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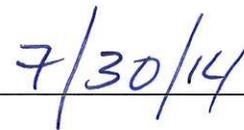
Air Quality Bureau
NEW SOURCE REVIEW PERMIT
Issued under 20.2.72 NMAC

Certified Mail No: 7013 2630 0000 9050 6545
Return Receipt Requested

NSR Permit No:	5384
Facility Name:	Ochoa Project
Permittee Name:	Intercontinental Potash Corp (USA)
Mailing Address:	600 West Bender Hobbs, NM 88240
TEMPO/IDEA ID No:	33152-PRN20130001
AIRS No:	35 0250552
Permitting Action:	New Minor Source NSR Permit
Source Classification:	Title V Major, GHGs > 100,000 CO ₂ e
Facility Location:	32°11'59.1" N and 103°31'59.2" W
County:	Lea
Air Quality Bureau Contact	Cember Hardison
Main AQB Phone No.	(505) 476-4300

RDR

Richard L. Goodyear, PE
Bureau Chief
Air Quality Bureau


Date



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PART A FACILITY SPECIFIC REQUIREMENTS

A100 Introduction

- A. This is a new construction permit issued pursuant to 20.2.72 NMAC Construction Permits. The application and draft permit were submitted under the Prevention of Significant Deterioration (PSD) regulation. However, due to a June 23, 2014 Supreme Court decision, case No. 12-1146 *Utility Air Regulatory Group vs. Environmental Protection Agency, Et. Al.* This facility is no longer subject to PSD.

A101 Permit Duration (expiration)

- A. The term of this permit is permanent unless withdrawn or cancelled by the Department or by the permittee.

A102 Facility: Description

- A. The function of the facility is to process raw polyhalite ore to produce products of sulphate of potash (SOP) and langbeinite. The description of the facility is for informational purposes only and is not enforceable.
- B. This facility is comprised of three main operations located in Lea County, New Mexico. The three operations include (1) the Ochoa Processing Plant, (2) the Jal Loadout Facility, and (3) the Groundwater Pre-Treatment Plant. The underground Ochoa Mine is considered part of the Ochoa Processing Plant and is located approximately 2 miles north of the Ochoa Processing Plant, across Highway 128.
- C. The locations of the three operations are:

- (1) **Ochoa Processing Plant:** latitude 32°, 11', 59.1" and longitude -103°, 31', 59.2", approximately 20.7 miles west-northwest of Jal, NM. The underground Ochoa Mine is located approximately 2 miles north of the Ochoa Processing Plant, across Highway 128.
- (2) **Jal Loadout Facility:** latitude 32°, 11', 14.1" and -103°, 12', 47.2", approximately 4.7 miles north-northwest of Jal, NM. The Jal Loadout Facility is located approximately 18.6 miles east of the Ochoa Processing Plant.
- (3) **Groundwater Pre-treatment Plant:** latitude 32°, 12', 43.8" and longitude -103°, 19', 47.1", approximately 10.4 miles northwest of Jal, NM. The Groundwater Pre-treatment Plant is located approximately 11.7 miles east-northeast of the Ochoa Processing Plant.

D. [Table 102.A](#) and [Table 102.B](#) show the total potential emissions from this facility for information only, not an enforceable condition. This table excludes exempt sources or activities.

Table 102.A: Total Potential Pollutant Emissions from Entire Facility

Pollutant	Emissions (tons per year)
Nitrogen Oxides (NOx)	165.1
Carbon Monoxide (CO)	168.6
Volatile Organic Compounds (VOC)	29.0
Sulfur Dioxide (SO ₂)	13.2
Total Suspended Particulates (TSP)	329.6
Particulate Matter less than 10 microns (PM ₁₀)	186.1
Particulate Matter less than 2.5 microns (PM _{2.5})	133.3
Hydrogen Sulfide (H ₂ S)	7.1
Lead	0.0024
Greenhouse Gas (GHG)	1,056,151

Table 102.B: Total Potential HAPS or NM TAPs that exceed 1.0 ton per year

Pollutant	Emissions (tons per year)
Total HAPs	< 1.0
NM Toxic Air Pollutants (TAPs)	< 1.0

A103 Facility: Applicable Regulations

A. The permittee shall comply with all applicable sections of the requirements listed in [Table 103.A](#).

Table 103.A: Applicable Requirements		
Applicable Requirements	Federally Enforceable	Unit No.
20.2.1 NMAC General Provisions	X	Entire Facility

Applicable Requirements	Federally Enforceable	Unit No.
20.2.3 NMAC Ambient Air Quality Standards	X	Entire Facility
20.2.7 NMAC Excess Emissions	X	Entire Facility
20.2.19 NMAC Potash, Salt or Sodium Sulfate Processing Equipment – Particulate Matter	X	S18A, S18B, S18C, S34, S73A, S73B, S90, S113, Stk1, Stk2, Stk5, Stk8, Stk9, Stk11, S1, S2, S56, S57, S92, S93, S126, S129, S132, S135, S181 to S188, S136 to S145, S154, S156, S157 to S166A & B, S172, S173, S175 to S180, S198, S199
20.2.61 NMAC Smoke and Visible Emissions	X	S196, S197
20.2.70 NMAC Operating Permits	X	Entire Facility
20.2.71 NMAC Operating Permit Emission Fees	X	Entire Facility
20.2.72 NMAC Construction Permit	X	Entire Facility
20.2.73 NMAC Notice of Intent and Emissions Inventory Requirements	X	Entire Facility
20.2.75 NMAC Construction Permit Fees	X	Entire Facility
20.2.77 NMAC New Source Performance	X	S196, S197
40 CFR 50 National Ambient Air Quality Standards	X	Entire Facility
40 CFR 60, Subpart A, General Provisions	X	S196, S197
40 CFR 60, Subpart Db	X	S196, S197

A104 Facility: Regulated Sources

A. Section A104 lists the emission units authorized for this facility. Emission units and/or equipment not regulated pursuant to the Act are not included.

Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
S1	Belt Conveyor From U/G #1	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Raw Ore Circuit
S2	Belt Conveyor From U/G #2	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Raw Ore Circuit
S3	Ore Storage Bypass Diverter Gate	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Raw Ore Circuit
S4	Ore Storage Feed Drag Conveyor	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Raw Ore Circuit
S5A,B	Raw Ore Bin #1 and #2	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Raw Ore Circuit

Table 104.A: Regulated Sources List Potash Processing at Ochoa Processing Plant						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
S6A,B	Ore Storage Drag Conveyor #1 and #2	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Raw Ore Circuit
S7	ROM Baghouse Fines Screw Conveyor	TBD	TBD	1 tph / 8760 tpy	TBD	Raw Ore Circuit
S8	Belt Conveyor from Raw Ore Storage	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
S9	Raw Ore Surge Bin	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
S10	VFD Belt Feeder	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
S11	Raw Ore Roll Crusher	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
S12	Wet Sizing Screen Feed Pump Box	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
	Wet Sizing Screen Feed Pump	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
	Wet Sizing Screens	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
	Wet O/S Cage Mill	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
	Wet Sizing Screens	TBD	TBD	550.4 tph / 4,821,592 tpy	TBD	Crushing Circuit
S13	Crusher Baghouse Fines Screw Conveyor	TBD	TBD	1 tph / 8760 tpy	TBD	Crushing Circuit
S18A	Polyhalite Dryer/Calciner	TBD	TBD	214.23 mmBtu/Hr	TBD	Polyhalite Calcining Circuit
S18B	Polyhalite Dryer/Calciner	TBD	TBD	214.23 mmBtu/Hr	TBD	Polyhalite Calcining Circuit
S18C	Polyhalite Dryer/Calciner	TBD	TBD	214.23 mmBtu/Hr	TBD	Polyhalite Calcining Circuit
S14A,B	Sodium Chloride Wash Belt Filter #1 & #2 to Calciner Feed Surge Bin #1 & #2	TBD	TBD	555.1 tph / 4,862,676 tpy	TBD	Polyhalite Calcining Circuit
S15A,B	Calciner Feed Surge Bin #1 and #2	TBD	TBD	555.1 tph / 4,862,676 tpy	TBD	Polyhalite Calcining Circuit
S16A,B	Calciner Feed Live Bottom Screw Conveyor #1 and #2	TBD	TBD	555.1 tph / 4,862,676 tpy	TBD	Polyhalite Calcining Circuit
S17A,B	Calciner Feed Live Bottom Screw Conveyor #3 and #4	TBD	TBD	555.1 tph / 4,862,676 tpy	TBD	Polyhalite Calcining Circuit
S19A,B,C	Polyhalite Dryer/Calciner Cyclone (3)	TBD	TBD	20 tph / 175,200 tpy	TBD	Polyhalite Calcining Circuit
S20A,B	Cooler Feed Bucket Elevator #1 and #2	TBD	TBD	458.89 tph / 4,019,876.4 tpy	TBD	Polyhalite Calcining Circuit
S21A,B,C	Polyhalite Coolers (3)	TBD	TBD	474.58 tph / 4,157,320.8 tpy	TBD	Polyhalite Calcining Circuit
S22A,B,C	Polyhalite Coolers Cyclones (3)	TBD	TBD	4.31 tph / 37,755.6	TBD	Polyhalite Calcining Circuit

Table 104.A: Regulated Sources List Potash Processing at Ochoa Processing Plant						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
S23	Calcined Polyhalite Screw Conveyor #1	TBD	TBD	473.87 tph / 4,151,101.2 tpy	TBD	Polyhalite Calcining Circuit
S24	Calcined Polyhalite Bucket Elevator	TBD	TBD	473.87 tph / 4,151,101.2 tpy	TBD	Polyhalite Calcining Circuit
S25	Calcined Polyhalite Surge Bin	TBD	TBD	473.87 tph / 4,151,101.2 tpy	TBD	Polyhalite Calcining Circuit
S26	Calcined Polyhalite Screw Conveyor #3	TBD	TBD	473.87 tph / 4,151,101.2 tpy	TBD	Polyhalite Calcining Circuit
S27	Calcined Polyhalite Belt Conveyor	TBD	TBD	473.87 tph / 4,151,101.2 tpy	TBD	Polyhalite Calcining Circuit
S28	Stage 1 Leach Pug Mixer	TBD	TBD	473.87 tph / 4,151,101.2 tpy	TBD	Polyhalite Calcining Circuit
S30A,B,C	Calcined Baghouse Screw Conveyor #1-3	TBD	TBD	2.15 tph / 18,834 tpy	TBD	Polyhalite Calcining Circuit
S34	SOP Product Dryer	TBD	TBD	18.74 mmBtu/Hr	TBD	SOP Drying and Sizing Circuit
S32	SOP Centrifuge	TBD	TBD	111.3 tph / 974,988 tpy	TBD	SOP Drying and Sizing Circuit
S33	Screw Feeder	TBD	TBD	111.3 tph / 974,988 tpy	TBD	SOP Drying and Sizing Circuit
S35	SOP Product Dryer Cyclone	TBD	TBD	9.69 tph / 84,884.4 tpy	TBD	SOP Drying and Sizing Circuit
S36	SOP Bucket Elevator #1	TBD	TBD	106.87 tph / 936,181.2 tpy	TBD	SOP Drying and Sizing Circuit
S37	SOP Product Column Cooler	TBD	TBD	106.87 tph / 936,181.2 tpy	TBD	SOP Drying and Sizing Circuit
S38	SOP Product Surge Bin	TBD	TBD	111.38 tph / 975,688.8 tpy	TBD	SOP Drying and Sizing Circuit
S39	SOP Product Surge Bin Screw Feeder	TBD	TBD	111.38 tph / 975,688.8 tpy	TBD	SOP Drying and Sizing Circuit
S40	SOP Bucket Elevator #2	TBD	TBD	109.16 tph / 956,341.6 tpy	TBD	SOP Drying and Sizing Circuit
S41	Standard SOP Multi-Deck Sizing Screen	TBD	TBD	109.16 tph / 956,341.6 tpy	TBD	SOP Drying and Sizing Circuit
S42	Standard SOP Single Stage Roller Crusher	TBD	TBD	10 tph / 87,600 tpy	TBD	SOP Drying and Sizing Circuit
S43	SOP O/S Crusher Recycle Screw Conveyor	TBD	TBD	10 tph / 87,600 tpy	TBD	SOP Drying and Sizing Circuit
S44	SOP Bucket Elevator #3	TBD	TBD	12.53 tph / 109,762.8 tpy	TBD	SOP Drying and Sizing Circuit
S45	Soluble SOP Multi-Deck Sizing Screen	TBD	TBD	12.53 tph / 109,850.0 tpy	TBD	SOP Drying and Sizing Circuit
S46	Soluble SOP Transfer Belt Conveyor	TBD	TBD	12.37 tph / 108,361.2 tpy	TBD	SOP Drying and Sizing Circuit
S47	Soluble SOP Splitter Gate	TBD	TBD	12.37 tph / 108,194.0 tpy	TBD	SOP Drying and Sizing Circuit
S48	Soluble SOP Dedusting Screw	TBD	TBD	12.35 tph /	TBD	SOP Drying and

