750,000 tons/year	0.03	0.02	0	0	0	0	0	0	0	0
TL201	750,000 tons/year	0.62	0.17	0	0	0	0	0	0	0	0
TL1	75,000 tons/year	0.04	0.01	0	0	0	0	0	0	0	0
L101a	10,438 tons/year	0.02	0.02	0	0	0	0	0	0	0	0
K104b	146.000 tons/year	0.08	0.02	0	0	0	0	0	0	0	0
PL101	146.000 tons/year	0.08	0.02	0	0	0	0	0	0	0	0
PL102	146.000 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
PL103	146.000 tons/year	0.08	0.02	0	0	0	0	0	0	0	0
PL104	146.000 tons/year	0.11	0.05	0	0	0	0	0	0	0	0
PL105	146.000 tons/year	0.16	0.05	0	0	0	0	0	0	0	0
PL106	0.59 tons/year	0.01	0.01	0	0	0	0	0	0	0	0
PL107 (a-c)	146,000 tons/year	2.29	2.29	0	0	0	0	0	0	0	0
PL107d	146,000 tons/year	0.08	0.02	0	0	0	0	0	0	0	0
VPW	514,075 VMT/year	38.47	4.50	0	0	0	0	0	0	0	0
A1	1,000,000 tons/year	0.31	0.25	0	0	0	0	0	0	0	0
A01	63.5 acres	21.27	3.21	0	0	0	0	0	0	0	0
T101	60,000 gallons/year	0	0	0	0	0	0.34	0	0	0	0.01

[1]The quantities in this column are not intended as enforceable permit limits unless stated otherwise in this permit.

Table 3-2: Baghouses and Bin Vents Emissions Limits (tons per year)

Baghouse & Bin Vent ID	$PM_{2.5}$[1]	PM_{10}
DC-01	25.88	25.88
DC-02	25.88	25.88
DC-03	36.56	36.56
DC-04	1.07	1.52
DC-05	1.07	1.52
DC-20	5.37	7.61
DC-30N	0.98	1.39
DC-37	0.22	0.31
DC-36	5.37	7.61
DC-109	4.78	6.77
DA-DC-507	0.57	0.81
D-DC-505	0.54	0.76

Baghouse & Bin Vent ID	$PM_{2.5}$[1]	PM_{10}
D-DC-520	1.61	2.28
D-DC-526	1.61	2.28
K4-DC-316	44.10	44.10
K4-DC-340	3.70	3.70
K4-DC-421	0.54	0.76
K4-DC-509	0.54	0.76
K4-DC-516	0.64	0.91
K4-DC-519	0.54	0.76
DC-8001	3.80	5.38
DC-8002	0.65	0.92
DC-8003	0.65	0.92
DC-8004	0.65	0.92
DC-5001	1.15	1.63
DC-5002	1.15	1.63
DC-5003	1.15	1.63
DC-5004	1.15	1.63
DC-5005	1.15	1.63
DC-5006	1.35	1.92
DC-5007	1.15	1.63
D-DC-4217	1.65	2.33
K2-DC-505N[2]	0.44	0.63
K2-DC-506S[2]	0.44	0.63
DC-CA-04	0.52	0.52
D-DC-50122	2.29	2.29

[1]$PM_{2.5}$ emissions are estimated to be 71% of PM_{10} concentration except DC-01, DC-02, DC-03, K4-DC-316 and K4-DC-340.
[2]K2-DC-505N and K2-DC-506S shall not operate simultaneously

Kilns

2. The permittee shall operate the rotary kilns such that the weighted average of PM emissions from all four rotary kilns, combined, shall not exceed 0.12 lb/tsf at all times during operation. The emission limits are delineated in Table 3-3 (EUs: K102, K202, K302, and K402). *[40 CFR Part 63.7090]*

Table 3-3: Combined Emission Limits for Kilns (particulate matter)

EU	Combined Stone Feed Rate (tsf)		MACT Combined Kiln Emissions Limit (lb/tsf)	Combined PTE Limit (tons/yr)
	tons/hr	tons/year		
K102, K202, K302, & K402	202.60	1,701,001	0.12	102.06

3. Actual emissions from Kiln 4 shall not exceed the PTE listed in Table 3-4. *[NSR – ATC/OP Modification 10, Table II-A-3 (5/22/06)]*

Table 3-4: Kiln 4 Limits

Averaging Period	PM_{10}	NO_x	CO	SO_2	VOC	HAP
Pounds/3-hour total				382.5		
Pounds/8 hours			5,400			
Pounds/day	250.7	16,000	16,200	3,060	80	21.37[1]
Tons/year	44.10	702.05	475.00	537.94	3.48	3.90[1]

[1]The values for HAP emissions were used for determination of MACT applicability and are provided here for information only.

4. Stack emissions from baghouse (K4-DC-316) shall not exceed 0.03 grams per dry standard cubic meter (0.0131 grains/dscf) for PM_{10}. *[NSR–ATC/OP Modification 7, Section III-B, Condition 4 (9/2/2004)]*

5. The permittee shall not allow visible stack emissions from Kiln 4 preheater system (K4-PH-302), discharged from the baghouse (K4-DC-316) to exceed 15 percent opacity as determined by the continuous opacity monitor (COMS). *[40 CFR Part 63.7090(b) and NSR–ATC/OP Modification 7, Section III-B, Condition 31 (9/2/2004), and Part 70 OP 07/14/2020]*

6. The permittee shall not allow visible stack emissions from Kiln 4 preheater system (K4-PH-302), discharged from the baghouse (K4-DC-316) to exceed 15 percent opacity during startup, based on startup period block average, as determined by the continuous opacity monitor (COMS). *[40 CFR Part 63.7090(c) and Table 2]*

7. The permittee shall not allow visible stack emissions from Kiln 4 preheater system (K4-PH-302), discharged from the baghouse (K4-DC-316) to exceed 15 percent opacity during shutdown, based on 6-minute average opacity for any 6-minute block period, as determined by the continuous opacity monitor (COMS). *[40 CFR Part 63.7090(c) and Table 2]*

8. The permittee shall not allow visible stack emissions discharged from each of the rotary kilns (K102, K202, and K302) to exceed 15 percent opacity as determined by the COMS. *[40 CFR Part 63.7090(b) and Part 70 OP 07/14/2020]*

9. The permittee shall not allow visible stack emissions discharged from each of the rotary kilns (K102, K202, and K302) to exceed 15 percent opacity during startup, based on startup period block average, as determined by the continuous opacity monitor (COMS). *[40 CFR Part 63.7090(c) and Table 2]*

10. The permittee shall not allow visible stack emissions discharged from each of the rotary kilns (K102, K202, and K302) to exceed 15 percent opacity during shutdown, based on 6-minute average opacity for any 6-minute block period, as determined by the continuous opacity monitor (COMS). *[40 CFR Part 63.7090(c) and Table 2]*

Engines

11. The permittee shall operate each diesel-powered generator in compliance with the emission standards set forth in 40 CFR 89.112 for new nonroad CI engines for the same model year and maximum engine power. The emission standards for each engine are provided in Table 3-5. These limitations must be maintained over the entire life of the engines (EUs: K402a, O110, and O112). *[40 CFR Part 60.4205 and 60.4206]*

Table 3-5: Emission Standards for Diesel Engines

EU	Maximum Engine Power	Manufacture Date	NMHC + NOx	CO	PM
O110	175 ≤hp ≤300	≥2006	3.0 g/hp-hr	2.6 g/hp-hr	0.15 g/hp-hr
O112	11 ≤hp ≤25	2023	5.6 g/hp-hr	4.9 g/hp-hr	0.3 g/hp-hr
K402a	75 ≤ hp < 175	2012 - 2014	2.8 g/hp-hr (NOx Alternate)[1]	3.7 g/hp-hr	0.015 g/hp-hr

[1]EPA decision issued 09/07/2007 excludes engines manufactured from 2011 – 2013, rated between 130kW – 560kW, from the Tier 4 NO_X requirement of 0.30 g/hp-hr (72 Federal Register 53118, 53122).

12. The permittee shall operate and maintain each diesel-powered generator (EUs: K102a, K202a, K302a, K402a, O110, and O112), fire pump (EU: O111), and sprinkler pump (QS101) in accordance with the manufacturer's O&M manual for emissions-related components. *[AQR 12.5.2.6(a)]*

Fugitive Dust

13. The permittee shall not exhibit fugitive emissions with an average opacity in excess of 10%, based on the average of five 6-minute averages, in accordance with the procedures specified in EPA Method 9, from limestone screens, conveyors, and transfer points that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008 (EUs: BC-103 of EU: P103, BN226 of EU: P112, and all equipment associated with EUs: P106, P107, P109, P112, P114, P115, R117, R120a, D101, D104, and D105). *[40 CFR Part 60.672, 40 CFR Part 60.675, and 40 CFR Part 60.11]*

14. The permittee shall not exhibit fugitive emissions with an average opacity in excess of 15%, based on the average of five 6-minute averages, in accordance with the procedures specified in EPA Method 9, from limestone crushers that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008 (EU: CC201 of EU: P109a). *[40 CFR Part 60.672, 40 CFR Part 60.675, and 40 CFR Part 60.11]*

15. The permittee shall not exhibit fugitive emissions with an average opacity in excess of 7%, based on the average of five 6-minute averages, in accordance with the procedures specified in EPA Method 9, from limestone screens, conveyors, and transfer points that commenced construction, modification, or reconstruction after April 22, 2008 (D-BC-214 of EU: 104b and D-BC-8301 of EU: 104c). *[40 CFR Part 60.672, 40 CFR Part 60.675, and 40 CFR Part 60.11; Part 70 OP 07/14/2020]*

Other

16. The permittee shall adhere to the opacity limitations for individual emission units as defined in Tables 4-1, 8-3, and 8-4. *[AQR 12.5.2.6(a)]*

4.0 COMPLIANCE DEMONSTRATION REQUIREMENTS

4.1 MONITORING

Visible Emissions [AQR 12.5.2.6(d) & AQR 12.5.2.8]

1. The Responsible Official shall sign and adhere to the *Visible Emissions Check Guidebook* and keep a copy of the signed guide on-site at all times.

2. The permittee shall conduct a weekly visual check for visible emissions from the facility while it is in operation.

3. The permittee shall conduct a daily visual emissions check of stack emissions from each baghouse and bin vent while in operation. A single visible emissions check may include multiple units if there is no obstruction to the line of sight.

4. The permittee shall conduct a visual emissions check at least quarterly on the diesel-powered emergency generator (EUs: O110 and O112) and fire pump (EU: O111) while in operation.

5. If no plume appears to exceed the opacity standard during the visible emissions check, the date, location, and results shall be recorded, along with the viewer's name.

6. If a plume appears to exceed the opacity standard, the permittee shall do one of the following:

    a. Immediately correct the perceived exceedance, then record the first and last name of the person who performed the emissions check, the date the check was performed, the unit(s) observed, and the results of the observation; or

    b. Call a certified Visible Emissions Evaluation (VEE) reader to perform a U.S. Environmental Protection Agency (EPA) Method 9 evaluation.

        i. For sources required to have a certified reader on-site, the reader shall start Method 9 observations within 15 minutes of the initial observation. For all other sources, the reader shall start Method 9 observations within 30 minutes of the initial observation.

        ii. If no opacity exceedance is observed, the certified VEE reader shall record the first and last name of the person who performed the VEE, the date the VEE was performed, the unit(s) evaluated, and the results. A Method 9 VEE form shall be completed for each emission unit that was initially perceived to have exceeded the opacity limit, and the record shall also indicate:

            (1) The cause of the perceived exceedance;

            (2) The color of the emissions; and

            (3) Whether the emissions were light or heavy.

iii. If an opacity exceedance is observed, the certified VEE reader shall take immediate action to correct the exceedance. The reader shall then record the first and last name of the person performing the VEE, the date the VEE was performed, the unit(s) evaluated, and the results. A Method 9 VEE form shall be completed for each reading identified, and the record shall also indicate:

(1) The cause of the exceedance;

(2) The color of the emissions;

(3) Whether the emissions were light or heavy;

(4) The duration of the emissions; and

(5) The corrective actions taken to resolve the exceedance.