Table 104.A: Regulated Sources List Potash Processing at Ochoa Processing Plant						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
	Conveyor			108,186 tpy		Sizing Circuit
S49	SOP Bucket Elevator #5	TBD	TBD	12.35 tph / 108,186 tpy	TBD	SOP Drying and Sizing Circuit
S50	SOP Standard Splitter Gate #1	TBD	TBD	95.54 tph / 836,930.4 tpy	TBD	SOP Drying and Sizing Circuit
S51	Standard SOP Screw Conveyor	TBD	TBD	48.4 tph / 423,984 tpy	TBD	SOP Drying and Sizing Circuit
S52	SOP Standard Splitter Gate #2	TBD	TBD	68.33 tph / 598,570.8 tpy	TBD	SOP Drying and Sizing Circuit
S53	Standard SOP Single Stage Roll Crusher	TBD	TBD	4.52 tph / 39,595.2 tpy	TBD	SOP Drying and Sizing Circuit
S54	Standard SOP Dedusting Screw Conveyor	TBD	TBD	63.82 tph / 559,063.2 tpy	TBD	SOP Drying and Sizing Circuit
S55	SOP Bucket Elevator #4	TBD	TBD	63.82 tph / 559,063.2 tpy	TBD	SOP Drying and Sizing Circuit
S56	Truck Unload SOP Fines Return from Jal Loadout Facility	TBD	TBD	90.4 tpd / 33,010.3 tpy	TBD	SOP Drying and Sizing Circuit
S57	SOP Fines Return Dump Hopper	TBD	TBD	90.4 tpd / 33,010.3 tpy	TBD	SOP Drying and Sizing Circuit
S58	SOP Fines Return Belt Feeder	TBD	TBD	90.4 tpd / 33,010.3 tpy	TBD	SOP Drying and Sizing Circuit
S59	SOP Fines Return Belt Conveyor	TBD	TBD	90.4 tpd / 33,010.3 tpy	TBD	SOP Drying and Sizing Circuit
S60	SOP Fines Belt Conveyor	TBD	TBD	48.58 tph / 425,560.8 tpy	TBD	SOP Drying and Sizing Circuit
S73A	SOP Granulation Dryer	TBD	TBD	16.54 mmBtu/Hr	TBD	SOP Granulation Circuit
S73B	SOP Granulation Dryer	TBD	TBD	16.54 mmBtu/Hr	TBD	SOP Granulation Circuit
S61	SOP Granulation Feed Bucket Elevator #1	TBD	TBD	48.58 tph / 425,560.8 tpy	TBD	SOP Granulation Circuit
S62	SOP Recycle Bin #1	TBD	TBD	48.58 tph / 425,560.8 tpy	TBD	SOP Granulation Circuit
S63	SOP Granulation Splitter Gate	TBD	TBD	48.58 tph / 425,560.8 tpy	TBD	SOP Granulation Circuit
S64	SOP Fine Grinding Mill Feed Screw Conveyor	TBD	TBD	14.57 tph / 127,633.2 tpy	TBD	SOP Granulation Circuit
S65	SOP Vertical Fine Grinding Mill	TBD	TBD	14.57 tph / 127,633.2 tpy	TBD	SOP Granulation Circuit
S66	SOP Fine Grinding Mill Dry Cyclone	TBD	TBD	14.57 tph / 127,633.2 tpy	TBD	SOP Granulation Circuit
S67	SOP Recycle Bin #4	TBD	TBD	14.57 tph / 127,633.2 tpy	TBD	SOP Granulation Circuit
S68	SOP Granulation Feed Bucket Elevator #2	TBD	TBD	144.38 tph / 1,264,768.8 tpy	TBD	SOP Granulation Circuit
S69A,B	SOP Granulation Feed Screw Conveyor	TBD	TBD	144.38 tph / 1,264,768.8 tpy	TBD	SOP Granulation Circuit

Table 104.A: Regulated Sources List Potash Processing at Ochoa Processing Plant						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
S70A,B	SOP Granulation Pin Mixer #1 and #2	TBD	TBD	147.52 tph / 1,292,275.2 tpy	TBD	SOP Granulation Circuit
S71A,B	SOP Disc Granulator #1 and #2	TBD	TBD	147.52 tph / 1,292,275.2 tpy	TBD	SOP Granulation Circuit
S72	SOP Granulator Product Belt Conveyor	TBD	TBD	147.53 tph / 1,292,275.2 tpy	TBD	SOP Granulation Circuit
S74	SOP Granulation Dryer Bucket Elevator	TBD	TBD	143.28 tph / 1,255,132.8 tpy	TBD	SOP Granulation Circuit
S75	SOP Granulation Cooler Unit	TBD	TBD	143.28 tph / 1,255,132.8 tpy	TBD	SOP Granulation Circuit
S76	SOP Granulation Cooler Bucket Elevator	TBD	TBD	141.85 tph / 1,242,606 tpy	TBD	SOP Granulation Circuit
S77	SOP Granulation Splitter Gate	TBD	TBD	141.85 tph / 1,242,606 tpy	TBD	SOP Granulation Circuit
S78A,B	SOP Granulation Sizing Screens #1 and #2	TBD	TBD	141.85 tph / 1,242,606 tpy	TBD	SOP Granulation Circuit
S79A,B	SOP Single Stage Roll Crusher #1 and #2	TBD	TBD	26.64 tph / 233,366.4 tpy	TBD	SOP Granulation Circuit
S80	SOP Product Screening Belt Conveyor	TBD	TBD	95.8 tph / 839,208 tpy	TBD	SOP Granulation Circuit
S81	SOP Recycle Bin #5	TBD	TBD	95.8 tph / 839,208 tpy	TBD	SOP Granulation Circuit
S82	SOP Granular Product Screw Conveyor	TBD	TBD	49.44 tph / 433,094.4 tpy	TBD	SOP Granulation Circuit
S83	SOP Granular Product Bucket Elevator	TBD	TBD	49.44 tph / 433,094.4 tpy	TBD	SOP Granulation Circuit
S84	SOP Product Dryer Dust Collector Fines Screw Conveyor	TBD	TBD	1.07 tph / 9,373.2	TBD	SOP Granulation Circuit
S85	SOP Granulation Dryer Dust Collector Fines Screw Conveyor	TBD	TBD	1.23 tph / 10,774.8 tpy	TBD	SOP Granulation Circuit
S86	SOP Area Dust Collector Fines Screw Conveyor	TBD	TBD	3.27 tph / 28,645.2 tpy	TBD	SOP Granulation Circuit
S87	SOP Dust Screw Conveyor	TBD	TBD	5.57 tph / 48,739.2 tpy	TBD	SOP Granulation Circuit
S90	Langbeinite Product Dryer	TBD	TBD	10.34 mmBtu/Hr	TBD	Langbeinite Drying and Sizing Circuit
S113	Langbeinite Glazing/Conditioning Dryer	TBD	TBD	2 mmBtu/Hr	TBD	Langbeinite Drying and Sizing Circuit
S88	Langbeinite Crystallization	TBD	TBD	44.08 tph / 386,140.8 tpy	TBD	Langbeinite Drying and Sizing Circuit
S89	Screw Feeder	TBD	TBD	44.08 tph / 386,140.8 tpy	TBD	Langbeinite Drying and Sizing Circuit
S91	Langbeinite Screw Conveyor	TBD	TBD	41.91 tph / 367,131.6 tpy	TBD	Langbeinite Drying and Sizing Circuit
S92	Truck Unload Langbeinite Returns from Jal Loadout Facility	NA	NA	30.7 tpd / 11,190.0 tpy	TBD	Langbeinite Drying and Sizing Circuit

Table 104.A: Regulated Sources List Potash Processing at Ochoa Processing Plant						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
S93	Langbeinite Fines Return Dump Hopper	TBD	TBD	30.7 tpd / 11,190.0 tpy	TBD	Langbeinite Drying and Sizing Circuit
S94	Langbeinite Fines Return Belt Feeder	TBD	TBD	30.7 tpd / 11,190.0 tpy	TBD	Langbeinite Drying and Sizing Circuit
S95	Langbeinite Fines Return Belt Conveyor	TBD	TBD	30.7 tpd / 11,190.0 tpy	TBD	Langbeinite Drying and Sizing Circuit
S96	Langbeinite Compaction Pug Mixer	TBD	TBD	167.35 tph / 1,465,986 tpy	TBD	Langbeinite Compaction Circuit
S97	Langbeinite Compaction Feed Bucket Elevator	TBD	TBD	167.35 tph / 1,465,986 tpy	TBD	Langbeinite Compaction Circuit
S98	Langbeinite Compactor Feed Surge Bin	TBD	TBD	167.35 tph / 1,465,986 tpy	TBD	Langbeinite Compaction Circuit
S99	Langbeinite Compactor	TBD	TBD	167.35 tph / 1,465,986 tpy	TBD	Langbeinite Compaction Circuit
S100	Langbeinite Flake Breaker	TBD	TBD	167.35 tph / 1,465,986 tpy	TBD	Langbeinite Compaction Circuit
S101	Langbeinite Compactor Outlet Belt Conveyor	TBD	TBD	607.03 tph / 5,317,582.8 tpy	TBD	Langbeinite Compaction Circuit
S102	Langbeinite Compactor Outlet Bucket Elevator	TBD	TBD	607.03 tph / 5,317,582.8 tpy	TBD	Langbeinite Compaction Circuit
S103	Langbeinite Compaction Splitter Gate	TBD	TBD	607.03 tph / 5,317,582.8 tpy	TBD	Langbeinite Compaction Circuit
S104A,B	Langbeinite Compaction Sizing Screen #1 and #2	TBD	TBD	607.03 tph / 5,317,582.8 tpy	TBD	Langbeinite Compaction Circuit
S105	Langbeinite Compaction Drag Conveyor	TBD	TBD	114.06 tph / 999,165.6 tpy	TBD	Langbeinite Compaction Circuit
S106	Langbeinite Compaction Screw Conveyor #2	TBD	TBD	439.68 tph / 3,851,596.8 tpy	TBD	Langbeinite Compaction Circuit
S107A,B	Langbeinite Cage Pactor #1 and #2	TBD	TBD	439.68 tph / 3,851,596.8 tpy	TBD	Langbeinite Compaction Circuit
S108	Langbeinite Conditioning Drum Feed Belt Conveyor	TBD	TBD	143 tph / 1,252,680 tpy	TBD	Langbeinite Compaction Circuit
S109	Langbeinite Product Conditioning Drum Bucket Elevator	TBD	TBD	143 tph / 1,252,680 tpy	TBD	Langbeinite Compaction Circuit
S110	Langbeinite Conditioning Surge Bin	TBD	TBD	143 tph / 1,252,680 tpy	TBD	Langbeinite Compaction Circuit
S111	Langbeinite Conditioning Drum Screw Feeder	TBD	TBD	143 tph / 1,252,680 tpy	TBD	Langbeinite Compaction Circuit
S112	Conditioning Drum	TBD	TBD	145.14 tph / 1,271,426.4 tpy	TBD	Langbeinite Compaction Circuit
S114	Langbeinite Glazing/Conditioning Dryer Cyclone	TBD	TBD	1.49 tph / 13,052.4 tpy	TBD	Langbeinite Compaction Circuit
S115	Langbeinite Compaction Dryer Outlet Belt Conveyor	TBD	TBD	143.08 tph / 1,253,380.8 tpy	TBD	Langbeinite Compaction Circuit
S116	Langbeinite Compaction Product	TBD	TBD	143.08 tph /	TBD	Langbeinite