7. The permittee shall monitor opacity from Process Stone Handling emission units (EUs: R108, R120, D104a, and D104c) in accordance with the following procedures: *[40 CFR Part 63.7121(e), Table 7, Item 1]*

a. Conduct a monthly one-minute visible emissions (VE) check of each affected source while the affected source is in operation.

b. If no VE are observed in six consecutive monthly checks, decrease the frequency of VE checking from monthly to semiannually; if VE are observed during any semiannual observations, resume VE observations on a monthly basis and maintain that schedule until no VE observations are observed in six consecutive monthly observations.

c. If no VE are observed during the semiannual observation, decrease the frequency of VE checking from monthly to annually; if VE are observed during any annual check, resume VE observations on a monthly basis and maintain that schedule until no VE observations are observed in six consecutive monthly observations.

d. If VE are observed during any VE observation, the permittee shall conduct a 6-minute EPA Reference Method 9 opacity test within one hour of any observation of VE, and the 6-minute opacity reading shall not exceed the opacity limits in Conditions 3.2.4 and 3.2.5.

8. Any scenario of visible emissions noncompliance can and may lead to enforcement action.

Drilling and Blasting [AQR 12.5.2.6(d) & AQR 12.5.2.8]

9. The permittee shall monitor the number of drilled holes and calculate them each month as a consecutive 12-month total (Q103).

10. The permittee shall monitor each area blasted in square feet (Q103).

11. The permittee shall monitor the number of blasts and calculate them each month as a consecutive 12-month total (Q103).

12. The permittee shall monitor the amount of ANFO, or other blasting materials, in tonnage and calculate, on a monthly basis, the usage as a consecutive 12-month total (Q103).

Baghouses [AQR 12.5.2.6(d) & AQR 12.5.2.8]

13. The permittee shall conduct daily monitoring of the pressure drop across each baghouse cell with the installation and operation of a pressure differential gauge (e.g. Magnehelic) per manufacturer's specifications (except DC-01, DC-02, DC-03, and K4-DC-316).

14. The permittee shall conduct the following monthly external inspections of each baghouse while it is running to ensure that equipment is maintained in good working order and operated according to manufacturer's specifications: *[NSR – ATC/OP Modification 10, Section III-B, Condition 8 (05/22/06)]*

    a. Verification of the pulse timing sequence;

    b. Verification that the cleaning system does not appear unusual, and that fans are running and do not exhibit unusual sounds or vibrations; and

    c. Verification that seams, connections, and housings are sealed and leak-free, including walls, hoppers, ducting, and piping.

15. If an inspection shows that maintenance is necessary, the permittee shall schedule and complete such maintenance within five working days. If the malfunction renders the baghouse ineffective in controlling particulate emissions, material processing shall stop until repairs to the baghouse are completed.

16. The permittee shall visually inspect each baghouse interior at least annually to determine the internal mechanical integrity of the unit and spot any defects. Defective compartments shall be sealed off and repairs completed within five working days. If the malfunction renders the baghouse ineffective in controlling particulate emissions, material processing shall stop until repairs to the baghouse are completed.

17. The permittee shall have a standard operating procedures (SOP) manual for baghouses. The procedures specified in the manual for maintenance shall, at a minimum, include a preventative maintenance schedule that is consistent with the baghouse manufacturer's instructions for routine and long-term maintenance. *[NSR – ATC/OP Modification 10, Section III-B, Condition 6 (05/22/06)]*

18. Within 60 days of issuance of this permit, the permittee shall submit an operations, maintenance, and monitoring (O&M) plan for each baghouse listed in Table 3-2 (except baghouses subject to 40 CFR Part 63, Subpart AAAAA) for Control Officer approval. The O&M plan shall include for each baghouse, at a minimum, the operating pressure differential range, the pulse timing sequence, and a schedule for installation of pressure gauges. If the most recent version of a baghouse O&M plan on file with DAQ has not changed since the prior submittal, the permittee is not required to resubmit the complete plan. Instead, the permittee shall submit a certification statement within 60 days of issuance of the permit stating that baghouse O&M plans have not been revised. *[AQR 12.5.2.6(d)(1)(C)]*

19. After completion of any performance tests conducted for one or more baghouses, the permittee may update the O&M plan to provide improved operational ranges for differential pressure. Any updates or amendments to the O&M plan must be submitted to the Control Officer for approval. Pending approval of the initial or amended plan, the permittee shall comply with the provisions of the submitted plan. *[AQR 12.5.2.6(d)(1)(C)]*

20. The permittee shall conduct a survey of visible emissions from all emission units in accordance with the following procedure: *[AQR 12.5.2.6(d)]*

    a. Within 90 days of issuance of this permit, the permittee shall submit a visual observation plan to be approved by the Control Officer. The observation plan shall identify a central lookout station or multiple observation points, as appropriate, from where emission units shall be monitored. (When multiple observation points are used, all the emission units associated with each observation point shall be specifically identified within the observation plan.) If the most recent version of the visual observation plan on file with DAQ has not changed since the prior submittal, the permittee is not required to resubmit the complete plan. Instead, the permittee shall submit a certification statement within 60 days of issuance of the permit stating that the visual observation plan has not been revised.

    b. Any changes to the observation plan originally approved by the Control Officer shall be made only with the prior approval of the Control Officer.

Bin Vents [AQR 12.5.2.6(d) & AQR 12.5.2.8]

21. The permittee shall visually inspect each bin vent at least monthly for air leaks. Defective components shall be repaired or replaced within five working days of the discovery of the malfunction. If the defective components cause the bin vents to be noncompliant in controlling particulate emissions, material processing shall stop until repairs to the bin vent are completed

22. The permittee shall have an SOP manual for all bin vents that shall be made available to the Control Officer upon request. The procedures specified in the manual for maintenance shall, at a minimum, include an inspection and preventative maintenance schedule that is consistent with the bin vent manufacturer's specifications, if available, for routine and long-term maintenance. All bin vents shall be operated and maintained in accordance with their SOP and good air pollution control practices. *[NSR – ATC/OP Modification 10, Section III-B, Condition 6 (05/22/06)]*

Kilns

23. For Kilns 1 through 4 (EUs: K102, K202, K302, and K402), the permittee shall inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is being operated in accordance with the procedures and requirements of the MACT OM&M plan required in Condition 4.1.24 of this permit. *[40 CFR Part 63.7113(f)]*

24. The permittee shall prepare and implement a written O&M plan for Kilns 1–4 (EUs: K102, K202, K302, and K402) and the processed stone handling facilities listed in Table 4-1 under "Kiln Screen Running" and "Dolomite Handling" as being subject to 40 CFR Part 63, Subpart AAAAA ("MACT OM&M Plan"). Any subsequent changes to the plan must be submitted to the Control Officer for approval. Pending approval of the initial or amended plan, the permittee shall comply with the provisions of the submitted plan. Each plan must contain the following information:

    a. Process and control device parameters to be monitored to determine compliance, along with established operating limits or ranges, as applicable, for each emission unit.

    b. A monitoring schedule for each emission unit.

    c. Procedures for the proper operation and maintenance of each emission unit and each air pollution control device used to meet the applicable emission limitations and operating limits in Tables 1 and 2 of 40 CFR Part 63, Subpart AAAAA.

    d. Procedures for the proper installation, operation, and maintenance of monitoring devices or systems used to determine compliance, including:

        i. Calibration and certification of accuracy of each monitoring device;

        ii. Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction systems;

        iii. Ongoing operation and maintenance procedures, in accordance with the general requirements of 40 CFR Part 63.8(c)(1), (3), and (4)(ii); and

        iv. Ongoing data quality assurance procedures, in accordance with the general requirements of 40 CFR Part 63.8(d).

    e. Procedures for monitoring process and control device parameters.

    f. Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the operating limits specified in Table 2 of 40 CFR Part 63, Subpart AAAAA, including:

        i. Procedures to determine and record the cause of a deviation or excursion and the time the deviation or excursion began and ended; and

        ii. Procedures for recording the corrective action taken, the time corrective action was initiated, and the time and date the corrective action was completed.

    g. A maintenance schedule for each emission unit and control device that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance. *[40 CFR Part 63.7100(d)]*

25. The permittee must develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR Part 63.6(e)(3). *[40 CFR Part 63.7100(e)]*

26. The permittee shall demonstrate continuous compliance with the PM emission standard of 0.12 lb/tsf weighted average for Kilns 1 through 4 as follows: *[40 CFR Part 63.7112(f)]*

    a. Emissions shall be calculated at least once each month using the following calculation: *[40 CFR Part 63.7090, 63.7112(e)-(g); Table 1 to Subpart AAAAA]*

    $E\ (lbs/tsf) = \Sigma\ E_iP_i/\Sigma\ P_i$

    where:

    E = Weighted average emission rate of particulate matter (PM) from all concurrently operating kilns expressed in units of lb/ton stone feed;

    E*i* = The most recent performance test for PM emissions from kiln *i* in units of lb/ton of stone feed;

    P_i = Stone feed rate to kiln *i* in units of tons/hour.

27. When solid fuel consisting of a blend of coal and coke is being burned in Kiln 1, Kiln 2, and/or Kiln 3, the permittee shall take a sample of approximately one pound of the blended fuel at least once every two hours each day from each kiln burning blended fuel. One-pound samples shall be composited into 12-pound daily samples for each kiln burning blended fuel. Approximately three to five pounds from each kiln's daily 12-pound composite sample shall be composited into a weekly sample for that kiln. The weekly samples for each kiln shall be analyzed within one week of collection for sulfur content using appropriate ASTM methods. The average of the previous calendar month of the suppliers' batch assay results for sulfur content of coal or coke may be used to determine sulfur content when only one of these fuels is being burned. *[NSR - ATC/OP Modification 10, Section III-E, Condition 6 (05/22/06)]*

28. The permittee shall continue to calibrate, maintain, operate, and certify a continuous opacity monitoring system (COMS) to monitor and record the opacity of a representative portion of the gases discharged into the atmosphere from Kiln 4, in accordance with the requirements of 40 CFR Part 60, Subpart A, and 40 CFR Part 60.343, when Kiln 4 is operating. The span of the COMS shall be set at 40% opacity. The COMS shall have an alarm set at 15% opacity, and shall measure and average opacity in 6-minute block increments starting at the beginning of each hour. The COMS and corresponding data acquisition system shall include an automated data acquisition and handling system. The COMS shall record hours of COMS operation and COMS downtime. *[NSR – ATC/OP Modification 10, Section III-G, Condition 1 (05/22/06); 40 CFR Part 60, Subpart A; and 40 CFR Part 60.343]*

29. The permittee shall maintain and adhere to the latest QAP for all COMS submitted to and approved by DAQ, which shall include auditing and reporting schedules, design specifications, and other quality assurance requirements for each COMS. *[AQR 12.5.2.6(d)]*

30. Any average opacity greater than 15% percent, as determined by the Kiln 4 COMS, may be considered an indication of a violation of the Kiln 4 opacity limits of this permit and may result in an enforcement action. For purposes of establishing whether or not the permittee has violated or is in violation of any such opacity standard, nothing herein shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether Kiln 4 would have been in compliance with such opacity standard if the applicable performance test had been performed. *[NSR – ATC/OP Modification 10, Section III-G, Condition 2 (05/22/06) and 40 CFR Part 60.342]*

31. If the COMS for Kiln 4 (EU: K402) is deemed to be malfunctioning or inoperable (including times when the COMS is taken offline for scheduled maintenance, calibration, etc.) while the kiln is operating, The permittee shall perform an EPA Method 9 Visible Emission Evaluation (VEE) by a certified VEE reader within three hours of discovery, unless normal operations are restored within the three hour period. The purpose of the Method 9 is to demonstrate compliance with Kiln 4 opacity limits in this permit. The VEE must be performed and documented for a minimum of three 6-minute periods. If a VEE cannot be conducted during daylight hours, then a VEE shall be completed by 8:00 a.m. immediately after the discovery, unless normal operations are restored prior to sunrise. In either instance, a VEE must be conducted every day thereafter, and any time Kiln 4 opacity appears to exceed 15%, until the COMS resumes normal operations. *[NSR – ATC/OP Modification 10, Section III-G, Condition 3 (05/22/06), Part 70 OP 07/14/2020, and 40 CFR Parts 60.340, 60.341, 60.342, 60.343, and 60.344]*

32. If the COMS for Kilns 1–3 (EUs: K102, K202, and K302) are deemed to be malfunctioning or inoperable (including times when the COMS is taken offline for scheduled maintenance, calibration, etc.) while the kiln is operating, the permittee shall perform an EPA Method 9 VEE by a certified VEE reader within three hours of discovery, unless normal operations are restored within the three hour period. The purpose of the Method 9 is to demonstrate compliance with the applicable opacity limits for Kilns 1–3 in this permit. The VEE must be performed and documented for a minimum of three 6-minute periods. If a VEE cannot be conducted during daylight hours, then a VEE shall be completed by 8:00 a.m. immediately after the discovery, unless normal operations are restored prior to sunrise. In either instance, a VEE must be conducted every day thereafter, and any time the opacity for each EU appears to exceed 15%, until the COMS resumes normal operations. *[Part 70 OP 07/14/2020 and AQR 12.5.2.6(d)(1)(B)]*

33. The permittee shall meet the following operations and maintenance, quality control, and data reduction requirements for the COMS for Kilns 1–4:

    a. Calibration Checks: The permittee shall check the zero (or low-level value between 0-20% of span value) and span (50-100% of span value) calibration drifts at least once daily in accordance with a written procedure prescribed by the manufacturer. *[40 CFR Part 63.8(c)(6)]*

    b. Zero and span drift adjustments: *[40 CFR Part 63.8(c)(6)]*

        i. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift exceeds two times the limits of the performance specifications in the relevant standard.

        ii. For systems using automatic zero adjustments, the optical and instrumental surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4% opacity.

        iii. The optical and instrumental surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except with systems using automatic zero adjustments.

c. System Checks: The permittee shall, as minimum procedures, apply a method for producing a simulated zero-opacity condition and an upscale (span) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. All procedures applied shall provide a system check of all analyzer internal optical surfaces and all electronic circuitry, including the lamp and photodetector assembly normally used in the measurement of opacity. *[40 CFR Part 63.8(c)(5) and 40 CFR Part 63.7113(g)(2)]*

d. Minimum Frequency of Operation: Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, the permittee shall operate the COMS continuously, and shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 10-second period and one cycle of data recording for each successive 6-minute period. *[40 CFR Part 63.8(c)(4)(i)]*

e. Data Reduction Procedures: *[40 CFR Part 63.8(g)]*

i. The permittee shall reduce all data from the COMS to 6-minute averages calculated from 36 or more data points equally spaced over each 6-minute period.

ii. The permittee shall not include data recorded during periods of unavoidable system breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero and span adjustments in the data averages computed under the previous paragraph.

34. To demonstrate continuous, direct compliance with the Kiln 4 emissions limitations for NO_X, CO, and SO_2, as specified in Table 3-4 of this permit, the permittee shall continue to calibrate, maintain, operate, and certify CEMS for NO_X, CO, SO_2, diluent gas, and stack exhaust gas on Kiln 4. The CEMS shall operate at all times Kiln 4 is in use except during malfunctions, maintenance, calibration, and repairs of the CEMS. The CEMS and corresponding data acquisition system shall include an automated data acquisition and handling system. All CEMS are subject to the provisions of 40 CFR Part 60, Subpart A, and 40 CFR Part 60, Appendices B and F, as applicable. The CEMS shall monitor and record at least the following data: *[NSR – ATC/OP Modification 10, Section III-G, Condition 4 (05/22/06); 40 CFR Part 60, Subpart A; and 40 CFR Part 60, Appendices B & F]*

a. Exhaust gas concentration of NO_X, SO_2, CO, and diluent O_2;

b. Exhaust gas flow rate;

c. Three-hour rolling averages for NO_X, SO_2, and CO concentrations;

d. Hourly and consecutive 12-month period accumulated mass emissions of NO_X, SO_2, and CO;

e. Hours of CEMS operation; and

f. Dates and hours of CEMS downtime.

35. Any emissions greater than the NO_X, SO_2, and CO emissions limits in Table 3-4, as determined by CEMS, may be considered a violation of the Kiln 4 emission limits of this permit and may result in enforcement action. For purposes of establishing whether or not the permittee has violated or is in violation of any such emissions standard during periods when CEMS is unavailable or not functioning properly, nothing herein shall preclude the use, including exclusive use, of any credible evidence or information relevant to whether a source would or would not have been in compliance with the applicable emission standard if the CEMS had been in operation and functioning properly. *[NSR – ATC/OP Modification 10, Section III-G, Condition 5 (05/22/06)]*

36. The permittee shall maintain and adhere to the latest QAP for all CEMS submitted to and approved by DAQ, which shall include auditing and reporting schedules, design specifications, and other quality assurance requirements for each CEMS. *[AQR 12.5.2.6(d)]*

37. For each semiannual period, the permittee shall submit an excess emissions report if the duration of excess emissions equals or exceeds 1% of the total source operating time, or if the duration of CEMS malfunction or downtime equals or exceeds 5% of the total source operating time. *[NSR – ATC/OP Modification 10, Section III-G, Condition 6 (05/22/06)]*

38. The permittee shall conform to the applicable provisions of 40 CFR Part 60 for required periodic audit procedures and QA/QC procedures for CEMS and COMS. *[NSR – ATC/OP Modification 10, Section III-G, Condition 7 (05/22/06)]*

39. The permittee shall conduct Relative Accuracy Test Audits (RATA) and other periodic checks of the NO_X, SO_2, CO, and O_2 CEMS at least annually, as required by 40 CFR Part 60. *[NSR – ATC/OP Modification 10, Section III-G, Condition 8 (05/22/06)]*

Engines

40. The permittee shall monitor the sulfur content and cetane index or aromatic content of the fuel burned in each generator by retaining a copy of vendor fuel specifications (EUs: K402a O110, and O112). *[40 CFR 60.4207(b)]*

41. The permittee shall monitor the operation of each diesel-powered nonemergency generator engine with a nonresettable hour meter (EUs: K102a, K202a, K302a, and K402a). *[AQR 12.5.2.6(d)]*

42. The permittee shall maintain a log of each rental/temporary engine operated on-site. Each log entry will include the engine rating (in horsepower), model year, tier, manufacturer, model number, serial number, date brought on-site, hours of operation, date taken off-site, date of maintenance, and description of any repairs (EU: O11). *[AQR 12.5.2.6(d)]*

43. The permittee shall operate each emergency generator (EUs: O110 and O112) and fire pump (EU: O111) with a nonresettable hour meter and monitor the duration of operation for testing, maintenance, and nonemergency operation, and separately for emergencies. The nature of the emergency leading to emergency operation shall be documented. *[AQR 12.5.2.6(d)]*

Ambient Air Monitoring

44. Ambient Air Monitoring: The permittee shall continue to conduct ambient air monitoring for PM_{10} and SO_2 in accordance with the following: *[AQR 12.5.2.6(d)]*

    a. The monitor shall be located at a location preapproved by the Control Officer.

    b. The sampling cycle for PM_{10} shall determine 24-hour PM_{10} concentrations, and shall be conducted on an every-six-day schedule.

    c. The sampling cycle for SO_2 shall determine successive nonoverlapping three-hour block averages of SO_2 concentrations, starting at midnight each calendar day.

    d. The daily average concentration for each day of the sampling quarter, as well as quality control, preventive maintenance, and repair procedures, shall be included in the quarterly reports submitted to the Control Officer within 30 days of the end of each calendar quarter.

    e. Failure to comply with at least one of the following is a violation of this permit condition:

        i. QA/QC requirements of either "Supplemental Interim Guidance for Quality Assessment of Continuous PM10 Analyzer" (EPA memorandum dated 11/3/1995) or the applicable provisions of 40 CFR Parts 50, 51, 52, and 53 and their associated appendices; or

        ii. Reporting requirements of either DAQ's guideline on ambient air monitoring or the applicable provisions of 40 CFR Parts 50, 51, 52, and 53 and their associated appendices.

    f. Ambient air monitoring shall be subject to review by the Control Officer. The Control Officer may review the air quality impact and the impacts predicted by dispersion modeling, and determine if ambient air monitoring is still required.

    g. The permittee shall report quality control, preventive maintenance, and repair procedures to the Control Officer as required by this permit.

Haul Roads

45. The permittee shall demonstrate compliance with silt loading limits on paved and unpaved roads and paved and unpaved parking lots by sampling and recording the results of at least one sample taken from each of these areas quarterly. Where more than one sample is taken from an area in a quarter, compliance with the applicable silt loading limit shall be based on the average of the measured samples. If twelve consecutive quarterly silt loading measurements for a given area are less than 50% of the applicable silt loading limit, the permittee may reduce the frequency of future measurements for that area to annually upon prior notice to, and concurrence from, the Control Officer. If any subsequent annual measurement is more than 50% of the applicable silt loading limit, the frequency of future measurements for that area shall revert to quarterly. Annual measurements may resume if 12 consecutive quarterly samples are less than 50% of the applicable silt loading limit. *[NSR ATC Section IV-C, Condition 2 (01/16/2014)]*

Gasoline Dispensing

46. As a Best Management Practice, the permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following (EU: T101): *[AQR 12.5.2.6(d)]*

    a. Minimize gasoline spills;

    b. Clean up spills as expeditiously as practicable;

    c. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; and

    d. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

General

47. The permittee shall monitor all processes for which an operational limit is established in Section 2.2 or a record is required to be kept in Section 4.3. *[Part 70 OP 07/14/2020]*

4.2 TESTING

1. At the Control Officer's request, the permittee shall test (or have tests performed) to determine emissions of air contaminants from any source whenever the Control Officer has reason to believe that an emission in excess of those allowed by the AQRs is occurring. The Control Officer may specify testing methods to be used in accordance with good professional practice. The Control Officer may observe the testing. All tests shall be conducted by reputable, qualified personnel. *[AQR 4.2]*

2. At the Control Officer's request, the permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants. *[AQR 4.2]*

3. The permittee shall submit to the Control Officer for approval a performance testing protocol that contains testing, reporting, and notification schedules, test protocols, and anticipated test dates no less than 45 days, but no more than 90 days, before the anticipated date of the performance test unless otherwise specified in this permit. *[AQR 12.5.2.8]*

4. The permittee shall submit to EPA for approval any alternative test methods EPA has not already approved to demonstrate compliance with a requirement under 40 CFR Part 60. *[40 CFR Part 60.8(b)]*

5. Performance testing is subject to 40 CFR Part 60.8 (as amended), Subpart A, and *Clark County Department of Air Quality Guideline for Source Testing (9/19/2019)*. Performance testing shall be the instrument for determining subsequent compliance with the emission limitations set forth in this permit. *[AQR 12.5.2.8(a)]*

6. The permittee shall conduct performance tests on all emission units listed in Table 4-1. Performance tests shall be conducted initially and at intervals specified in Table 4-1. *[NSR – ATC/OP Modification 10, Revision 0, Section III-B, Condition 31 (05/22/06); 40 CFR Part 60, Subparts OOO, HH, and Y; 40 CFR Part 63, Subpart AAAAA; and Part 70 OP 07/14/2020]*

Table 4-1: Performance Testing Requirements

EU	Description	Compliance Standard	NSPS/MACT Applicability	Applicable Test	Frequency
Limestone Processing					
P103	HO-101/PF101	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
	BC-103				
	GR-101				
P103a	JC-102	Opacity ≤ 15%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
P106	VS-202	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
	BC-104				
P107	VS-203	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
P109	BC-204	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
	BC-225				Annually
P109a	CC-201	Opacity ≤ 15%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
P112	BN-226	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
P114	BC-205	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
	BC-206				
	BC-207				
P115	BC-235	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
	BC-237				
	BC-236				
Kiln Screen Running					
R108	BC-15, 16	Opacity ≤ 10%	40 CFR Part 63 Subpart AAAAA	Method 9	5 Years
	BE-01, 02				
	BC-17				
	BC-18				
	SB-01				
	SB-02				
	SB-03				
R117	BC-217	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
	BC-224				
	VS-229				