Table 104.A: Regulated Sources List Potash Processing at Ochoa Processing Plant						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
	Bucket Elevator			1,253,380.8 tpy		Compaction Circuit
S117	Langbeinite Compaction Product Screen	TBD	TBD	143.08 tph / 1,253,380.8 tpy	TBD	Langbeinite Compaction Circuit
S118	Langbeinite Product De-Dusting Screw Conveyor	TBD	TBD	42.58 tph / 373,000.8 tpy	TBD	Langbeinite Compaction Circuit
S119	Langbeinite Product Bucket Elevator	TBD	TBD	42.58 tph / 373,000.8 tpy	TBD	Langbeinite Compaction Circuit
S120	Langbeinite Product Dryer Dust Collector Fines Screw Conveyor	TBD	TBD	0.04 tph / 350.4 tpy	TBD	Langbeinite Compaction Circuit
S121	Langbeinite Area Dust Collector Fines Screw Conveyor	TBD	TBD	0.41 tph / 3,591.6 tpy	TBD	Langbeinite Compaction Circuit
S122	Langbeinite Compaction Dust Collector Fines Screw Conveyor	TBD	TBD	6 tph / 52,560 tpy	TBD	Langbeinite Compaction Circuit
S123	Langbeinite Glazing/Conditioning Dust Collector Fines Screw Conveyor	TBD	TBD	0.01 tph / 87.6 tpy	TBD	Langbeinite Compaction Circuit
S124	Granular SOP Belt Conveyor	TBD	TBD	49.44 tph / 433,094.4 tpy	TBD	Product Loading Circuit
S125	Granular SOP Loading Bin	TBD	TBD	49.44 tph / 433,094.4 tpy	TBD	Product Loading Circuit
S126	Granular SOP Loading Bulk Weigher	TBD	TBD	1186.6 tpd / 433,094.4 tpy	TBD	Product Loading Circuit
S127	Standard SOP Belt Conveyor	TBD	TBD	63.82 tph / 559,063.2 tpy	TBD	Product Loading Circuit
S128	Standard SOP Loading Bin	TBD	TBD	63.82 tph / 559,063.2 tpy	TBD	Product Loading Circuit
S129	Standard SOP Loading Bulk Weigher	TBD	TBD	1531.7 tpd / 559,063.2 tpy	TBD	Product Loading Circuit
S130	Soluable SOP Belt Conveyor	TBD	TBD	12.35 tph / 108,186 tpy	TBD	Product Loading Circuit
S131	Soluable SOP Loading Bin	TBD	TBD	12.35 tph / 108,186 tpy	TBD	Product Loading Circuit
S132	Soluable SOP Loading Bulk Weigher	TBD	TBD	296.4 tpd / 108,186 tpy	TBD	Product Loading Circuit
S133	Granular Langbeinite Belt Conveyor	TBD	TBD	42.58 tph / 373,000.8	TBD	Product Loading Circuit
S134	Granular Langbeinite Loading Bin	TBD	TBD	42.58 tph / 373,000.8 tpy	TBD	Product Loading Circuit
S135	Granular Langbeinite Loading Bulk Weigher	TBD	TBD	1021.9 tpd / 373,000.8 tpy	TBD	Product Loading Circuit
S175	Stage 2 Leach Belt Conveyor	TBD	TBD	338.69 tph / 2,966,924.4 tpy	TBD	Gypsum Waste and Tailing Circuit
S176	Gypsum Surge Bin	TBD	TBD	338.69 tph / 2,966,924.4 tpy	TBD	Gypsum Waste and Tailing Circuit
S177	Gypsum Screw Conveyor	TBD	TBD	338.69 tph / 2,966,924.4 tpy	TBD	Gypsum Waste and Tailing Circuit

Table 104.A: Regulated Sources List Potash Processing at Ochoa Processing Plant						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
S178	Gypsum Haul Trucks Unload	NA	NA	338.69 tph / 2,966,924.4 tpy	TBD	Gypsum Waste and Tailing Circuit
S179	Gypsum Stockpile - Bulldozer	NA	NA	24 Hours/Day	TBD	Gypsum Waste and Tailing Circuit
S180	Gypsum Stockpile Wind Erosion	NA	NA	~ 337 Acres	TBD	Gypsum Waste and Tailing Circuit
S181	SOP Binder Bulk Bags Load	NA	NA	0.62 tph / 5,431.2 tpy	TBD	Additive Loading
S182	SOP Binder Feed Hopper	TBD	TBD	0.62 tph / 5,431.2 tpy	TBD	Additive Loading
S183	Langbeinite Binder Bulk Bags Load	NA	NA	0.62 tph / 5,431.2 tpy	TBD	Additive Loading
S184	Langbeinite Binder Feed Hopper	TBD	TBD	0.62 tph / 5,431.2 tpy	TBD	Additive Loading
S185	Flocculant Bulk Bags Load	NA	NA	0.62 tph / 5,431.2 tpy	TBD	Additive Loading
S186	Leaching Circuit Flocculent Feed Hopper	TBD	TBD	0.62 tph / 5,431.2 tpy	TBD	Additive Loading
S187	Sodium Chloride Wash Flocculant Bulk Bags Load	NA	NA	0.62 tph / 5,431.2 tpy	TBD	Additive Loading
S188	Sodium Chloride Wash Flocculant Feed Hopper	TBD	TBD	0.62 tph / 5,431.2 tpy	TBD	Additive Loading
S189/S190	Product/Recycle Haul Road	N/A	N/A	N/A	N/A	Haul Roads
S191/S192 /S193	Additive/Equipment/De-Duster Delivery Haul Road	N/A	N/A	N/A	N/A	Haul Roads
S194	Waste (Gypsum) Haul Road	N/A	N/A	N/A	N/A	Haul Roads
S196	Boiler 1	TBD	TBD	155.9 mmBtu/Hr	TBD	Evaporation & Crystallization Circuit
S197	Boiler 2	TBD	TBD	155.9 mmBtu/Hr	TBD	Evaporation & Crystallization Circuit
S198	Polyhalite Stockpile from Mine Excavation and Construction	N/A	N/A	2 Acres	N/A	Mine Construction
S199	Waste Stockpile from Mine Excavation and Construction	N/A	N/A	4 Acres	N/A	Mine Construction
OPTNKG AS	Ochoa Plant Gasoline Storage Tank & Dispenser	TBD	TBD	5000 Gallons	TBD	Fuel for Vehicles

Table 104.B: Regulated Sources List Jal Loadout Facility						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
S136	SOP Product Truck Unload	N/A	N/A	300.02 tph / 1,100,343.6 tpy	N/A	SOP Loading Circuit
S137	SOP Dump Hopper	TBD	TBD	300.02 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit

Table 104.B: Regulated Sources List Jal Loadout Facility						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
S138	SOP Storage Belt Feeder	TBD	TBD	300.02 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S139	SOP Storage Belt Conveyor	TBD	TBD	300.02 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S140	SOP Storage Bucket Elevator	TBD	TBD	300.02 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S141	SOP Storage Belt Tripper Conveyor	TBD	TBD	300.02 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S142	SOP Storage Bin Building	TBD	TBD	361.21 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S143	SOP Feed Hoppers	TBD	TBD	361.21 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S144A / S144B	Soluable SOP Reclaim Belt Feeder / Granular SOP Reclaim Belt Feeder	TBD	TBD	361.21 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S145A / S145B	SOP Reclaim Belt Conveyor / Standard SOP Reclaim Belt Conveyor	TBD	TBD	361.21 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S146	SOP Reclaim Bucket Elevator	TBD	TBD	361.21 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S147	SOP Reclaim Drag Conveyor	TBD	TBD	361.21 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S148 / S149 / S150	Soluable SOP Reclaim Scalping Screen / Standard SOP Reclaim Multi-deck Screen / Granular SOP Reclaim Multi-deck Screen	TBD	TBD	350.38 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S151	SOP Reclaim Loading Bin	TBD	TBD	602.18 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S152	SOP Drag Conveyor	TBD	TBD	602.18 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S153	SOP Bucket Elevator	TBD	TBD	602.18 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S154	SOP Loading Bulk Weigher	TBD	TBD	602.18 tph / 1,100,343.6 tpy	TBD	SOP Loading Circuit
S155	SOP Screw Conveyor	TBD	TBD	27.1 tph / 33,010.31 tpy	TBD	SOP Loading Circuit
S156	SOP Reclaim Off-Size Bin	TBD	TBD	301.1 tph / 33,010.31 tpy	TBD	SOP Loading Circuit
S157	Granular Langbeinite Product Truck Unload	NA	NA	300.02 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S158	Granular Langbeinite Dump Hopper	TBD	TBD	300.02 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S159	Granular Langbeinite Storage Belt Feeder	TBD	TBD	300.02 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S160	Granular Langbeinite Storage Belt Conveyor	TBD	TBD	300.02 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S161	Granular Langbeinite Storage	TBD	TBD	300.02 tph /	TBD	Langbeinite Loading

Table 104.B: Regulated Sources List Jal Loadout Facility						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacities	Construction Date	Process Area or Circuit
	Bucket Elevator			373,000.8 tpy		Circuit
S162	Granular Langbeinite Storage Belt Conveyor with Plough	TBD	TBD	300.02 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S163	Granular Langbeinite Storage Bin Building	TBD	TBD	361.21 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S164	Granular Langbeinite Feed Hoppers	TBD	TBD	361.21 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S165	Granular Langbeinite Reclaim Belt Conveyor #1	TBD	TBD	361.21 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S166A / S166B	Granular Langbeinite Reclaim Belt Conveyor #2 / Granular Langbeinite Reclaim Belt Conveyor #3	TBD	TBD	361.21 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S167	Granular Langbeinite Reclaim Bucket Elevator	TBD	TBD	361.21 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S168	Granular Langbeinite Reclaim Multi-deck Screen	TBD	TBD	350.83 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S169	Granular Langbeinite Loading Bin	TBD	TBD	602.9 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S170	Granular Langbeinite Drag Conveyor	TBD	TBD	602.9 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S171	Granular Langbeinite Bucket Elevator	TBD	TBD	602.9 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S172	Granular Langbeinite Loading Bulk Weigher	TBD	TBD	602.9 tph / 373,000.8 tpy	TBD	Langbeinite Loading Circuit
S173	Granular Langbeinite Reclaim Off-Size Bin	TBD	TBD	301.45 tph / 11,190.02 tpy	TBD	Langbeinite Loading Circuit
S174	Jal Loadout Facility Dust Collector Fines Screw Conveyor	TBD	TBD	0.5 tph / 4380 tpy	TBD	Langbeinite Loading Circuit
S195	Jal Loadout Facility Haul Roads	N/A	N/A	N/A	TBD	Haul Road
JALTNKG AS	Jal Loadout Gasoline Storage Tank and Dispenser	TBD	TBD	5000 gallons	TBD	Fuel for Vehicles

Table 104.C: Regulated Sources List Groundwater Pre-Treatment Plant						
Unit No.	Description	Make/Model	Serial No.	Reported Maximum Capacity	Construction Date	Process Area or Circuit
S200A,B	Water Treatment Air Strippers	TBD	TBD	160,000 ACFM	TBD	Groundwater Pre-Treatment Plant

- A. All TBD (to be determined) values listed in Tables 104.A, 104.B, and 104.C must be reported to the Compliance and Enforcement Section Manager no later than 15 days after startup of the unit.