EU	Description	Compliance Standard	NSPS/MACT Applicability	Applicable Test	Frequency
R120	SB-04	Opacity ≤ 10%	40 CFR Part 63 Subpart AAAAA	Method 9	5 Years
	BC-230				
R120a	BC-231	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	Annually
Kilns					
K102	KN-01	Opacity ≤ 15% each kiln; PM: 0.12 lbs/ton of stone feed weighted average for all kilns (0.60 lbs/stone feed is applicable to EU: K402 only)	40 CFR Part 63 Subpart AAAAA	Method 9 and Method 5D	5 Years
K202	KN-02				
K302	KN-03				
K402	K4-KN-305		40 CFR Part 63 Subpart AAAAA and 40 CFR 60 Subpart HH		
Solid Fuel Handling					
F101	HO-40, 41	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	BC-40				
	BC-44				
	Loading				
	Unloading				
F104	CR-40 (C)	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	SC-44				
F106	BN-41	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	BC-41				
F108	CM-41 (C)	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
F110	SC-41	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	Reject Bin 1				
	Loadout				
F112	BN-42	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	BC-42				
F114	CM-42 (C)	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
F116	SC-42	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	Reject Bin 2				
	Load Out				
F118	BN-43	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	BC-43				
	CM-43 (C)				

EU	Description	Compliance Standard	NSPS/MACT Applicability	Applicable Test	Frequency
F122	SC-43	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	Reject Bin 3				
	Load Out				
F125	K4-SC-402	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	K4-BN-404				
	K4-BN-406				
	K4-WF-408				
	K4-WF-409				
	K4-BC-410				
F131	K4-CM-413 (C)	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
F132	K4-SC-419	Opacity ≤ 20%	40 CFR Part 60 Subpart Y	Method 9	5 Years
	Reject Bin 4				
	Load Out				
Dolomite Handling					
D101	D-BN-201	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
	D-BC-202				
D104	D-BC-207	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
	D-VS-208				
D104a	D-BC-213	Opacity ≤ 10%	40 CFR Part 63 Subpart AAAAA	Method 9	5 Years
D104b	D-BC-214	Opacity ≤ 7%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
D104c	D-BC-8301	Opacity ≤ 7% Opacity ≤ 10%	40 CFR Part 60 Subpart OOO, 40 CFR Part 63 Subpart AAAAA	Method 9	5 Years
D105	D-BC-209	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	Annually
	D-BE-210				5 years
	D-BN-211				5 years
D106	D-BC-209E	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	5 Years
Portable Screening Plant					
SP3	Screen SP-3	Opacity ≤ 10%	40 CFR Part 60 Subpart OOO	Method 9	Annually
	Stacker Belt				5 years
	Stacker Belt				5 years
	Stacker Belt				5 years

7. The permittee shall conduct testing on baghouses DC-30N, DC-8001, DC-5006, D-DC-4217, and at least one from each group of identical baghouses (DC-8002, DC-8003, and DC-8004 in one group; DC-5001–DC-5005 and DC-5007 in the other) to demonstrate compliance with the PM_{10} emissions limits identified in Table 3-2. A different baghouse shall be tested with each testing cycle until every baghouse from each category has been tested. Subsequent performance tests shall be conducted every five years. The permittee shall conduct initial performance testing on the baghouse within 180 days of commencement of unit operation. The differential pressure gauge(s) shall be installed, calibrated, and operational prior to conducting the performance test. *[AQR 12.5.2.8(a)]*

8. The permittee shall retest kilns that have had tests completed and demonstrated compliance with the MACT PM emission standard of 0.12 lbs/tsf. Retests shall be conducted within five years following each subsequent test. *[40 CFR Part 63.7111]*

9. If any rotary kiln fails to demonstrate the PM emissions standard of 0.12 lbs/tsf during a performance test, the permittee shall conduct subsequent performance testing on an annual basis. *[AQR 12.5.2. 8(a) and AQR 4.5]*

    a. If the kiln demonstrates compliance with the standard for two consecutive years, the testing frequency may be increased to two years.

    b. If the kiln demonstrates compliance with the standard during two consecutive biannual tests, the testing frequency may be returned to five years.

10. The permittee shall retest emission units that have had initial performance tests completed. Retests shall be conducted every five years to verify ongoing compliance with applicable emission limits. Repeat performance testing for any given emission unit for opacity may be a minimum of six minutes in duration and conducted in accordance with EPA Reference Method 9 in 40 CFR Part 60, Appendix A-4. *[AQR 12.5.2.8(a) and NSR – ATC/OP Modification 10, Condition III-F-2 (05/22/2006)]*

11. The permittee shall test emission units identified as BC-225 (EU: P109), BC-231 (EU: R120a), D-BC-209 (EU: D105), and Screen SP-3 (EU: SP3) annually. Repeat performance testing for any given emission unit for opacity may be a minimum of six minutes in duration and conducted in accordance with EPA Reference Method 9 in 40 CFR Part 60, Appendix A-4. *[AQR 12.5.2.8(a))]*

12. Visible emissions evaluations for emission units whose performance test consists of or includes opacity observations shall be conducted by a person or persons certified in EPA Method 9 at the time of the VEEs. *[NSR – ATC/OP Modification 10, Section III-F, Condition 3 (05/22/06)]*

13. The permittee of a new, modified, or reconstructed emission unit for which initial performance testing is required by Section III.E of this permit shall conduct an initial performance test within 60 days of achieving the maximum production rate at which the emission unit will be operated, but not later than 180 days after initial startup of the unit. The permittee shall demonstrate the emission unit's compliance with the applicable emission limitations established in the permit. *[40 CFR Part 60.8]*

14. The permittee shall submit performance and/or RATA test protocols, which include proposed test methods, anticipated test dates, reporting, and notification schedules, to the Control Officer for approval at least 45 days, but not more than 90 days, prior to the anticipated date of the performance test, except for Kilns 1–4 (EUs: K102, K202, K302, and K402) and the processed stone handling facilities listed in Table III-E-1 under "Kiln Screen Running" and "Dolomite Handling" as being subject to 40 CFR Part 63, Subpart AAAAA. *[NSR – ATC/OP Modification 10, Section III-F, Condition 4 (05/22/06)]*

15. The permittee shall submit protocols for Kilns 1–4 (EUs: K102, K202, K302 and K402) and the processed stone handling facilities listed in Table III-E-1 under "Kiln Screen Running" and "Dolomite Handling" as being subject to 40 CFR Part 63, Subpart AAAAA, at least 60 days before the test is scheduled to begin. Each performance test must be conducted under the conditions specified in Table 4 of Subpart AAAAA. Except for opacity and VE observations, three separate test runs must be conducted for each performance test, and each test run must last at least 1 hour. *[AQR 13; 40 CFR Parts 63.7(b), 63.9(g), and 63.7112]*

16. The Control Officer will consider approving the permittee's request for alternative performance test methods if proposed in writing in the performance test protocols. *[AQR 12.5.2.8(a)]*

17. The permittee shall submit a report describing the results of the performance test to the Control Officer and the EPA within 60 days of the end of the performance test. *[40 CFR Part 60, Subpart Y and 40 CFR Part 63, Subpart AAAAA]*

18. The permittee shall submit performance test results documented in complete test reports that contain the following information for emission units subject to 40 CFR Part 63, Subpart AAAAA: (EUs: K102, K202, K302 and K402):

    a. Brief description of the process and the air pollution control system;

    b. Sampling location description(s);

    c. Description of sampling and analytical procedures and any modifications to standard procedures;

    d. Test results, including opacity;

    e. Quality assurance procedures and results;

    f. Records of operating conditions during the test, preparation of standards, and calibration procedures, as outlined in the test protocol;

    g. Raw data sheets for field sampling and field and laboratory analyses;

    h. Documentation of calculations;

    i. All data recorded and used to establish operating limits; and

    j. Any other information required by the test method. [40 CFR Part 63.7112(h)]

4.3 RECORDKEEPING

1. The permittee shall maintain records on site that require semiannual reporting and include, at a minimum: *[NSR – ATC/OP Modification 10, Revision 0, Section III-H, Condition 7 (05/22/06), 40 CFR Part 63, Subpart AAAAA, Part 70 OP 07/14/2020, AQR 12.5.2.6(d) and AQR 12.5.2.8]*

Opacity

a. Dates and times when visible emissions checks and observations are made, and the corrective steps taken to bring opacity into compliance.

Drilling, Blasting, and Mining

b. Monthly, consecutive 12-month total amount of materials mined (EU: Q101);

c. Logs of recorded current and predicted weather, as required for blasting in Section 2.2 of this permit, on days when blasting occurs (EU: 103);

d. Monthly, consecutive 12-month total number of drilled holes (EU: Q103);

e. Monthly, consecutive 12-month total usage of ANFO, or other blasting materials (EU: Q103);

f. Monthly, consecutive 12-month total number of detonated blasts (EU: Q103);

Kilns

g. Average daily throughput for each Kiln (EUs: K102, K202, K302, and 402);

h. Daily operating hours for Kiln 4 (EU: 402);

i. Average daily consumption of coal and coke in each kiln;

j. The average daily, and each monthly consecutive 12-month consumption of natural gas in each kiln;

k. Monthly calculation of PM emissions from rotary kilns to demonstrate compliance with Section 4.1.27 of this permit;

Hydrate

l. The average daily, and each monthly consecutive 12-month consumption of natural gas in the atmospheric hydrator baghouse burner (EU: H105);

m. Average daily, and each monthly consecutive 12-month throughput for the hydrate system;

Portable Screening Plant

n. Average daily, and each monthly consecutive 12-month throughput for the portable screening plant (EUs: SP1, SP3, and LD4);

Engines

o. Log of rental/temporary engines (EU: O110);

p. Date and duration of operation of each diesel-powered emergency generator (EUs: O110 and O112) and fire pump (EU: O111) for testing, maintenance, and nonemergency use;

q. Date and duration of operation of each emergency generator (EUs: O110 and O112) and fire pump (EU: O111) for emergency use, including documentation justifying use during the emergency;

r. Monthly, consecutive 12-month total hours of operation of the nonemergency diesel-powered generators (EUs: K102a, K202a, K302a, K402a, and QS101);

s. Records of location changes for nonroad engines, if applicable;

Gasoline Dispensing

t. Monthly, consecutive 12-month throughput of gasoline (EU: T101);

u. Date of gasoline deliveries (EU: T101);

Haul Roads/Stockpiles

v. Monthly, consecutive 12-month total VMT on paved and unpaved haul roads (EU: VPW);

w. Total stockpile area (EU: A01);

Ambient Air Monitoring

x. Results of ambient air monitoring;

y. QA/QC requirements for on-site ambient air quality monitoring;

COMS/CEMS

z. Times and duration of CEMS downtime or malfunction time on Kiln 4;

aa. Times and duration of periods of excess emissions, as determined by CEMS (reported as required by Section 4.4 of this permit);

bb. Nature and probable cause of any CEMS downtime and corrective actions taken;

cc. The magnitude and duration of excess emissions, notifications, monitoring system performance, malfunctions, corrective actions taken, and other data required by 40 CFR Part 60 and the CEMS Quality Assurance Plan (reported as required by Section 4.4 of this permit); and

dd. CEMS audit results or accuracy checks, as required by 40 CFR Part 60 and the CEMS Quality Assurance Plan.

ee. Records of COMS data, including QA/QC results;

ff. Times and duration of COMS downtime;

gg. Nature and probable cause of any COMS downtime and corrective actions taken;

Performance Testing

hh. Performance test results (reported as required in Section 4.2 of this permit);

Other

ii. Monthly calculation of each consecutive 12-month total of natural gas used by the Apex facility;