A105 Facility: Control Equipment

A. [Table 105](#) lists all the air pollution control equipment required for this facility.

Table 105 Air Pollution Control Requirements			
Emission Unit (s)	Control Unit No(s).	Pollutant	Control Methods
Dryers, Calciners, and Boilers			
S18A (Stk3A) S18B (Stk3B) S18C (Stk3C) Polyhalite Dryer/Calciners Fugitive PM sources routed to Stks 3A, 3B, 3C: S19A, S21A, S22A, S30A, S19B, S21B, S22B, S30B, S19C, S21C, S22C, S30C	N/A SC4, SC5, SC6	NOx TSP, PM10, PM2.5 (condensable + filterable)	ultra low-NOx, pre-mix type burner with multi-stage recirculation 1 Fabric Filter Baghouse per stack
S34 (Stk4) SOP Product Dryer Fugitive PM sources routed to Stk4: S32, S33, S35	SC8	TSP, PM10, PM2.5 (condensable + filterable)	Fabric Filter Baghouse
S73A (Stk6) S73B (Stk6) SOP Granulation Dryers Fugitive PM sources routed to Stk6: S72, S85	SC11	TSP, PM10, PM2.5 (condensable + filterable)	Fabric Filter Baghouse
S90 (Stk7) Langbeinite Product Dryer Fugitive PM sources routed to Stk7: S88, S89	SC12	TSP, PM10, PM2.5 (condensable + filterable)	Fabric Filter Baghouse
S113 (Stk10) Langbeinite Glazing/Conditioning Dryer Fugitive PM sources routed to Stk10: S111, S112, S114	SC15	TSP, PM10, PM2.5 (condensable + filterable)	Fabric Filter Baghouse
S196 (Stk 12) & S197 (Stk 13) Boiler 1 Boiler 2	N/A	NOx	Ultra Low NOx burner Flue Gas Recirculation
ROM Area Dust Collector (Stk 1)	SC2	TSP, PM10,	Fabric Filter Baghouse

Table 105 Air Pollution Control Requirements			
Emission Unit (s)	Control Unit No(s).	Pollutant	Control Methods
Fugitive PM Sources Routed to Stk1: S3, S4, S5A,B; S6A,B; S7		PM2.5 (filterable)	
Crusher Area Dust Collector (Stk 2) Fugitive PM Sources Routed to Stk2: S8, S9, S10, S11, S12, S13, S14A,B; S15A,B	SC3	TSP, PM10, PM2.5 (filterable)	Fabric Filter Baghouse
SOP Area Dust Collector (Stk 5) Fugitive PM Sources Routed to Stk5: S16A,B; S17A,B; S20A,B; S23 to S28; S36 to S55; S59 to S68; S69A, B; S70A, B; S71A, B; S74 to S77; S78A, B; S79A, B; S80 to S84; S86; S87; S124; S125; S127; S128; S130; S131; S133; S134	SC7	TSP, PM10, PM2.5 (filterable)	Fabric Filter Baghouse
Langbeinite Area Dust Collector (Stk 8) Fugitive PM Sources Routed to Stk8: S91, S94 to S103, S104A, B	SC13	TSP, PM10, PM2.5 (filterable)	Fabric Filter Baghouse
Langbeinite Compactor Dust Collector (Stk 9) Fugitive PM Sources Routed to Stk9: S105; S106; S107A,B; S108; S109; S110; S115 to S123	SC14	TSP, PM10, PM2.5 (filterable)	Fabric Filter Baghouse
Jal Loadout Facility Dust Collector (Stk 11) Fugitive PM Sources Routed to Stk11: S146 to S153, S155, S167 to S171, S174	SC26	TSP, PM10, PM2.5 (filterable)	Fabric Filter Baghouse
Other Sources			
S1, S2 ROM Area Fugitives	N/A	TSP, PM10, PM2.5 (filterable)	Full Cover Over Conveyor and Transfer Points Full means completely covers conveyor width or transfer point.
S56, S57 SOP Drying and Sizing Circuit	N/A	TSP, PM10, PM2.5 (filterable)	½ cover over drop points and de-dusting oil additive applied upstream of process ½ cover means covers 60% of conveyor width.
S92, S93 Langbeinite Drying and Sizing Circuit	N/A	TSP, PM10, PM2.5 (filterable)	½ cover over drop points and de-dusting oil additive applied upstream of process ½ cover means covers 60% of conveyor width.
S175, S176	N/A	TSP, PM10,	Full cover over conveyor and transfer points

Table 105 Air Pollution Control Requirements			
Emission Unit (s)	Control Unit No(s).	Pollutant	Control Methods
Waste Material Handling		PM2.5 (filterable)	Full means completely covers conveyor width or transfer point
S126, S129, S132, S135 Product Loadout Circuit: Granular SOP, Standard SOP, Soluble SOP, & Granular Langbeinite Loadout Bulk Weighers	N/A	TSP, PM10, PM2.5 (filterable)	½ cover over drop points, de-dusting oil additive applied upstream of process, and retractable loading spouts into truck ½ cover means covers 60% of conveyor width When loading material, retractable loading spouts shall be below the top of the truck loading bin
S181 to S188 Binder and Flocculant bag unloading and handling at Ochoa Processing Plant	N/A	TSP, PM10, PM2.5 (filterable)	Full Building Enclosure
S136, S137, S138, S157, S158, S159 Jal Loadout Facility	N/A	TSP, PM10, PM2.5 (filterable)	½ cover over drop points and de-dusting oil additive applied upstream of process ½ cover means covers 60% of conveyor width.
S139, S140, S141, S142, S143, S144, S145, S160, S161, S162, S163, S164, S165A, S165B, S166A, S166B Jal Loadout Facility	N/A	TSP, PM10, PM2.5 (filterable)	¾ cover over drop points and de-dusting oil additive applied upstream of process ¾ cover means covers 85 % of conveyor width
S154, S156, S172, S173 Jal Loadout Facility Rail Car Loading	N/A	TSP, PM10, PM2.5 (filterable)	De-dusting oil additive, plus for S156 & S173 Retractable loading spouts into truck When loading material, retractable loading spouts shall be below the top of the truck loading bin
S189, S190, S191, S192, S193 Paved Haul Roads Ochoa Processing Plant: Product/Recycle Haul Road and Delivery Haul Road	N/A	TSP, PM10, PM2.5 (filterable)	Paving, Maintaining, and Cleaning by sweeping or washing
S194, S195 Unpaved Haul Roads Ochoa Processing Plant: Waste Haul Road Jal Loadout: All Haul Roads	N/A	TSP, PM10, PM2.5 (filterable)	Chemical suppression/surfactants
S177 to S179 Waste Handling	N/A	TSP, PM10, PM2.5 (filterable)	Truck loading and unloading: inherent 20% moisture

Table 105 Air Pollution Control Requirements			
Emission Unit (s)	Control Unit No(s).	Pollutant	Control Methods
S180 Waste Stock Pile Storage	N/A	TSP, PM10, PM2.5 (filterable)	Wetting to prevent wind erosion of stock piles
S198 Polyhalite Stock Pile at Ochoa Processing Plant – from Excavation & Construction of Mine	N/A	TSP, PM10, PM2.5 (filterable)	<p>During construction phase of Ochoa Processing Plant, fugitive particulate matter emissions shall be controlled with water sprays to prevent particulate matter from becoming airborne. (20.2.19.7.A and 20.2.19.110.B NMAC)</p> <p>After construction, the Stock Piles shall then be left undisturbed until mine reclamation to prevent particulate matter from becoming airborne. (20.2.19.7.A and 20.2.19.110.B NMAC).</p>
S199 Waste Stock Pile at Ochoa Processing Plant – from Excavation & Construction of Mine	N/A	TSP, PM10, PM2.5 (filterable)	<p>During construction phase of Ochoa Processing Plant, fugitive particulate matter emissions shall be controlled with water sprays to prevent particulate matter from becoming airborne. (20.2.19.7.A and 20.2.19.110.B NMAC)</p> <p>After construction, the Stock Piles shall then be left undisturbed until mine reclamation to prevent particulate matter from becoming airborne. (20.2.19.7.A and 20.2.19.110.B NMAC).</p>
S200A, B H2S Air Strippers	SC29	H2S	Bio-Trickling Filter

- B. Fugitive particulate emission units that are listed in Table 105 as being routed to a stack, shall be routed to and controlled by a Fabric Filter Baghouse. Routing these emission sources to a Fabric Filter Baghouse was the assumption used for the ambient impact analysis for TSP, PM10, and PM2.5 in permit 5384.

A106 Facility: Allowable Emissions

A. The following Section lists the emission units and their allowable emission limits. (40 CFR 50, 40 CFR 60, Subparts A, and Db; 40 CFR 63, Subparts A and CCCCCC; 20.2.72.210.A and B.1 NMAC; and 20.2.19 NMAC)

Table 106.A: Allowable Emissions for NOx, CO, VOC, and SO2

Unit No (s).	NO _x ¹ pph	NO _x ¹ tpy	CO pph	CO tpy	VOC pph	VOC tpy	SO ₂ pph	SO ₂ tpy
³ S18A (stk3A)	27.0	118.0	24.0	104.0	3.8	16.4	1.9	8.5
³ S18B (stk3B)								
³ S18C (stk3C)								
S34 (stk4)	0.8	3.5	0.7	3.0	<	<	<	<
³ S73A (stk6)	1.4	6.1	1.2	5.4	<	<	<	<
³ S73B (stk6)					<	<	<	<
S90 (stk7)	0.4	1.9	0.4	1.7	<	<	<	<
S113 (stk10)	0.08	0.4	0.07	0.3	<	<	<	<
S196 (stk12)	3.1	14.0	5.8	25.0	1.0	4.0	<	2.1
S197 (stk13)	3.1	14.0	5.8	25.0	1.0	4.0	<	2.1

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO₂
 2 For Title V facilities, the Title V annual fee assessments are based on the sum of allowable tons per year emission limits in Section A106.
 “<” indicates the application represented uncontrolled emissions are less than 1.0 pph or 1.0 tpy for this pollutant. Allowable limits are not imposed on this level of emissions, except for flares and pollutants with controls.

- 3 The emission limits for S18A, S18B, and S18C are a single set of emission limits for all three units and all three emissions stacks combined. The permittee shall combine all stack test results from S18A, S18B, and S18C to determine compliance with the emission limits. The emission limits for S73A and S73B are a single set of emission limits for both units combined and are routed to one stack.

Table 106.B: Allowable Emissions for TSP, PM10, PM2.5, and H2S

Unit No.	TSP pph	TSP tpy	PM ₁₀ pph	PM ₁₀ tpy	PM _{2.5} pph	PM _{2.5} tpy	TSP gr/dscf ⁵ (20.2.19 NMAC)	H2S pph	H2S tpy
S18A (stk3A)	19.0	81.3	19.0	81.3	19.0	81.3	0.10	-	-
S18B (stk3B)							0.10	-	-
S18C (stk3C)							0.10	-	-
S34 (stk4)	0.6	2.8	0.6	2.8	0.6	2.8	0.10	-	-
S73A (stk6)	1.1	4.6	1.1	4.6	1.1	4.6	0.10	-	-
S73B (stk6)									
S90 (stk7)	0.4	1.8	0.4	1.8	0.4	1.8	0.10	-	-
S113 (stk10)	0.6	2.7	0.6	2.7	0.6	2.7	0.10	-	-
S196 (stk12)	0.8	3.6	0.8	3.6	0.8	3.6	N/A	-	-
S197 (stk13)	0.8	3.6	0.8	3.6	0.8	3.6	N/A	-	-
Stk1 ROM Area Dust Collector (Ochoa Processing Plant)	0.21	0.94	0.21	0.94	0.21	0.94	0.04	-	-
Stk 2 Crusher Area Dust Collector (Ochoa Processing Plant)	0.6	2.6	0.6	2.6	0.6	2.6	0.04	-	-

Table 106.B: Allowable Emissions for TSP, PM10, PM2.5, and H2S

Unit No.	TSP pph	TSP tpy	PM ₁₀ pph	PM ₁₀ tpy	PM _{2.5} pph	PM _{2.5} tpy	TSP gr/dscf ⁵ (20.2.19 NMAC)	H2S pph	H2S tpy
Stk 5 SOP Area Dust Collector (Ochoa Processing Plant)	1.8	8.0	1.8	8.0	1.8	8.0	0.04	-	-
Stk 8 Langbeinite Area Dust Collector (Ochoa Processing Plant)	0.8	3.3	0.8	3.3	0.8	3.3	0.04	-	-
Stk 9 Langbeinite Compactor Dust Collector (Ochoa Processing Plant)	0.7	3.0	0.7	3.0	0.7	3.0	0.04	-	-
Stk 11 Jal Loadout Facility Dust Collector (Jal Loadout Facility)	1.5	6.8	1.5	6.8	1.5	6.8	0.04	-	-
S200A, B	-	-	-	-	-	-	-	1.6	7.1

1. For Title V facilities, the Title V annual fee assessments are based on the sum of allowable tons per year emission limits in Table 106.A and 106.B.

2. “-” indicates the application represented emissions of this pollutant are not expected.

3. “<” indicates the application represented uncontrolled emissions are less than 1.0 pph or 1.0 tpy for this pollutant. Allowable limits are not imposed on this level of emissions, except for flares and pollutants with controls.

4. The pph emission limits for combustion sources (dryers, calciners, and boilers) includes both condensable and filterable particulate matter emissions. The gr/dscf emission limits for potash processing dust collectors includes only filterable particulate matter emissions.

5. The 20.2.19 NMAC gr/dscf emission limits for all units include only filterable particulate matter and are in accordance with 20.2.19.109.A(1) and (2) NMAC.

- B. Boilers S196 and S197 are subject to NSPS at 40 CFR 60, Subpart Db. The units are required to meet the NO_x emission standard at 40 CFR 60.44b(a)(1)(i).

- C. Gasoline Dispensing Tanks, Units OPTNKGAS and JALTNKGAS, are subject to National Emissions Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR 63, Subpart CCCCCC (6-C). These units are required to meet work place standards and general duties at 40 CFR 63.11115 and 63.11116.
- D. BEP or best engineering practices applies to all potash, salt or sodium process equipment, and means, with respect to control of fugitive particulate matter emissions, the installation and use of hoods, enclosures, ducts, covers, sprays, or other equipment or measures on potash, salt or sodium sulfate processing equipment as necessary to prevent particulate matter from becoming airborne. BEP shall be applied according to 20.2.19.110.B NMAC

A107 Facility: Allowable Startup, Shutdown, & Maintenance (SSM)

- A. Separate allowable Start up, Shut down, and Maintenance (SSM) emission limits are not required for this facility since the SSM emissions are predicted to be less than the limits established in Tables 106A and 106.B. The permittee shall maintain records in accordance with Condition B109.C.

A108 Facility: Operating Hours and Limits on Potash Raw Ore Feed Rate, Process Rates, and Loadout Rates

- A. **Facility Operating Hours:** This facility is authorized for continuous hours of operation. No monitoring, recordkeeping, and reporting are required to demonstrate compliance with continuous hours of operation.
- B. Raw Ore Feed Rate and Crushing Throughput Limit (Raw Ore and Crushing Circuits)

Requirement: To demonstrate compliance with the ton per hour (tph) and ton per year (tpy) raw ore feed rates and crushing circuit process rates represented in the permit application, these raw ore feed rate limits shall be met:

- 1) Belt Conveyor UG #2 (Unit S2): 550.4 (tph) and 4,821,592.0 tpy.

The tph limit is based on a 24-hour average.

The tpy limit means tons per 12 months and is based on a monthly rolling 12-month total.

Each 24-hour period shall begin at 12 midnight. 24-hour average is defined as the total tons of material processed during each 24-hour period divided by the total operating hours during that 24-hour period. The permittee shall not include any non-operation hours, but if operations occur during a portion of an hour the entire hour (60 minutes) may be included in the 24-hour average.

Monitoring: At all times of operation, the permittee shall monitor the ton per hour (tph) and ton per year (tpy) feed rates using a weight scale at belt conveyor UG#2 (Unit S2).

The weight scale(s) shall be capable of measuring the totalized throughput in tons per hour and of transmitting the data to a data capture system.

Recordkeeping: The following records shall be kept.

- 1) Hourly data capture system records of the tph rates measured by the weight scale
- 2) Total operating hours per 24-hour period
- 3) During the first 12-months of monitoring, records of the tph rates based on a 24-hr average, the cumulative total tons of material processed, and the calculations used to determine those values

4) After the first 12-months of monitoring, records of the tph rates based on a 24-hr average, of the tpy rates based on a monthly rolling 12-month total, and the calculations used to determine those values

Reporting: The permittee shall report according to Section B110.

C. Ochoa Processing Plant Loading Circuit to Storage at Jal Loadout Facility

Requirement: To demonstrate compliance with the ton per day (tpd) and ton per year (tpy) product production and load-out rates represented in the permit application, the following loadout rates shall be met.

Maximum daily and Annual Production Limits for the Facility:

- 1) Granular SOP Loading Bulk Weigher (S126): 1186.6 tpd and 433,094.0 tpy
- 2) Standard SOP Loading Bulk Weigher (S129): 1531.7 tpd and 559,063.0 tpy
- 3) Soluble SOP Loading Bulk Weigher (S132): 296.4 tpd and 108,186.0 tpy
- 4) Granular Langbeinite Bulk Weigher (S135): 1021.9 tpd and 373,001.0 tpy

The tons per day limit is based on a 24-hour period starting at 12 midnight.

The tpy limit means tons per 12 months and is based on a monthly rolling 12-month total per unit.

Monitoring:

At all times of operation, the permittee shall monitor the ton per day and ton per year loadout rates using a weight scale at the following locations:

- 1) for S126, at the Granular SOP Belt Conveyor (S124)
- 2) for S129, at the Standard SOP Belt Conveyor (S127)
- 3) for S132, at the Soluble SOP Belt Conveyor (S130)
- 4) for S135, at the Granular Langbeinite Belt Conveyor (S133)

The weight scale(s) shall be capable of measuring the totalized throughput in tons per hour and of transmitting the data to a data capture system.

Recordkeeping: The following records shall be kept.

- 1) Daily data capture system records of the tpd rates measured by the weight scale
- 2) During the first 12-months of monitoring, records of the tpd rates, the cumulative total tons of material processed, and the calculations used to determine those values
- 3) After the first 12-months of monitoring, records of the tpd rates, of the tpy rates based on a monthly rolling 12-month total, and the calculations used to determine those values
- 4) Records of the type of material being loaded out (Granular SOP, Standard SOP, Soluble SOP, or Granular Langbeinite)

Reporting: The permittee shall report according to Section B110.

D. Jal Loadout Facility – Product Load-out and Distribution

Requirement: To demonstrate compliance with the ton per day (tpd) and ton per year (tpy)

process rates from storage to loadout at the Jal Loadout Facility represented in the permit application, the following rates shall be met.

Product Received from Jal Loadout Facility Storage

- 1) SOP Reclaim Belt Conveyor (S145A) plus Standard SOP Reclaim Belt Conveyor (S145B) Combined: 3014.7 tpd and 1,100,343.6 tpy
- 2) Granular Langbeinite Reclaim Belt Conveyors #2 and #3 (S166A and S166B) Combined: 1021.9 tpd and 373,000.8 tpy

Product Load-out to Rail Car:

- 3) SOP and Granular Langbeinite Loading Bulk Weighers (S154 and S172) Combined: 11,500 tpd
- 4) SOP Loading Bulk Weigher (S154): 1,100,343.6 tpy
- 5) Granular Langbeinite Loading Bulk Weigher (S172): 373,000.8 tpy

The tpd limits are based on a 24-hour period starting at 12 midnight.

The tpy limits means tons per 12 months and is based on a monthly rolling 12-month total per unit.

Monitoring:

Product from Storage:

At all times of operation, the permittee shall monitor the ton per day and ton per year rates to each unit using the weight scales at each belt conveyor.

Product Load-out to Rail Car:

At all times of operation, the permittee shall monitor the ton per day and ton per year rates of each railcar loading using the weight scale at each bulk weigher.

The weight scale(s) shall be capable of measuring the totalized throughput in tons per hour and of transmitting the data to a data capture system.

Recordkeeping: The following records shall be kept.

Product Received and Product Loadout:

- 1) Daily data capture system records of the tpd rates measured by the weight scale
- 2) During the first 12-months of monitoring, records of the tpd rates, the cumulative total tons of material processed, and the calculations used to determine those values
- 3) After the first 12-months of monitoring, records of the tpd rates, of the tpy rates based on a monthly rolling 12-month total, and the calculations used to determine those values
- 5) Record of the type of material being handled (SOP Product or Langbeinite Product)

Reporting: The permittee shall report according to Section B110.

E. Jal Loadout Facility – Fines Return to Ochoa Processing Plant SOP Drying and Sizing Circuit and Langbeinite Drying and Sizing Circuit

Requirement: To demonstrate compliance with the ton per day (tpd) and ton per year (tpy)

process rates of fines return leaving Jal Loadout Facility and received at the SOP Drying and Sizing Circuit and at the Langbeinite Drying and Sizing Circuit represented in the permit application, the following process rates shall be met.

- 1) SOP Fines Return Belt Feeder (Unit S57): 90.5 tpd and 33,010.3 tpy
- 2) Langbeinite Fines Return Belt Feeder (Unit S94): 30.7 tpd and 11,190.0 tpy

The tpd limits are based on a 24-hour period starting at 12 midnight.

The tpy limits means tons per 12 months and is based on a monthly rolling 12-month total per unit.

Monitoring:

At all times of operation, the permittee shall monitor the ton per day and ton per year rates for each unit using truck scales that measure the weight of the trucks that return fines to the Ochoa Processing Plant.