2. The permittee shall maintain records on-site that include, at a minimum: *[NSR – ATC/OP Modification 10, Revision 0, Section III-H, Condition 7 (05/22/06) and 40 CFR Part 63, Subpart AAAAA]*

a. Determinations of sulfur content of coal and coke for Kilns 1, 2, and 3, based on fuel analysis and supplier's data;

b. Records of the time, date, sample amount, and kiln number of the blended fuel samples required in Section III-F-2.a;

c. Determinations of sulfur contents of natural gas, based on supplier's data;

d. Sulfur content and cetane index or aromatic content of diesel fuel used to power the emergency generator (EU: K402a) and fire pump (EU: O111) as certified by the supplier;

e. Increases in the total acreage of active and inactive open storage areas (EU: A01);

f. Lengths of unpaved on-site haul roads (EU: VPW);

g. Lengths of paved on-site haul roads (EU: VPW);

h. Records of dust control measures applied to paved surfaces areas within the plant, paved haul roads, unpaved haul roads, unpaved parking lots, and vacant areas;

i. Results of the quarterly silt loading sampling for paved roads, unpaved roads, and unpaved parking lots;

j. Inspection report for each baghouse and bin vent;

k. Detailed records of VMT on paved and unpaved haul roads that support the combined total VMT in Condition III-F-1.q (EU: VPW);

l. Results of baghouse and bin vent inspections for visible emissions and baghouse exteriors;

m. Results of monthly baghouse and bin vent inspections for baghouse mechanical performance;

n. SOP for baghouse and bin vent preventative maintenance;

o. Records of water spray system inspections;

p. Records that demonstrate training within the past 24 months of on-site personnel in EPA Method 9;

q. Results of any performance tests, COMS performance evaluations, and opacity and VE observations conducted within the previous five years, or whenever the last such tests, evaluations, or observations were conducted *[40 CFR Part 63.7132(a)(3)];*

r. Emergency plan in the event of an air quality emergency, as required by AQR 70;

s. Copy of each notification and report that was submitted as required by this section, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirements in 40 CFR Part 63.10(b)(2)(xiv) *[40 CFR Part 63.7132(a)(1)]*;

t. Records of all COMS data, including records of installation, maintenance, and calibration *[40 CFR Part 63.7132(c) Table 5, Item 4];*

u. Records related to startup, shutdown, and malfunction as specified in 40 CFR 63.7132(a)(2)(i) and (ii) *[40 CFR Part 63.7132(a)(2)]*;

v. Records of performance tests, performance evaluations, and opacity and VE observations, as required by 40 CFR Part 63.10(b)(2)(viii) *[40 CFR Part 63.713(a)(3)]*;

w. Records that document the basis for initial 40 CFR Part 63, Subpart AAAAA applicability determination, as required under 40 CFR Part 63.7081 *[40 CFR Part 63.7132(d)]*; and

x. Results of annual air pollution control device inspections for compliance with the MACT OM&M plan. *[40 CFR Part 63.7113(f)]*

3. For all inspections, visible emission checks, and testing required under the monitoring section of this permit, logs, reports, and records shall include at least the date and time, the name of the person performing the action, the results or findings, and the type of corrective action taken (if required). *[AQR 12.5.2.6(d)(2)]*

4. Records and data required by this OP to be maintained by the permittee maybe audited at any time by a third party selected by the Control Officer. *[NSR – ATC/OP Modification 10, Section III-E, Condition 1 (05/22/06) and AQR 4.1]*

5. At a minimum, the permittee shall create and maintain the records identified in this section, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation. *[AQR 12.5.2.6(d) and AQR 12.5.2.8]*

6. All records and logs, or a copy thereof, shall be kept on-site for a minimum of five years from the date the measurement was taken or data was entered. *[NSR – ATC/OP Modification 10, Section III-H, Conditions 1 & 2 (05/22/06), 40 CFR Part 63.7133(a) & (b), AQR 12.5.2.6(d) and AQR 12.5.2.8]*

7. The Control Officer reserves the right to require additional records to verify compliance with this permit. *[NSR – ATC/OP Modification 10, Section III-H, Condition 3 (05/22/06)]*

4.4 REPORTING AND NOTIFICATIONS

1. The permittee shall certify compliance with the terms and conditions contained in this Part 70 OP, including emission limitations, standards, work practices, and the means for monitoring such compliance. *[AQR 12.5.2.8(e)]*

2. The permittee shall submit compliance certifications annually in writing to the Control Officer (4701 W. Russell Road, Suite 200, Las Vegas, NV 89118) and the Region 9 Administrator (Director, Air and Radiation Divisions, 75 Hawthorne St., San Francisco, CA 94105). A compliance certification for each calendar year will be due on January 30 of the following year, and shall include the following: *[AQR 12.5.2.8(e)]*

    a. The identification of each term or condition of the permit that is the basis of the certification;

    b. The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period. These methods and means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements described in 40 CFR Part 70.6(a)(3). If necessary, the permittee shall also identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the Clean Air Act, which prohibits knowingly making a false certification or omitting material information; and

    c. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the methods or means designated in (b) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify, as possible exceptions to compliance, any periods during which compliance was required and in which an excursion or exceedance, as defined under 40 CFR Part 64, occurred.

3. The permittee shall report to the Control Officer any startup, shutdown, malfunction, emergency, or deviation that causes emissions of regulated air pollutants in excess of any limits set by regulations or this permit. The report shall be in two parts, as specified below: *[AQR 12.5.2.6(d)(4)(B); AQR 25.6.1]*

    a. Within 24 hours of the time the permittee learns of the excess emissions, the permittee shall notify DAQ by phone at (702) 455-5942, by fax at (702) 383-9994, or by email at airquality@clarkcountynv.gov.

    b. Within 72 hours of the notification required by paragraph (a) above, the permittee shall submit a detailed written report to DAQ containing the information required by AQR 25.6.3.

4. With the semiannual monitoring report, the permittee shall report to the Control Officer all deviations from permit conditions that do not result in excess emissions, including those attributable to malfunction, startup, or shutdown. Reports shall identify the probable cause of each deviation and any corrective actions or preventative measures taken. *[AQR 12.5.2.6(d)(4)(B)]*

5. Stationary sources that emit 25 tons or more of NO_x and/or emit 25 tons or more of VOCs from their emission units, insignificant activities, and exempt activities during a calendar year shall submit an annual emissions statement for both pollutants. Emissions statements must include actual annual NO_x and VOC emissions from all activities, including emission units, insignificant activities, and exempt activities. Emissions statements are separate from, and in addition to, the calculated annual emissions reported each year for all regulated air pollutants (i.e., the annual emissions inventory report). *[AQR 12.9.1]*

6. The owner or operator of any source required to obtain a permit under AQR 12 shall report to the Control Officer emissions in excess of an applicable requirement or emission limit that pose a potential imminent and substantial danger to public health and safety or the environment as soon as possible, but no later than 12 hours after the deviation is discovered, and submit a written report within two days of the occurrence. *[AQR 25.6.2]*

7. The permittee shall submit all compliance certifications to the U.S. Environmental Protection Agency (EPA) and to the Control Officer. *[AQR 12.5.2.8(e)(4)]*

8. Any application form, report, or compliance certification submitted to the Control Officer pursuant to the permit or the AQRs, shall contain a certification by a Responsible Official, with an original signature, of truth, accuracy, and completeness. This certification, and any other required under AQR 12.5, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *[AQR 12.5.2.6(l)]*

9. The permittee shall furnish to the Control Officer, in writing and within a reasonable time, any information that the Control Officer may request to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Control Officer copies of records that the permit requires keeping. The permittee may furnish records deemed confidential directly to the Administrator, along with a claim of confidentiality. *[AQR 12.5.2.6(g)(5)]*

10. At the Control Officer's request, the permittee shall provide any information or analyses that will disclose the nature, extent, quantity, or degree of air contaminants that are or may be discharged by the source, and the type or nature of control equipment in use. The Control Officer may require such disclosures be certified by a professional engineer registered in the state. In addition to this report, the Control Officer may designate an authorized agent to make an independent study and report on the nature, extent, quantity, or degree of any air contaminants that are or may be discharged from the source. An agent so designated may examine any article, machine, equipment, or other contrivance necessary to make the inspection and report. *[AQR 4.1]*

11. The permittee shall submit annual emissions inventory reports based on the following: *[AQR 18.6.1 and AQR 12.5.2.4]*

    a. The annual emissions inventory must be submitted to DAQ by March 31 of each calendar year (if March 31 falls on a Nevada or federal holiday, or on any day the office is not normally open for business, the submittal shall be due on the next regularly scheduled business day);

b. The calculated actual annual emissions from each emission unit shall be reported even if there was no activity, along with the total calculated actual annual emissions for the source based on the emissions calculation methodology used to establish the potential to emit (PTE) in the permit or an equivalent method approved by the Control Officer prior to submittal; and

c. As the first page of text, a signed certification containing the sentence: "I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document are true, accurate, and complete." This statement shall be signed and dated by a Responsible Official of the company (a sample form is available from DAQ).

12. All report submissions shall be addressed to the attention of the Control Officer. *[AQR 12.5.2.6(d)]*

13. All reports shall contain the following: *[AQR 12.5.2.4]*

    a. A certification statement on the first page, i.e., "I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document are true, accurate and complete"; and

    b. A certification signature from a responsible official of the company and a date certification.

14. The permittee shall submit all of the notifications in 40 CFR Parts 63.6(h)(4) & (5), 63.7(b) & (c), 63.8(e), 63.8f(4), & 63.8f(6), and 63.9(a)–(j) that apply. *[40 CFR Part 63.7130]*

15. The permittee shall submit semiannual monitoring reports to the Control Officer. *[AQR 12.5.2.6(d)(4)(A)]*

16. The following requirements apply to semiannual reports: *[AQR 12.5.2.6(d)(4)(A)]*

    a. The report shall include the records specified in Section 4.3.1 of this permit;

    b. The report shall be based on a calendar semiannual period, which includes partial reporting periods.;

    c. The report shall be received by DAQ within 30 calendar days after the semiannual period.

17. Regardless of the date of issuance of this OP, the permittee shall comply with the schedule for report submissions outlined in Table 4-2.

Table 4-2: Required Submission Dates for Various Reports

Required Report	Applicable Period	Due Date
Semiannual report for 1st six-month period	January, February, March, April, May, June	July 30 each year[1]
Semiannual report for 2nd six-month period; any additional annual records required	July, August, September, October, November, December	January 30 each year[1]
Annual Compliance Certification	Calendar year	January 30 each year[1]
Annual Emissions Inventory Report	Calendar year	March 31 each year[1]

Required Report	Applicable Period	Due Date
Annual Emissions Statement[2]	Calendar year	March 31 each year[1]
Notification of Malfunctions, Startup, Shutdowns, or Deviations with Excess Emission	As required	Within 24 hours of the permittee learns of the event
Excess Emission Report	As required	Within 72 hours of Excess Emission Notification
Excess Emissions that Pose a Potential Imminent and Substantial Danger	As required	Within 12 hours of when permittee learns of event
Report of Malfunctions, Startup, Shutdowns, or Deviations with Excess Emission	As required	Within 72 hours of the notification
Deviation Report without Excess Emissions	As required	Along with semiannual reports[1]
Performance Testing Protocol	As required	No less than 45 days, but no more than 90 days, before the anticipated test date[1]
Performance Testing	As required	Within 60 days of end of test[1]
RATA Protocol	As required	No less than 45 days, but no more than 90 days, before the anticipated test date[1]
RATA	As required	Within 60 days of end of test[1]
Production Report	Monthly	Within 30 days of reporting period end[1]

[1]If the due date falls on a federal or Nevada holiday, or on any day the office is not normally open for business, the submittal is due on the next regularly scheduled business day.
[2] Required only for stationary sources that emit 25 tons or more of nitrogen oxide (NO_X) and/or emit 25 tons or more of volatile organic compounds (VOC) during a calendar year.

18. The permittee shall, in addition to the annual compliance certification required in this section, submit semiannual compliance certification reports to the EPA Administrator and to the Control Officer detailing compliance status with 40 CFR Part 63, Subpart AAAAA requirements by January 31 for the reporting period July 1–December 31, and by July 31 for the reporting period January 1–June 30, of each year. *[40 CFR Part 63.7131]*

19. The permittee shall include the following information with the semiannual compliance certification: *[40 CFR Parts 63.7131(c), 63.7131(d), 63.7131(e)]*

    a. Company name and address.

    b. Statement by the responsible official with that official's name, title, and signature certifying the truth, accuracy, and completeness of the content of the report.

    c. Date of the report, and beginning and ending dates of the reporting period.

    d. If the facility had a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with the SSMP, the compliance report shall include the information in 40 CFR Part 63.10(d)(5)(i).

e. If there were no deviations from any emission limitations (i.e., emission limit, operating limit, opacity limit, and VE limit) that apply to the facility, the compliance report shall include a statement that there were no deviations from the emission limitations during the reporting period.

f. If there were no periods during which the continuous monitoring systems (CMS) were out of control, as specified in 40 CFR Part 63.8(c)(7), a statement that there were no periods during which the CMS were out of control during the reporting period. *[40 CFR Part 63.7131(a), Table 7, Item 2]*

g. If there was a deviation from an emission limitation at an affected source where the permittee is not using a CMS to comply with the emission limitations, the compliance report shall contain the following information: *[40 CFR Part 63.7131(d)]*

   i. The total operating time of each emission unit during the reporting period.

   ii. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

h. If there was a deviation from an emission limitation at an affected source where the permittee is using a CMS to comply with the emission limitations, the compliance report shall contain the following information: *[40 CFR Part 63.7131(e)]*

   i. The date and time that each malfunction started and stopped.

   ii. The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

   iii. The date, time and duration that each CMS was out of control, including the information in 40 CFR Part 63.8(c)(8).

   iv. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

   v. A summary of the total duration of the deviations during the reporting period and the total duration as a percent of the total affected source operating time during that reporting period.

   vi. A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

   vii. A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total emission unit operating time during that reporting period.

   viii. A brief description of the process units.

   ix. A brief description of the CMS.

   x. The date of the latest CMS certification or audit.

   xi. A description of any changes in CMS, processes, or controls since the last reporting period.