- 1) The permittee shall record the time and date when SOP and Langbeinite fines are loaded out from SOP Reclaim Off-Size Bin (Unit S156) and/or from the Langbeinite Reclaim Off-Size Bin (Unit S173). These bins are located at the Jal Loadout Facility.
- 2) The tons of fines returned to the Ochoa Processing Plant shall be weighed using the truck scale(s) located at the Ochoa Processing Plant.
- 3) The truck scale(s) shall be capable of measuring the total tons, of recording the date and time of each weighing, and of transmitting the data to a data capture system.

Recordkeeping: The following records shall be kept.

- 1) Data capture system records of the truck scale measurements
- 2) Records of the weight of each empty truck, of the difference between the weight of the empty truck and truck scale measurement, and of the date and time each truck is weighed
- 3) The time and date when SOP and Langbeinite fines are loaded out from the SOP Reclaim Off-Size Bin (Unit S156) and/or from the Langbeinite Reclaim Off-Size Bin (Unit S173)
- 4) During the first 12-months of monitoring, records of the tpd rates, the cumulative total tons of material processed, and the calculations used to determine those values
- 5) After the first 12-months of monitoring, records of the tpd rates, of the tpy rates based on a monthly rolling 12-month total, and the calculations used to determine those values
- 6) Record of the type of material being handled (SOP Fines or Langbeinite Fines)

Reporting: The permittee shall report according to Section B110.

F. Gypsum Waste and Tailing Circuit

Requirement: To demonstrate compliance with the ton per hour (tph) and ton per year (tpy) process rates at the Gypsum Waste and Tailing Circuit, the following process rates shall be met.

- 1) Stage 2 Leach Belt Conveyor to Gypsum Surge Bin (Units S175 or S176): 338.7 (tph) and 2,966,924.4 tpy

The tph limit is based on a 24-hour average.

The tpy limit means tons per 12 months and is based on a monthly rolling 12-month total.

Each 24-hour period shall begin at 12 midnight. 24-hour average is defined as the total tons of material processed during each 24-hour period divided by the total operating hours during that 24-hour period. The permittee shall not include any non-operation hours, but if operations occur during a portion of an hour the entire hour (60 minutes) may be included in the 24-hour average.

Monitoring: At all times of operation, the permittee shall monitor the ton per hour and ton per year process rates using a weight scale at the belt conveyor or at the surge bin.

The weight scale(s) shall be capable of measuring the totalized throughput in tons per hour and of transmitting the data to a data capture system.

Recordkeeping: The following records shall be kept.

- 1) Hourly data capture system records of the tph rates measured by the weight scale
- 2) Total operating hours per 24-hour period
- 3) During the first 12-months of monitoring, records of the tph rates based on a 24-hr average, the cumulative total tons of material processed, and the calculations used to determine those values
- 4) After the first 12-months of monitoring, records of the tph rates based on a 24-hr average, of the tpy rates based on a monthly rolling 12-month total, and the calculations used to determine those values

Reporting: The permittee shall report according to Section B110.

A109 Facility: Reporting Schedules

- A. The permittee shall report according to the Specific Conditions and General Conditions of this permit.

A110 Facility: Fuel and Fuel Sulfur Requirements

- A. Fuel and Fuel Sulfur Requirements - Units S18A, S18B, S18C, S34, S73A, S73B, S90, S113, S196, and S197

Requirement: To demonstrate compliance with the allowable SO₂ emission limits in Table 106.B and with 40 CFR 60, Subpart Db exemptions, combustion emission Units S18A, S18B, S18C, S34, S73A, S73B, S90, S113, S196, and S197 shall combust only natural gas containing no more than **1.0 grain** of total sulfur per 100 dry standard cubic feet.

This requirement demonstrates compliance with the 40 CFR 60, Subpart Db particulate matter and SO₂ exemption for Units S196 and S197; and with the SO₂ emission limits for the Dryers, Calciners, and Boilers in Table 106.A.

Monitoring: Compliance is demonstrated through recordkeeping.
Recordkeeping: 1) The permittee shall demonstrate compliance with the natural gas fuel type and limit on total sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the natural gas that specifies the total sulfur limit. 2) Alternatively, compliance may be demonstrated by keeping a receipt or invoice from a commercial fuel supplier or by completing an extended fuel gas analysis. If a fuel gas analysis is used, the analysis shall not be older than one year.
Reporting: The permittee shall report in accordance with Section B110.

A111 Facility: 20.2.61 NMAC Opacity

A. 20.2.61 NMAC Opacity Limit - Units S196 and S197

Requirement: In accordance with 20.2.61 NMAC, visible emissions from the Boilers' emission stacks shall not equal or exceed an opacity of 20 percent. Use of natural gas fuel constitutes compliance with 20.2.61 NMAC unless opacity equals or exceeds 20% averaged over a 10-minute period.
Monitoring: Once every 6-months during operations, the permittee shall perform a visible emissions check for 10 minutes on each emissions stack using EPA Reference Method 22. If visible emissions are observed, the opacity shall be measured from that stack over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC. For 20.2.61 NMAC, the permittee may elect to complete an EPA Reference Method 9 opacity test only and not also complete the EPA Reference Method 22 observation.
Recordkeeping: In accordance with EPA Reference Methods 22 or 9, the permittee shall record the visible emissions checks (Method 22) and/or opacity measures (Method 9) and the corresponding results.
Reporting: The permittee shall report in accordance with Section B110.

EQUIPMENT SPECIFIC REQUIREMENTS

A200 Oil and Gas Industry

A300 Construction Industry – Aggregate

A400 Construction Industry – Asphalt

A500 Construction Industry – Concrete

A600 Power Generation Industry

A700 Solid Waste Disposal (Landfills) Industry– Not Required

MINING INDUSTRY

A800 Mining Industry

A801 Dryers, Calciners, and Boilers

A. 40 CFR 60, Subpart Db – Boilers S196 and S197

<p>Requirement: Boilers S196 and S197 are subject to NOx emission standards in 40 CFR 60, Subpart Db. The permittee shall comply with all applicable requirements of 40 CFR 60, Subparts A and Db.</p>

<p>Meeting the fuel type and fuel sulfur requirements in Condition A110.A, exempts the units from the SO2 and PM emission standards in Subpart Db.</p>
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<p>Monitoring: The permittee shall comply with all applicable monitoring and testing requirements of 40 CFR 60.46b.</p>
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<p>Testing may be completed during the initial Compliance Tests required by Condition A801.B if it also meets the requirements of 40 CFR 60, Subparts A and Db.</p>

<p>Recordkeeping: The permittee shall comply with the recordkeeping requirements of 40 CFR 60.49b.</p>

<p>Reporting: The permittee shall report in accordance with Section B110 and according to 40 CFR 60.49b.</p>

B. NOx and CO Initial Compliance Tests – Units S18A, S18B, S18C, S34, S73A & S73B (Stk6), S90, S113, S196, and S197

<p>Requirement:</p>

<p>1) To demonstrate compliance with the NO_x, CO, and VOC emission limits in Table 106.A, the permittee shall perform initial compliance tests for NO_x and CO on unit stacks S18A, S18B, S18C, S34, S73A, S73B, S90, S113, S196, and S197. These tests shall be completed in accordance with Section B111.</p>
<p>2) Test results that demonstrate compliance with the CO emission limits shall also be considered to demonstrate compliance with the VOC emission limits.</p>
<p>3) NO_x compliance tests may be completed at the same time as the 40 CFR 60, Subpart Db testing if it also meets the requirements of 40 CFR 60, Subpart Db.</p>
<p>Monitoring: The permittee shall meet the testing requirements in Section B111 of this permit.</p>
<p>Recordkeeping: The permittee shall maintain records in accordance with the applicable Sections in B109, B110, and B111.</p>
<p>Reporting:</p> <p>1) The test report shall summarize the records required by this condition.</p> <p>2) The permittee shall report in accordance with the applicable Sections in B109, B110, and B111.</p>

C. PM (as TSP), PM₁₀, and PM_{2.5} Initial Compliance Tests – Units S18A, S18B, S18C, S34, S73A & S73B (Stk6), S90, and S113

<p>Requirement:</p> <p>1) To demonstrate compliance with the TSP, PM₁₀, and PM_{2.5} emission limits in Table 106.B, the permittee shall perform initial compliance tests using EPA Reference Method 5 for Filterable TSP and EPA Reference Method 202 for Condensable PM (CPM) on unit stacks S18A, S18B, S18C, S34, S73A, S73B, S90, and S113. The tests shall be completed in accordance with Section B111.</p> <p>2) Test results of filterable TSP from Method 5 and CPM from Method 202 shall be combined to verify compliance with allowable TSP, PM₁₀, and PM_{2.5} pph, tpy. Compliance with the TSP emission limit shall be deemed to demonstrate compliance with PM₁₀ and PM_{2.5} emission limits.</p> <p>3) EPA Reference Method 5 test results, which measures filterable particulate matter, shall be used to demonstrate compliance with the 20.2.19 NMAC gr/dscf limit in Table 106.B. The 20.2.19 NMAC gr/dscf limit applies only to filterable particulate matter and does not apply to CPM.</p>
<p>Monitoring:</p> <p>1) The permittee shall monitor the following during each test run:</p> <ul style="list-style-type: none"> (a) the tph production rate (b) the volumetric stack flow rate (c) the baghouse pressure drop
<p>Recordkeeping:</p> <p>1) During each test run, test records shall include:</p>

<p>(a) the tph production rate;</p> <p>(b) the pph and gr/dscf emission rates of filterable TSP and CPM;</p> <p>(c) the combined Filterable TSP plus CPM, pph and gr/dscf emission rates;</p> <p>(d) the volumetric stack flow rate;</p> <p>(e) and the baghouse pressure drop.</p> <p>2) All calculations used to determine emission rates shall be included with the test records.</p> <p>3) The permittee shall maintain records in accordance with the applicable Sections in B109, B110, and B111.</p>
<p>Reporting:</p> <p>1) The test report shall summarize the records required by this condition.</p> <p>2) The permittee shall report in accordance with the applicable Sections in B109, B110, and B111.</p>

D. PM (as TSP), PM10, and PM2.5 Initial Compliance Tests – Units S196 and S197

<p>Requirement:</p> <p>1) To demonstrate compliance with the TSP, PM10, and PM2.5 emission limits in Table 106.B, the permittee shall perform initial compliance tests using EPA Reference Method 5 for Filterable TSP and EPA Reference Method 202 for Condensable PM (CPM) on unit stacks S196 and S197. These tests shall be completed in accordance with Section B111.</p> <p>2) Test results of filterable TSP from Method 5 and CPM from Method 202 shall be combined to verify compliance with allowable TSP, PM10, and PM2.5 pph, tpy. Compliance with the TSP emission limit shall be deemed to demonstrate compliance with PM10 and PM2.5 emission limits.</p>
<p>Monitoring: The permittee shall meet the testing requirements in Section B111 of this permit.</p>
<p>Recordkeeping:</p> <p>1) During each test run, test records shall include:</p> <p>(a) the pph emission rates of filterable TSP and CPM;</p> <p>(b) and the combined Filterable TSP plus CPM pph emission rates.</p> <p>2) The permittee shall maintain records in accordance with the applicable Sections in B109, B110, and B111</p>
<p>Reporting:</p> <p>1) The test report shall summarize the records required by this condition.</p> <p>2) The permittee shall report in accordance with the applicable Sections in B109, B110, and B111.</p>

E. 20.2.19 NMAC Periodic Emissions Tests - Units S18A, S18B, S18C, S34, S73A & S73B (Stk6), S90, and S113

<p>Requirement:</p> <p>1) To demonstrate compliance with the grain loading (gr/dscf) limit required by 20.2.19.109(A)(1) NMAC and reflected in Table 106.B, the permittee shall perform periodic</p>

emissions tests for TSP as follows:

- (a) every calendar year on one of units S18A, S18B, S18C
- (b) every calendar year on S73A and S73B (Stk 6)
- (c) every two calendar years on units S90 and S113

2) These tests shall be completed using EPA Reference Method 5 and in accordance with Section B111.

3) EPA Reference Method 5 tests, which measures filterable particulate matter, shall be used to demonstrate compliance with the 20.2.19 NMAC gr/dscf limit. The 20.2.19 NMAC gr/dscf limit applies only to filterable particulate matter.

4) The first periodic test shall be required during the first calendar year after completion of the initial EPA Reference Method 5 compliance test required in Condition [A801.C](#).

Monitoring:

- 1) The permittee shall monitor the following during each test run:
- (a) the tph production rate
 - (b) the volumetric stack flow rate
 - (c) the baghouse pressure drop

Recordkeeping:

- 1) During each test run, test records shall include:
- (a) the tph production rate;
 - (b) the filterable TSP emission rates in gr/dscf;
 - (c) the volumetric stack flow rate;
 - (d) and the baghouse pressure drop.
- 2) All calculations used to determine emission rates shall be included with the test records.
- 3) The permittee shall maintain records in accordance with the applicable Sections in B109, B110, and B111.

Reporting:

- 1) The test report shall summarize the records required by this condition.
- 2) The permittee shall report in accordance with the applicable Sections in B109, B110, and B111.

F. Operational Inspection - Units S18A, S18B, S18C, S34, S73A & S73B (Stk6), S90, S113, S196, and S197

Requirement:

- 1) To demonstrate compliance with the emission limits in Table 106.A, the permittee shall perform operational inspections of these units S18A, S18B, S18C, S34, S73A & S73B (Stk6), S90, S113, S196, and S197.

Monitoring:

The permittee shall conduct the following operational inspections on the following schedule:

- Once per Week for Units S18A, S18B, and S18C
- Once per Month for Units S196 and S197
- Once per Year for Units S34, S73A, S73B, S90, and S113

Operational inspections shall be completed to determine that the units are operating properly. The operational inspections shall include checks for indications of insufficient excess air, or too much excess combustion air. These operational checks shall include observation of common physical indications of improper combustion, including indications specified by the manufacturer, and indications based on operational experience with these units.

Recordkeeping: The permittee shall maintain records of excess combustion air to include the fuel flow rate and firing box temperature. If an electronic O₂ sensor is used, records shall be kept of instrument calibration data, and the make and model of the instrument. If an ORSAT apparatus or other gas absorption analyzer is used, the permittee must record all calibration results. The permittee shall maintain records in accordance with Section B109.

Reporting: The permittee shall report according to Condition B110.

G. Burner Specifications – Units S18A, S18B, S18C, S196, and S197

Requirement: To demonstrate compliance with the NO_x emission limits in Table 106.A, the permittee shall meet the following burner specifications for units S18A, S18B, S18C, S196, and S197:

1) Units S18A, S18B, and S18C: Ultra Low-NO_x, pre-mix type burner with multi-stage recirculation

2) Units S196 and S197: Ultra Low-NO_x with Flue Gas Recirculation

Monitoring: Compliance shall be demonstrated through records.

Recordkeeping: The permittee shall maintain records of the burner specifications for each unit for each unit's entire operating life at the Ochoa Processing Plant.

Reporting: The permittee shall report according to Section B110.

H. Baghouse Control Requirements – Units S18A, S18B, S18C, S34, S73A & S73B (stk6), S90, and S113

Requirement: To demonstrate compliance with the TSP, PM₁₀, and PM_{2.5} control requirements in Table 105 and with the emission limits in Table 106.B, the permittee shall meet the following control requirements.

1) At all times of operation, the following unit emission stacks shall be routed to and particulate matter emissions controlled with a baghouse:

S18A, S18B, S18C, S34, S73A & S73B (stk6), S90, and S113.

2) The permittee shall verify that baghouses are started and working properly before commencing operations.

Monitoring:

The permittee shall monitor the following parameters:

1) daily visual readings of the pressure drop value from the magnehilic/photohelic gauges, and

<p>2) weekly visible emissions monitoring of each stack equipped with a baghouse during operations.</p> <p>3) Each visible emissions monitoring shall be completed for a minimum of 6 minutes and according to EPA Reference Method 22 found in 40 CFR 60, Appendix A.</p>
<p>Recordkeeping:</p> <p>1) For each unit, the following records shall be kept:</p> <ul style="list-style-type: none"> (a) the unit number, the stack ID, and the control ID; (b) the manufacturer’s recommended pressure drop and the pressure drop measured during the most recent TSP and CPM stack tests; (c) the daily baghouse pressure drop readings, including the date and time of each reading; (d) and the results of the weekly 6-minute Method 22 visible emissions observations, including the date of each observation, and all records required by EPA Reference Method 22 in 40 CFR 60, Appendix A. <p>2) The permittee shall maintain records in accordance with Section B109.</p>
<p>Reporting: The permittee shall report according to Section B110.</p>

A802 Potash Processing – Stack Sources

- A. TSP, PM10, and PM2.5 Initial Compliance Tests – Stacks Stk1, Stk2, Stk5, Stk8, Stk9, and Stk11

<p>Requirement:</p> <p>1) To demonstrate compliance with the TSP, PM10, and PM2.5 emission limits in Table 106.B, the permittee shall perform initial compliance tests using EPA Reference Method 5 for TSP on Stacks Stk1, Stk2, Stk5, Stk8, Stk9, and Stk11. These tests shall be completed in accordance with Section B111.</p> <p>2) Compliance with the TSP emission limit shall be deemed to demonstrate compliance with PM10 and PM2.5 emission limits.</p>
<p>Monitoring:</p> <p>1) The permittee shall monitor the following during each test run:</p> <ul style="list-style-type: none"> (a) the tph production rate (b) the volumetric stack flow rate (c) the baghouse pressure drop
<p>Recordkeeping:</p> <p>1) During each test run, test records shall include:</p> <ul style="list-style-type: none"> (a) the tph production rate; (b) the pph and gr/dscf emission rates of filterable TSP; (c) the volumetric stack flow rate; (d) and the baghouse pressure drop. <p>2) All calculations used to determine emission rates shall be included with the test records.</p> <p>3) The permittee shall maintain records in accordance with the applicable Sections in B109,</p>

B110, and B111.
<p>Reporting:</p> <p>1) The test report shall summarize the records required by this condition.</p> <p>2) The permittee shall report in accordance with the applicable Sections in B109, B110, and B111.</p>

B. 20.2.19 NMAC and pph Periodic Emissions Tests - Stacks Stk1, Stk2, Stk5, Stk8, Stk9, and Stk11

<p>Requirement:</p> <p>1) To demonstrate compliance with the pph and grain loading (gr/dscf) limits required by 20.2.19.109(A)(1) NMAC in Table 106.B, the permittee shall perform annual periodic emissions tests using EPA Reference Method 5 on Stacks Stk1, Stk2, Stk5, Stk8, Stk9, and Stk11.</p> <p>2) These tests shall be completed in accordance with Section B111.</p> <p>3) The first periodic test shall be required during the first calendar year after completion of the initial EPA Reference Method 5 compliance test required in Condition A802.A.</p>
<p>Monitoring:</p> <p>1) The permittee shall monitor the following during each test run:</p> <ul style="list-style-type: none"> (a) the tph production rate (b) the volumetric stack flow rate (c) the baghouse pressure drop
<p>Recordkeeping:</p> <p>1) During each test run, test records shall include:</p> <ul style="list-style-type: none"> (a) the tph production rate; (b) the filterable TSP emission rates in pph and in gr/dscf; (c) the volumetric stack flow rate; (d) and the baghouse pressure drop. <p>2) All calculations used to determine emission rates shall be included with the test records.</p> <p>3) The permittee shall maintain records in accordance with the applicable Sections in B109, B110, and B111.</p>
<p>Reporting:</p> <p>1) The test report shall summarize the records required by this condition.</p> <p>2) The permittee shall report in accordance with the applicable Sections in B109, B110, and B111.</p>

C. Baghouse Control Requirements – Stacks Stk1, Stk2, Stk5, Stk8, Stk9, and Stk11

<p>Requirement: To demonstrate compliance with the TSP, PM10, and PM2.5 control requirements in Table 105 and emission limits in Table 106.B, the permittee shall meet the following control requirements.</p> <p>1) At all times of operation, the following unit emission stacks shall be routed to and</p>
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<p>particulate matter emissions controlled with a baghouse: Stacks Stk1, Stk2, Stk5, Stk8, Stk9, and Stk11</p> <p>2) The permittee shall verify that baghouses are started and working properly before commencing operations.</p>
<p>Monitoring: The permittee shall monitor the following parameters: 1) daily visual readings of the pressure drop value from the magnehilic/photohelic gauges, and 2) weekly visible emissions monitoring of each stack equipped with a baghouse during operations. 3) Each visible emissions monitoring shall be completed for a minimum of 6 minutes and according to EPA Reference Method 22 found in 40 CFR 60, Appendix A.</p>
<p>Recordkeeping: 1) For each unit, the following records shall be kept: (a) the unit number, the stack ID, and the control ID; (b) the manufacturer’s recommended pressure drop and the pressure drop measured during the most recent TSP stack tests; (c) the daily baghouse pressure drop readings, including the date of each reading; (d) and the results of the weekly 6-minute Method 22 visible emissions observations, including the date of each observation, and all records required by EPA Reference Method 22 in 40 CFR 60, Appendix A. 2) The permittee shall maintain records in accordance with Section B109.</p>
<p>Reporting: The permittee shall report according to Section B110.</p>

A803 Fugitive Sources – Potash Material Handling and Haul Roads

A. Fugitive Emissions Control Requirements for Sources Subject to 20.2.19.110 NMAC and Table 105 Controls for TSP, PM10, PM2.5

<p>Requirement 1) To demonstrate compliance with 20.2.19.110.B NMAC and with the TSP, PM10, and PM2.5 control requirements in Table 105, the permittee shall meet the fugitive particulate matter emission control requirements for fugitive sources associated with potash material handling equipment in Table 105. 2) Control requirements in Table 105 and covered by this condition include routing fugitive sources to a stack with a baghouse, or controlling fugitive emissions with full building enclosure, covers, application of de-dusting oil, retractable loading spouts, and/or wetting of stock piles. 3) These requirements apply to all fugitive particulate matter emission sources except the haul roads.</p>
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4) At any time, the permittee may install additional or more effective fugitive particulate matter controls than those listed in Table 105 as long as adding or changing the controls do not result in an increase in stack emissions, fugitive emissions, and/or increase the ambient impact from repositioning an emission source. If emissions or the ambient impact are not increased, then this change will not require a 20.2.72 NMAC preconstruction permit. However, the permittee shall maintain accurate records to demonstrate that any changes to fugitive particulate matter controls did not require a 20.2.72 NMAC preconstruction permit.

20.2.19.110.B NMAC states that “the owner or operator of potash, salt or sodium sulfate processing equipment shall not permit, cause, suffer or allow emissions of particulate matter to the atmosphere except through stacks equipped with sampling ports and platforms in such number, location and size to allow accurate sampling to be performed..... when it is not feasible to direct certain emissions through a stack, the owner or operator must utilize best engineering practices to minimize the release of fugitive particulate matter emissions to the atmosphere”.

Monitoring:

1) The permittee shall complete an initial inspection once construction is complete and then at least semi-annually while the facility is operating, the fugitive emission sources listed in Table 105 to ensure that they are controlled in accordance with Best Engineering Practices (BEP) as defined in 20.2.19.7.A NMAC and according to the control requirements in Table 105.