20. The Control Officer reserves the right to require additional reports and reporting to verify compliance with permit conditions, permit requirements, and requirements of applicable federal regulations. *[NSR – ATC/OP Modification 10, Section III-I, Condition 10 (05/22/06) and AQR 4.1]*

21. The permittee shall submit monthly production reports to the Control Officer no later than the 30th day of the month following the reporting period. *[APCHB Order on Appeal of Part 70 OP (10/15/2012)]*

4.5 MITIGATION

The source has no federal offset requirements. *[AQR 12.7]*

5.0 PERMIT SHIELD

Permit Shield

1. The source has requested a permit shield for applicable regulations in the regulations identified in Table 5-1. *[AQR 12.5.2.9]*

Table 5-1: Applicable Requirements Related to Permit Shield

Citation	Title
40 CFR Part 60, Subpart Y	"Standards of Performance for Coal Preparation and Processing Plants"
40 CFR Part 60, Subpart HH	"Standards of Performance for Lime Manufacturing Plants"
40 CFR Part 60, Subpart OOO	"Standards of Performance for Nonmetallic Mineral Processing Plants"
40 CFR Part 60, Subpart IIII	"Standards of Performance for Stationary Compression Ignition Internal Combustion Engines"
40 CFR Part 63, Subpart ZZZZ	"National Emission Standards for Stationary Reciprocating Internal Combustion Engines"
40 CFR Part 63, Subpart AAAAA	"National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants"

2. Compliance with the terms contained in this permit shall be deemed compliance with the applicable requirements of Table 5-2 in effect on the date of permit issuance. *[AQR 12.5.2.9]*

Table 5-2: Streamlined Requirements Related to Permit Shield

EU	Regulation (40 CFR)	Regulatory Standard	Permit Limit	Value Comparison (in Units of the Permit Limit)			Averaging Period Comparison			Streamlining Statement for Permit Shield Purposes
				Standard Value	Permit Limit Value	Is Permit Limit Equal or More Stringent?	Standard Averaging Period	Permit Limit Averaging Period	Is Permit Limit Equal or More Stringent?	
F101, F104, F106, F108, F110, F112, F114, F116, F118, F122, F125, F131, F132	60.254 (Y)	(Opacity) ≤ 20%	≤ 20%	≤ 20%	≤ 20%	Yes	1 Hour (Ten 6 minute averages)	1 Hour (Ten 6 minute averages)	Yes	The permit limit is equally as stringent as the standard

EU	Regulation (40 CFR)	Regulatory Standard	Permit Limit	Value Comparison (in Units of the Permit Limit)			Averaging Period Comparison			Streamlining Statement for Permit Shield Purposes
				Standard Value	Permit Limit Value	Is Permit Limit Equal or More Stringent?	Standard Averaging Period	Permit Limit Averaging Period	Is Permit Limit Equal or More Stringent?	
K402	60.342(a)(1) (HH)	(PM) 0.60 lbs/tsf	0.60 lbs/tsf	0.60 lbs/tsf	0.60 lbs/tsf	Yes	1 hour	1 hour	Yes	The results of performance testing established a value of 0.0014 lbs/tsf.
K402	60.342(a)(2) (HH)	(Opacity - Stack) ≤15%	≤ 15%	≤ 15%	≤ 15%	Yes	1 Hour (Ten 6 minute averages)	1 Hour (Ten 6 minute averages)	Yes	The permit limit is equally as stringent as the standard
P103a,P109a	60.672 (OOO)	(Opacity) ≤ 15%	≤ 15%	≤ 15%	≤ 15%	Yes	1 Hour (Ten 6 minute averages)	1 Hour (Ten 6 minute averages)	Yes	The permit limit is equally as stringent as the standard
P103, P106, P107, P109, P112, P114, P115, P129, R117, R120a, D101, D104, D105	60.672 (OOO)	(Opacity) ≤ 10%	≤ 10%	≤ 10%	≤ 10%	Yes	30 Minutes (Five 6 minute averages)	30 Minutes (Five 6 minute averages)	Yes	The permit limit is equally as stringent as the standard
K102a, K202a, And K302a	63.6602 (ZZZZ) non-emergency generators	Change Oil & Inspect Air Cleaner Every 1,000 hours; Inspect Hoses, and Belts Every 500 hours	Change Oil & Inspect Air Cleaner Every 1,000 hours; Inspect Hoses, and Belts Every 500 hours			Yes				The permit limit is equally as stringent as the standard

EU	Regulation (40 CFR)	Regulatory Standard	Permit Limit	Value Comparison (in Units of the Permit Limit)			Averaging Period Comparison			Streamlining Statement for Permit Shield Purposes
				Standard Value	Permit Limit Value	Is Permit Limit Equal or More Stringent?	Standard Averaging Period	Permit Limit Averaging Period	Is Permit Limit Equal or More Stringent?	
O110	63.6602 (ZZZZ) emergency generators	Change Oil & Inspect Hoses, and Belts Every 500 hours; Inspect Air Cleaner Every 1,000 hours;	Change Oil & Inspect Hoses, and Belts Every 500 hours; Inspect Air Cleaner Every 1,000 hours;			Yes				The permit limit is equally as stringent as the standard
K102, K202, K302, and K402a	63.7090(a) (AAAAA)	(PM) 0.12 lbs/tsf	0.12 lbs/tsf	0.12 lbs/tsf	0.12 lbs/tsf	Yes	1 hour	1 hour	Yes	The results of performance testing, using the weighted average of all four kilns, established a value of 0.012 lbs/tsf.
K102, K202 K302, K402	63.7090(a) (AAAAA)	(Opacity Stack) ≤ 15%	≤ 15%	≤ 15%	≤ 15%	Yes	1 Hour (Ten 6 minute averages)	1 Hour (Ten 6 minute averages)	Yes	The permit limit is equally as stringent as the standard
R108 R120 D104a	63.7090(a) (AAAAA)	(Opacity Fugitive) ≤ 10%	≤ 10%	≤ 10%	≤ 10%	Yes	1 Hour (Ten 6 minute averages)	1 Hour (Ten 6 minute averages)	Yes	The permit limit is equally as stringent as the standard

6.0 OTHER REQUIREMENTS

1. Any person who violates any provision of the AQRs, including, but not limited to, any application requirement; any permit condition; any fee or filing requirement; any duty to allow or carry out inspection, entry, or monitoring activities; or any requirements from DAQ is guilty of a civil offense and shall pay a civil penalty levied by the Air Pollution Control Hearing Board and/or the Hearing Officer of not more than $10,000. Each day of violation constitutes a separate offense. *[AQR 9.1; NRS 445B.640]*

2. Any person aggrieved by an order issued pursuant to AQR 9.1 is entitled to review, as provided in Chapter 233B of the NRS. *[AQR 9.12]*

3. The permittee shall comply with the requirements of Title 40, Part 61 of the Code of Federal Regulations (40 CFR Part 61), Subpart M—the National Emission Standard for Asbestos—for all demolition and renovation projects. *[AQR 13.1(b)(8)]*

4. The permittee shall not use, sell, or offer for sale any fluid as a substitute material for any motor vehicle, residential, commercial, or industrial air conditioning system, refrigerator freezer unit, or other cooling or heating device designated to use a Class I or Class II ozone-depleting substance or any nonexempt substitute refrigerant as a working fluid, unless such fluid has been approved for sale in such use by the EPA Administrator. The permittee shall keep records of all paperwork relevant to the applicable requirements of 40 CFR Part 82 on-site. *[40 CFR Part 82]*

5. A risk management plan is required for the storing, handling and use of an applicable "Highly Hazardous Chemical" pursuant to 40 CFR Part 68. The permittee shall submit revisions of the risk management plan to the appropriate authority and a copy to DAQ. *[40 CFR Part 68.150(b)(3)]*

7.0 ADMINISTRATIVE REQUIREMENTS

7.1 GENERAL

1. The permittee shall comply with all conditions of the Part 70 OP. Any permit noncompliance may constitute a violation of the Clark County Air Quality Regulations (AQRs), Nevada law, and the Clean Air Act, and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a renewal application. *[AQR 12.5.2.6(g)(1)]*

2. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall be unaffected and remain valid. *[AQR 12.5.2.6(f)]*

3. The permittee shall pay all permit fees pursuant to AQR 18. *[AQR 12.5.2.6(h)]*

4. This permit does not convey property rights of any sort, or any exclusive privilege. *[AQR 12.5.2.6(g)(4)]*

5. The permittee agrees to allow inspection of the premises to which this permit relates by any authorized representative of the Control Officer at any time during the permittee's hours of operation without prior notice. The permittee shall not obstruct, hamper, or interfere with any such inspection. *[AQR 4.1; AQR 5.1.1; and AQR 12.5.2.8(b)]*

6. The permittee shall allow the Control Officer, upon presentation of credentials and other documents as may be required by law, to enter onto the facility site, with or without prior notice, at any reasonable time for the purpose of establishing compliance with the AQR or this permit. Upon arrival at the facility, the Control Office shall check in at the main office (if arriving between the hours of 8:00 am and 5:00 pm on weekdays) or at the shipping office (if arriving at any other time). During the inspection, the Control Office shall comply with the applicable safety regulations of the Mine Safety and Health Administration, including the requirement to be escorted by the permittee. The permittee shall make an escort available promptly in order for the inspection to begin in a timely manner. Upon presentation of credentials, the permittee shall allow the Control Officer to: *[AQR 4.1 and AQR 12.5.2.8(b)]*

    a. Access and copy any records that must be kept under the conditions of the permit;

    b. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

    c. Sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements; and

    d. Document alleged violations using such devices as cameras or video equipment.

7. Any permittee who fails to submit relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit the needed supplementary facts or corrected information. In addition, the permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit. A Responsible Official shall certify the additional information consistent with the requirements of AQR 12.5.2.4. *[AQR 12.5.2.2]*

8. Anyone issued a permit under AQR 12.5 shall post it in a location where it is clearly visible and accessible to facility employees and DAQ representatives. *[AQR 12.5.2.6(m)]*

9. The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[AQR 12.5.2.6(g)(2)]*

7.2 MODIFICATION, REVISION, AND RENEWAL REQUIREMENTS

1. No person shall begin actual construction of a new Part 70 source, or modify or reconstruct an existing Part 70 source that falls within the preconstruction review applicability criteria, without first obtaining an Authority to Construct (ATC) from the Control Officer. *[AQR 12.4.1.1(a)]*

2. The permit may be revised, revoked, reopened and reissued, or terminated for cause by the Control Officer. The filing of a request by the permittee for a permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance, does not stay any permit condition. *[AQR 12.5.2.6(g)(3)]*

3. The permit shall be reopened under any of the following circumstances and when all applicable requirements pursuant to AQR 12.5.2.15 are met: *[AQR 12.5.2.15(a)]*

    a. New applicable requirements become applicable to a stationary source considered "major" (per the definition in AQR 12.2, AQR 12.3, or 40 CFR Part 70.3(a)(1)) with a remaining permit term of three or more years;

    b. Additional requirements (including excess emissions requirements) become applicable to an affected source under the Acid Rain Program;

    c. The Control Officer or U.S. Environmental Protection Agency (EPA) determines that the permit contains a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or

    d. The EPA Administrator or the Control Officer determines that the permit must be revised or revoked to assure compliance with applicable requirements.

4. A permit, permit revision, or renewal may be approved only if all of the following conditions have been met: *[AQR 12.5.2.10(a)]*

    a. The permittee has submitted to the Control Officer a complete application for a permit, permit revision, or permit renewal (except a complete application need not be received before a Part 70 general permit is issued pursuant to AQR 12.5.2.20); and

b. The conditions of the permit provide for compliance with all applicable requirements and the requirements of AQR 12.5.

5. The permittee shall not build, erect, install, or use any article, machine, equipment, or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of an applicable requirement. *[AQR 80.1 and 40 CFR Part 60.12]*

6. No permit revisions shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit. *[AQR 12.5.2.6(i)]*

7. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. *[AQR 12.5.2.11(b)]*

8. For purposes of permit renewal, a timely application is a complete application that is submitted at least six months, but not more than 18 months, prior to the date of permit expiration. If a source submits a timely application under this provision, it may continue operating under its current Part 70 OP until final action is taken on its application for a renewed Part 70 OP. *[AQR 12.5.2.1(a)(2)]*

8.0 ATTACHMENTS

8.1 APPLICABLE REGULATIONS

Requirements Specifically Identified as Applicable

1. Nevada Revised Statutes, Chapter 445B.

2. Applicable AQRs listed in Table 8-1.

Table 8-1: Applicable Clark County AQRs

Citation	Title
AQR 00	"Definitions"
AQR 04	"Control Officer"
AQR 05	"Interference with Control Officer"
AQR 7	"Hearing Board and Hearing Officer"
AQR 08	"Persons Liable for Penalties – Punishment: Defense"
AQR 09	"Civil Penalties"
AQR 12.0	"Applicability and General Requirements"
AQR 12.2	"Permit Requirements for Major Sources in Attainment Areas (Prevention of Significant Deterioration)"
AQR 12.3	"Permit Requirements for Major Sources in Nonattainment Areas"
AQR 12.4	"Authority to Construct Application and Permit Requirements for Part 70 Sources"
AQR 12.5	"Part 70 Operating Permit Requirements"
AQR 12.6	"Confidentiality"
AQR 12.7	"Emission Reduction Credits"
AQR 12.9	"Annual Emissions Inventory Requirement"
AQR 12.10	"Continuous Monitoring Requirement for Stationary Sources"
AQR 12.12	"Transfer of Permit"
AQR 12.13	"Posting of Permit"
AQR 13	"National Emission Standards for Hazardous Air Pollutants"
AQR 13.2(b)(1)	"Subpart A - General Provisions"
AQR 13.2(b)(82)	"Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines"
AQR 13.2(b)(83)	Subpart AAAAA – National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants"
AQR 14.1(b)(1)	"Subpart A – General Provisions"
AQR 14.1(b)(40)	"Standards of Performance for Lime Manufacturing Plants."
AQR 14.1(b)(68)	"Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants"
AQR 14.1(b)(81)	"Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines"
AQR 18	"Permit and Technical Service Fees"
AQR 25	"Affirmative Defense for Excess Emissions due to Malfunctions, Startup, and Shutdown"

Citation	Title
AQR 26	"Emission of Visible Air Contaminants"
AQR 27	"Particulate Matter from Process Weight Rate" (7/01/2004)
AQR 28	"Fuel Burning Equipment"
AQR 40	"Prohibitions of Nuisance Conditions"
AQR 41	"Fugitive Dust", AQR 41.1.2 only
AQR 43	"Odors in the Ambient Air"
AQR 45	"Idling of Diesel Powered Motor Vehicles"
AQR 50	"Storage of Petroleum Products"
AQR 70	"Emergency Procedures"
AQR 80	"Circumvention"
AQR 81	"Provisions of Regulations Severable" (7/01/2004)

3. Clean Air Act Amendments (42 U.S.C. § 7401, et seq.)

4. Applicable 40 CFR sections are listed in Table 8-2.

Table 8-2: Federal Standards

Citation	Title
40 CFR Part 52.21	"Prevention of Significant Deterioration (PSD)"
40 CFR Part 52.1470	"SIP Rules"
40 CFR Part 60, Subpart A	"Standards of Performance for New Stationary Sources (NSPS) – General Provisions"
40 CFR Part 60	Appendices A, B, and F
40 CFR Part 60, Subpart Y	"Standards of Performance for Coal Preparation Plants"
40 CFR Part 60, Subpart HH	"Standards of Performance for Lime Manufacturing Plants"
40 CFR Part 60, Subpart OOO	"Standards of Performance for Nonmetallic Mineral Processing Plants"
40 CFR Part 60, Subpart IIII	"New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines"
40 CFR Part 61, Subpart M	"Asbestos"
40 CFR Part 63, Subpart ZZZZ	"Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines"
40 CFR Part 63, Subpart AAAAA	"Standards for Hazardous Air Pollutants for Lime Manufacturing Plants"
40 CFR Part 70	"Federally Mandated Operating Permits"
40 CFR Part 82	"Protection of Stratospheric Ozone"

8.2 OPACITY LIMITS

1. The emission units itemized in Table 8-3 are subject to the federal NSPS and NESHAP requirements of the identified applicable Subparts. *[40 CFR Part 60 Subparts A, Y, HH, and OOO and 40 CFR Part 63 Subpart AAAAA]*

Table 8-3: NSPS and NESHAP Applicability

EU	Description	Applicable Subpart	Opacity Limits
P103	BC-103 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
P106	BC-104 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
	VS-202 Screening Stone	Subpart A, Subpart OOO	10%
P107	VS-203 Screening Stone	Subpart A, Subpart OOO	10%
P109a	CC-201 Crushing Stone	Subpart A, Subpart OOO	15%
P109	BC-204 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-225 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
P112	BN-226 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
P114	BC-205 Closed Stone	Subpart A, Subpart OOO	10%
	BC-206 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-207 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-209 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-210 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
P115	BC-236 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-237 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-208 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-235 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-Coarse 2	Subpart A, Subpart OOO	10%
R117	BC-217 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
	BC-224 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
	VS-229 Screening Stone	Subpart A, Subpart OOO	10%
R120a	BC-231 Closed Stone Transfer Point	Subpart A, Subpart OOO	10%
R120	BC-230 Closed Stone Transfer Point	Subpart A, Subpart OOO, 40 CFR Part 63 Subpart AAAAA	10%
	SB-04 Closed Stone Transfer Point		10%
K402	K4-KN-305 Rotary Kiln 4	Subpart A, Subpart HH, 40 CFR 63 Subpart AAAAA	15%
D101	D-BN-201 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
	D-BC-202 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
D104	D-BC-207 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
	D-VS-208 Screening Stone	Subpart A, Subpart OOO	10%
D104a	D-BC-213 Open Stone Transfer Point	Subpart A, Subpart OOO, 40 CFR Part 63 Subpart AAAAA	10%
D104c	D-BC-8301 Open Stone Transfer Point	Subpart A, Subpart OOO, 40 CFR Part 63 Subpart AAAAA	7% 10%
D105	D-BC-209 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
	D-BE-210 Open Stone Transfer Point	Subpart A, Subpart OOO	10%
	D-BN-211 Open Stone Transfer Point	Subpart A, Subpart OOO	10%

EU	Description	Applicable Subpart	Opacity Limits
D106	D-BC-209E	Subpart A, Subpart OOO	10%
F101	HO-40, 41 Fuel Transfer	Subpart A, Subpart Y	20%
	BC-40 Fuel Transfer	Subpart A, Subpart Y	20%
	BC-44 Fuel Transfer	Subpart A, Subpart Y	20%
	Loader Loading Fuel Transfer	Subpart A, Subpart Y	20%
	Loader Unloading Fuel Transfer	Subpart A, Subpart Y	20%
F104	CR-40 Fuel Crushing	Subpart A, Subpart Y	20%
	SC-44 Fuel Transfer	Subpart A, Subpart Y	20%
F106	BN-41 Bin Feeding	Subpart A, Subpart Y	20%
	BC-41 Fuel Transfer	Subpart A, Subpart Y	20%
F108	CM-41 Crushing Fuel	Subpart A, Subpart Y	20%
F109	SC-41 Fuel Transfer	Subpart A, Subpart Y	20%
	Reject Bin 1 Bin Feeding	Subpart A, Subpart Y	20%
	Reject Bin 1 Loadout Fuel Transfer	Subpart A, Subpart Y	20%
F112	BN-42 Bin Feeding	Subpart A, Subpart Y	20%
	BC-42 Fuel Transfer	Subpart A, Subpart Y	20%
F114	CM-42 Crushing Fuel	Subpart A, Subpart Y	20%
F116	SC-42 Fuel Transfer	Subpart A, Subpart Y	20%
	Reject Bin 2 Bin Feeding	Subpart A, Subpart Y	20%
	Reject Bin 2 Loadout Fuel Transfer	Subpart A, Subpart Y	20%
F118	BN-43 Bin Feeding	Subpart A, Subpart Y	20%
	BC-43 Fuel Transfer	Subpart A, Subpart Y	20%
	CM-43 Crushing Fuel	Subpart A, Subpart Y	20%
F122	SC-43 Fuel Transfer	Subpart A, Subpart Y	20%
	Reject Bin 3 Bin Feeding	Subpart A, Subpart Y	20%
	Reject Bin 3 Loadout Fuel Transfer	Subpart A, Subpart Y	20%
F125	K4-SC-402 Fuel Transfer	Subpart A, Subpart Y	20%
	K4-BN-404 Bin Feeding	Subpart A, Subpart Y	20%
	K4-BN-406 Bin Feeding	Subpart A, Subpart Y	20%
	K4-WF-408 Fuel Transfer	Subpart A, Subpart Y	20%
	K4-WF-409 Fuel Transfer	Subpart A, Subpart Y	20%
	K4-BC-410 Fuel Transfer	Subpart A, Subpart Y	20%
F131	K4-CM-413 Fuel Crushing	Subpart A, Subpart Y	20%
F132	K4-SC-419 Fuel Transfer	Subpart A, Subpart Y	20%
	Reject Bin 4 Bin Feeding	Subpart A, Subpart Y	20%
	Reject Bin 4 Loadout Fuel Transfer	Subpart A, Subpart Y	20%

2. The emission units itemized in Table 8-4 are subject to the requirements of AQR 26. *[AQR 26.1 and Table 6 of 40 CFR Part 63, Subpart AAAAA]*

Table 8-4: Section 26 and 40 CFR Part 63 Subpart AAAAA Applicability

EU	Description	Subject to Subpart AAAAA?	Opacity Limits
Q101	Mining Ore (1945)	N	20%
	Mining Low Grade Ore/Overburden (1945)	N	20%
Q103	Drilling Ore (1945)	N	20%
QS101	Sprinkler Pump Diesel Engine (2001)	N	20%
P103	HO-101/PF-101 Open Stone Transfer Pt (1945)	N	20%
	GR-101 Open Stone Transfer Point (1945)	N	20%
	JC-102 Crushing Stone (1945)	N	20%
R101	BC-11 Closed Stone Transfer Pt (underground) (1957)	N	20%
	BC-12 Closed Stone Transfer Point (1968)	N	20%
	BC-13 Closed Stone Transfer Point (1968)	N	20%
	VS-04 Screening Stone (1968)	N	20%
R106	BC-14 Closed Stone Transfer Point (1968)	N	20%
	BN-05 Closed Stone Transfer Point (1968)	N	20%
	BN-05 Loadout Open Stone Transfer Pt (1968)	N	20%
R108	BC-15, 16 Closed Stone Transfer Point (1957)	Y	10%
	BE-01, 02 Closed Stone Transfer Point (1957)	Y	10%
	BC-17 Closed Stone Transfer Point (1968)	Y	10%
	BC-18 Closed Stone Transfer Point (1968)	Y	10%
	SB-01 Closed Stone Transfer Point (1957)	Y	10%
	SB-02 Closed Stone Transfer Point (1957)	Y	10%
	SB-03 Closed Stone Transfer Point (1968)	Y	10%
K102	PH-01 Closed Stone Transfer Pt (baghouse) (1957) 40 CFR Part 63 Subpart AAAAA	Y	15%
	KN-01 Rotary Kiln 1 (baghouse DC-01) (1957) 40 CFR Part 63 Subpart AAAAA	Y	15%
	CO-01 Cooler (baghouse DC-01) (1957) 40 CFR Part 63 Subpart AAAAA	Y	15%
K102a	Auxiliary Kiln Drive Diesel Engine (1999)	N	20%
K104	SC-01 Lime Transfer (baghouse DC-20) (1957)	N	20%
	SC-02 Lime Transfer (baghouse DC-20) (1957)	N	20%
	BE-03 Lime Transfer (baghouse DC-20) (1991)	N	20%
K106	BN-06 Bin Feeding (1957)	N	20%
	BN-06 Loadout (1957)	N	20%

EU	Description	Subject to Subpart AAAAA?	Opacity Limits
K110	SC-04 Dust Transfer (sealed) (1991)	N	20%
	SC-05 Dust Transfer (sealed) (1991)	N	20%
	SC-07 Dust Transfer (sealed) (1991)	N	20%
	SC-08 Dust Transfer (baghouse DC-01) (1972)	N	20%
	BE-06 Dust Transfer (sealed) (1985)	N	20%
	SC-15 Dust Transfer (sealed) (1985)	N	20%
K114	BN-09 Bin Feeding (baghouse DC-04) (1985)	N	20%
	BN-09 Loadout (baghouse DC-04) (1985)	N	20%
K202	PH-02 Closed Stone Transfer Pt (baghouse DC-02) (1957)	Y	15%
	KN-02 Rotary Kiln 2 (baghouse DC-02) (1957)	N	15%
	CO-02 Cooler (baghouse DC-02) (1957)	N	15%
K202a	Auxiliary Kiln Drive Diesel Engine	N	20%
K204	SC-02 Lime Transfer (baghouse DC-30N) (1957)	N	20%
	BE-04 Lime Transfer (baghouse DC-30N) (1991)	N	20%
K206	BN-07 Bin Feeding (1957)	N	20%
	BN-07 Loadout (1957)	N	20%
K208	SC-06 Dust Transfer (baghouse DC-02) (1991)	N	20%
	SC-09 (sealed) (1972)	N	20%
	SC-13 (sealed) (1972)	N	20%
	BE-07 (sealed) (1972)	N	20%
	SC-16 (sealed) (1972)	N	20%
K213	BN-10 Bin Feeding (baghouse DC-05) (1972)	N	20%
	BN-10 Loadout (baghouse DC-05) (1972)	N	20%
K215	DA-BN-502 Bin Feeding (bin vent DA-DC-507) (1994)	N	20%
	DA-SC-505 Dust Transfer (sealed) (1994)	N	20%
	DA-SC-506 Dust Transfer (sealed) (1994)	N	20%
K302	PH-03 Closed Stone Transfer Pt (baghouse DC-03) (1968)	Y	15%
	KN-03 Rotary Kiln 3 (baghouse DC-03) (1968)	Y	15%
	CO-03 Cooler (baghouse DC-03) (1968)	Y	15%
K302a	Auxiliary Kiln Drive Diesel Engine	N	20%
K304	SC-03 Lime Transfer (sealed) (1968)	N	20%
	SC-04 Lime Transfer (sealed) (1968)	N	20%
K306	BN-08 Bin Feeding (1968)	N	20%
	BN-08 Loadout (1968)	N	20%
K308	BN-18 Bin Feeding (baghouse DC-03) (1968)	N	20%
	SC-18 Dust Transfer (baghouse DC-03) (1968)	N	20%
	SC-18 Loadout (baghouse DC-03) (1968)	N	20%
	SC-11, 12 Dust Transfer (sealed) (1972)	N	20%

EU	Description	Subject to Subpart AAAAA?	Opacity Limits
K402	K4-PH-302 Closed Stone Transfer Pt (baghouse) (1996)	Y	7%
	K4-CO-309 Cooler (baghouse K4-DC-340) (1996)	Y	15%
K402a	Auxiliary Kiln Drive Diesel Engine	N	20%
K404	K4-BC-501 Lime Transfer (1996)	N	20%
	K4-BE-502 Lime Transfer (1996)	N	20%
	K4-BC-503 Lime Transfer (baghouse DC-30N) (1996)	N	20%
	K4-BC-504 Lime Transfer (baghouse DC-30N) (1996)	N	20%
K408	K4-DBN-1 Bin Feeding	N	20%
	K4-DBN-2 Bin Feeding	N	20%
	K4-DBN-3 Bin Feeding	N	20%
	K4-DBN-4 Bin Feeding	N	20%
	K4-DBN-1 Load Out	N	20%
	K4-DBN-2 Load Out	N	20%
	K4-DBN-3 Load Out	N	20%
	K4-DBN-4 Load Out	N	20%
K410	Kiln Seal Dribble Chute Bin (bin feeding)	N	20%
	Kiln Seal Dribble Chute Bin (load out)	N	20%
K412	K4-SC-326 Dust Transfer (sealed) (1996)	N	20%
	K4-SC-327 Dust Transfer (sealed) (1996)	N	20%
	K4-SC-328 Dust Transfer (sealed) (1996)	N	20%
	K4-SC-329 Dust Transfer (sealed) (1996)	N	20%
K412	K4-BE-330 Dust Transfer (sealed) (1996)	N	20%
K417	K4-BN-508 Bin Feeding (bin vent K4-DC-509) (1996)	N	20%
	K4-BN-508 Bin Loadout (1996)	N	20%
K418	K4-SC-342 Dust Transfer (1996)	N	20%
L101	SC-24 Lime Transfer (1991)	N	20%
	SC-25 Lime Transfer (sealed) (1991)	N	20%
	BC-505/BC-20 Lime Transfer (baghouse DC-20) (1957)	N	20%
	BE-20 Lime Transfer (baghouse DC-20)(1957)	N	20%
L105	K4-BN-518 Bin Feeding (binvent K4-DC-519) (1996)	N	20%
	K4-SC-524 Lime Transfer (1996)	N	20%
L108	HM-20 Crushing Product (sealed) (1986)	N	20%
L110	VS-20 Screening Product (baghouse DC-20) (1957)	N	20%
	SI-02 Bin Feeding (baghouse DC-20) (1957)	N	20%
	SC-21 Lime Transfer (sealed) (1957)	N	20%
L112	SI-01 Bin Feeding (baghouse DC-20) (1957)	N	20%
	SC-23 Lime Transfer (sealed) (1957)	N	20%
	SC-26 Lime Transfer (sealed) (1957)	N	20%

EU	Description	Subject to Subpart AAAAA?	Opacity Limits
L116	SI-06 Bin Feeding (baghouse DC-20) (1957)	N	20%
	SC-27 Lime Transfer (sealed) (1957)	N	20%
L118	SI-07 Bin Feeding (baghouse DC-20) (1957)	N	20%
	SC-28 Lime Transfer (baghouse DC-20) (1968)	N	20%
	SC-20 Dust Transfer (sealed) (1986)	N	20%
L201	K4-BC-506 Lime Transfer (baghouse DC-8001) (1968)	N	20%
	SC-30 Lime Transfer (baghouse DC-30N) (sealed) (1972)	N	20%
	SC-4029 Lime Transfer (baghouse DC-30N) (2014)	N	20%
	K4-BC-507 Lime Transfer (baghouse DC-20)(1968)	N	20%
	BE-30 Lime Transfer (1968)	N	20%
	BC-32 Lime Transfer (1968)	N	20%
L206	CR-30 Crushing Product (baghouse DC-36) (1968)	N	20%
	BE-31 Lime Transfer (baghouse DC-36) (1968)	N	20%
	VS-30 Screening Product (baghouse DC-36) (1968)	N	20%
L208	SI-04 Bin Feeding (enclosed) (1968)	N	20%
	SI-03 Bin Feeding (enclosed) (1957)	N	20%
	SI-08 Bin Feeding (enclosed) (1957)	N	20%
	SI-09 Bin Feeding (enclosed) (1968)	N	20%
	SI-10 Bin Feeding (baghouse DC-37)	N	20%
L209	SC-38 Lime Transfer (sealed) (1968)	N	20%
	SC-39 Lime Transfer (sealed) (1968)	N	20%
	SC-38A Lime Transfer (sealed) (1968)	N	20%
	SC-37 Lime Transfer (sealed) (1995)	N	20%
	SC-36 Lime Transfer (sealed) (1995)	N	20%
	SC-40 Dust Transfer (sealed) (1995)	N	20%
	SC-41 Dust Transfer (sealed) (1995)	N	20%
H101	SC-101 Hydrate Transfer (sealed) (1990)	N	20%
H102	Small Bin Feeding (enclosed) (1990)	N	20%
	SC-105 Hydrate Transfer (sealed) (1990)	N	20%
H105	MX-106 Hydrate Transfer	N	20%
	HY-107 Hydrator	N	20%
	SC-111 Hydrate Transfer	N	20%
H108	BE-113 Hydrate Transfer	N	20%
	VS-115 Screening Product	N	20%
	SC-117 Hydrate Transfer	N	20%
H109	CR-116 Crushing Product	N	20%
H110	SC-119 Hydrate Transfer	N	20%

EU	Description	Subject to Subpart AAAAA?	Opacity Limits
H116	SC-118 Hydrate Transfer	N	20%
	BE-120 Hydrate Transfer	N	20%
	SC-121 Hydrate Transfer	N	20%
D201	D-HM-510 Crushing Product	N	20%
D202	D-SC-511 Lime Transfer	N	20%
	D-SC-512 Lime Transfer	N	20%
	D-SC-513 Lime Transfer	N	20%
	D-SC-514 Lime Transfer	N	20%
	D-SC-515 Lime Transfer	N	20%
D208	D-SC-516 Lime Transfer	N	20%
	D-BN-518, 519 Bin Feeding	N	20%
D211	D-BC-503 Lime Transfer	N	20%
	D-BN-504 Bin Feeding	N	20%
	D-SC-508 Lime Transfer	N	20%
O101	Ore Spillage Open Stone Transfer Point	N	20%
	Ore Spillage Reclaim	N	20%
	Ore Reclaim Unloading	N	20%
	Product Spillage Lime Transfer	N	20%
	Product Spillage Reclaim Lime Transfer	N	20%
	Product Reclaim Unloading	N	20%
O107	Kiln 1-3 Dump/Bypass Lime Transfer	N	20%
	Kiln 1-3 Dump/Bypass Reclaim Lime Transfer	N	20%
	Kiln 1-3 Dump/Bypass Unloading	N	20%
O110	Diesel-Powered Emergency Generator (rental) (maximum rating: 302 hp)	N	20%
SP1	Hopper Loading and Unloading	N	20%
	Conveyor Belt SP-2	N	20%
SP3	Screen SP-3	N	20%
	Stacker Belt	N	20%
	Stacker Belt	N	20%
	Stacker Belt	N	20%
TL1	Railcar Unloading (baghouse) (1999)	N	20%
A01	Quarry Areas (1945)	N	20%
	Limestone at Hopper (1945)	N	20%
	Fine Kiln-Feed Stockpile (1996)	N	20%
	Coarse Kiln-Feed Stockpile (1945)	N	20%
	Glass Flux Feed Stockpile (1996)	N	20%
	Kiln 4 Chat Stockpile (1996)	N	20%

EU	Description	Subject to Subpart AAAAA?	Opacity Limits
	Chat Stockpile (1945)	N	20%
	Solid Fuel Stockpile – Coal (1975)	N	20%
	Solid Fuel Stockpile – Coke	N	20%
	Dolomite Stockpile (1995)	N	20%
	Fine Dolomite Stockpile (1998)	N	20%
	Coarse Dolomite Stockpile (1998)	N	20%
	Dolo at Hopper	N	20%
	Portable Screening Plant Stockpiles	N	20%
	Waste Lime Stockpile	N	20%
	Waste Flue Dust Stockpile	N	20%
V01	Unpaved Haul Roads	N	20%
V02	Paved Import/Shipping Roads	N	20%
V03	Unpaved Reject Material Removal Exit Road	N	20%
V04	Paved Lime Plant Roads	N	20%
V05	Unpaved Lime Plant Roads	N	20%
V06	Dozer Travel on Paved Road	N	20%
P112	BN-226 Loadout Open Stone Transfer Pt (1996)	N	20%
D105	D-BN-211 Loadout (1995)	N	20%
LD4	Loader Loading	N	20%
	Loader Unloading	N	20%