BEP means, with respect to control of fugitive particulate matter emissions, the installation and use of hoods, enclosures, ducts, covers, sprays, or other equipment or measures on potash, salt or sodium sulfate processing equipment as necessary to prevent particulate matter from becoming airborne.

2) At a minimum, the initial and semi-annual inspections shall include visual checks for malfunctions and deficiencies in dust control requirements and effectiveness, such as breaches in the physical barriers controlling dust emissions and/or controls not meeting the minimum requirements in Table 105.

3) If the source is found not to be compliant with BEP or Table 105, then the permittee shall take the necessary action to make the unit compliant no later than 60 days after the finding of non-compliance.

Recordkeeping:

1) At a minimum, inspection records shall include a description of the inspections, the dates of inspections, the process area or circuit inspected, malfunctions or deficiencies found, the repairs made, and the date of repairs.

2) The permittee shall keep records of the dates of and any changes made to fugitive emissions controls; and of the records documenting that the change in fugitive emissions controls did not increase stack emissions, fugitive emissions, and/or the ambient impact.

<p>2) Records shall be kept according to Section B109.</p>
<p>Reporting:</p> <p>1) The permittee shall report in accordance with Section B110.</p> <p>2) The permittee shall make available to Department personnel upon request, the records for any changes to fugitive emissions controls and the records used to determine that any changes to fugitive emissions control did not increase emissions, ambient impact, or require a 20.2.72 NMAC preconstruction permit.</p>

B. Best Housekeeping Practices Plan

<p>Requirement: To prevent the re-suspension of process fugitive dust during wind events, the permittee shall develop and implement a best housekeeping practices plan for the facility.</p> <p>At a minimum, the plan shall address clean up and proper disposal of potash dust deposited on processing equipment, structures housing processing equipment, or on the ground in work areas within the Ochoa Processing Plant and the Jal Loadout Properties.</p> <p>The permittee shall finalize and start implementing the plan within 60 days of beginning potash processing for commercial sale.</p>
<p>Monitoring: Inspections according to the best housekeeping practices plan.</p> <p>At a minimum, inspections shall check for any spills on the ground or on process equipment that are in operation, be completed daily, and use an inspection checklist/form (or be incorporated into another inspection/monitoring type of form).</p>
<p>Recordkeeping: According to the best housekeeping practices plan.</p> <p>Plan changes shall be documented within 60 days of the change.</p> <p>Records shall be kept according to Section B109.</p>
<p>Reporting:</p> <p>For approval by the department, the permittee shall submit the plan to the Permit Program Manager within 60 days of beginning potash processing for commercial sale. Within 60 days, the department shall notify the permittee of any disapproved or approved sections of the plan and shall require plan revisions and resubmittal of disapproved sections.</p> <p>Any subsequent changes to an approved plan shall be made available to Department personnel upon request for review.</p> <p>The permittee shall also report according to Section B110.</p>

C. Unpaved Haul Road Control Requirements – Units S194 and S195

<p>Requirement: To demonstrate compliance with the control requirements in Table 105, the</p>
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<p>Waste/Tailings unpaved haul road (S194) at the Ochoa Processing Plant and all haul roads at the Jal Loadout Facility (S195) shall be treated with the application of chemical suppressant or surfactant to minimize fugitive particulate matter from the haul roads.</p> <p>This control measure shall be used on haul roads as far as the nearest public road.</p> <p>At any time, the permittee may pave these roads without prior authorization from the Air Quality Bureau. However, if any of these roads are paved, the requirements, monitoring, and records of Condition A803.C apply.</p>
<p>Monitoring: The permittee shall monitor the frequency, quantity, and location(s) of the suppressant/surfactant application.</p>
<p>Recordkeeping: The permittee shall keep weekly records of the frequency, quantity, and location(s) of the suppressant/surfactant application. If suppressant/surfactant was not applied/re-applied during a week, the permittee shall record the reason(s) why.</p>
<p>Reporting: The permittee shall report according to Section B110.</p>

D. Paved Haul Road Control Requirements – Units S189/S190 and S191/S192/S193

<p>Requirement: To demonstrate compliance with the control requirements in Table 105, the Product/Recycle Haul Road (S189/S190) and the Delivery Haul Road (S191/S192/S193) at the Ochoa Processing Plant, shall be paved and swept or cleaned by some other method, to minimize fugitive particulate matter emissions from the haul roads.</p> <p>This control measure shall be used on haul roads as far as the nearest public road.</p> <p>See Section C103 at the end of this permit for a map of the Ochoa Processing Plant haul roads and their controls.</p>
<p>Monitoring: The permittee shall monitor the paved haul roads to determine when the paving needs to be repaired or maintained and when the haul roads need to be cleaned to remove dust and/or soil in order to minimize fugitive particulate matter emissions.</p>
<p>Recordkeeping: The permittee shall keep records of the monitoring required in this condition including the dates that the haul roads are repaired, maintained, and cleaned.</p>
<p>Reporting: The permittee shall report according to Section B110.</p>

A804 Groundwater Pre-Treatment Plant

A. H2S Groundwater Pre-Treatment Requirements – Units S200A,B and SC29

<p>Requirement:</p> <p>1) For Units S200A,B, controlled by Unit SC29, the permittee shall meet the lb/hr and tpy H2S emission limits in Table 106.B.</p> <p>2) The permittee shall install two H2S air strippers (Units 200A,B) to allow for continuous efficient operation when the capacity of the H2S strippers is reduced during cold weather periods.</p>

<p>Monitoring: Monthly while the units are operating, the permittee shall measure the H2S concentration from the biofilter stack (SC29) using a hydrogen sulfide (H2S) meter or analyzer. The meter/analyzer shall be capable of reading an H2S concentration as low as 0 ppmv.</p>
<p>Recordkeeping:</p> <ol style="list-style-type: none"> 1) The permittee shall record the monthly ppmv measurements of H2S from the biofilter stack. 2) The permittee shall convert the ppmv measurements to lb/hr using the biofilter air flow rate specified by the manufacturer and keep records of those calculations. 3) The permittee shall maintain the manufacturer’s specifications and recommended operating procedures for units S200A,B and SC29. 4) The permittee shall maintain the manufacturer’s specifications and calibration procedures of the hydrogen sulfide meter/analyzer.
<p>Reporting: The permittee shall report according to Section B110.</p>

A805 Gasoline Dispensing Tanks

A. 40 CFR 63, Subpart CCCCCC (6-C) – Units OPTNKGAS and JALTNKGAS

<p>Requirement: The tanks associated with the gasoline fuel dispensers at the Ochoa Processing Plant and at the Jal Loadout Facility (Units OPTNKGAS and JALTNKGAS) are subject to 40 CFR 63, Subparts A and CCCCC. The permittee shall meet the requirements of these parts, including the workplace standards and the general duties at 40 CFR 63.11115 and 63.11116.</p>
<p>Monitoring: The permittee shall meet any applicable monitoring required by 40 CFR 63, Subpart CCCCC.</p>
<p>Recordkeeping: The permittee shall meet any applicable recordkeeping requirements that may be required in 40 CFR 63, Subparts A and CCCCC, including records of monthly throughput required at 40 CFR 63.11111(e) and (h).</p>
<p>Reporting: The permittee shall submit any applicable notifications or reports that may be required by 40 CFR 63, Subparts A and CCCCC and shall meet the reporting requirements in Section B110 of this permit.</p>

A806 Property Boundary

- A. **Property Boundary – Ochoa Processing Plant and Jal Loadout Facility** - To ensure compliance with the National Ambient Air Quality Standards, the New Mexico Ambient Air Quality Standards, and PSD increments, the permittee shall install and maintain the property boundary for the Ochoa Processing Plant and for the Jal Loadout Facility with restricted or controlled public access in accordance with those property boundaries used in air dispersion modeling.

PART B GENERAL CONDITIONS**B100 Introduction**

- A. The Department has reviewed the permit application for the proposed construction/modification/revision and has determined that the provisions of the Act and ambient air quality standards will be met. Conditions have been imposed in this permit to assure continued compliance. 20.2.72.210.D NMAC, states that any term or condition imposed by the Department on a permit is enforceable to the same extent as a regulation of the Environmental Improvement Board.

B101 Legal

- A. The contents of a permit application specifically identified by the Department shall become the terms and conditions of the permit or permit revision. Unless modified by conditions of this permit, the permittee shall construct or modify and operate the Facility in accordance with all representations of the application and supplemental submittals that the Department relied upon to determine compliance with applicable regulations and ambient air quality standards. If the Department relied on air quality modeling to issue this permit, any change in the parameters used for this modeling shall be submitted to the Department for review. Upon the Department's request, the permittee shall submit additional modeling for review by the Department. Results of that review may require a permit modification. (20.2.72.210.A NMAC)
- B. Any future physical changes, changes in the method of operation or changes in restricted area may constitute a modification as defined by 20.2.72 NMAC, Construction Permits. Unless the source or activity is exempt under 20.2.72.202 NMAC, no modification shall begin prior to issuance of a permit. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)
- C. Changes in plans, specifications, and other representations stated in the application documents shall not be made if they cause a change in the method of control of emissions or in the character of emissions, will increase the discharge of emissions or affect modeling results. Any such proposed changes shall be submitted as a revision or modification. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)
- D. The permittee shall establish and maintain the property's Restricted Area as identified in plot plan submitted with the application. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)
- E. Applications for permit revisions and modifications shall be submitted to:
Program Manager, Permits Section

New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505

- F. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate the source including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (20.2.7.109, 20.2.72.210.A, 20.2.72.210.B, 20.2.72.210.C, 20.2.72.210.E NMAC) The establishment of allowable malfunction emission limits does not supersede this requirement.

B102 Authority

- A. This permit is issued pursuant to the Air Quality Control Act (Act) and regulations adopted pursuant to the Act including Title 20, Chapter 2, Part 72 of the New Mexico Administrative Code (NMAC), (20.2.72 NMAC), Construction Permits and is enforceable pursuant to the Act and the air quality control regulations applicable to this source.
- B. The Department is the Administrator for 40 CFR Parts 60, 61, and 63 pursuant to the delegation and exceptions of Section 10 of 20.2.77 NMAC (NSPS), 20.2.78 NMAC (NESHAP), and 20.2.82 NMAC (MACT).

B103 Annual Fee

- A. The Department will assess an annual fee for this Facility. The regulation 20.2.75 NMAC set the fee amount at \$1,500 through 2004 and requires it to be adjusted annually for the Consumer Price Index on January 1. The current fee amount is available by contacting the Department or can be found on the Department's website. The AQB will invoice the permittee for the annual fee amount at the beginning of each calendar year. This fee does not apply to sources which are assessed an annual fee in accordance with 20.2.71 NMAC. For sources that satisfy the definition of "small business" in 20.2.75.7.F NMAC, this annual fee will be divided by two. (20.2.75.11 NMAC)
- B. All fees shall be remitted in the form of a corporate check, certified check, or money order made payable to the "NM Environment Department, AQB" mailed to the address shown on the invoice and shall be accompanied by the remittance slip attached to the invoice.

B104 Appeal Procedures

- A. Any person who participated in a permitting action before the Department and who is adversely affected by such permitting action, may file a petition for hearing before the Environmental Improvement Board. The petition shall be made in writing to the Environmental Improvement Board within thirty (30) days from the date notice is given of the Department's action and shall specify the portions of the permitting action to which the petitioner objects, certify that a copy of the petition has been mailed or hand-delivered and attach a copy of the permitting action for which review is sought. Unless a timely request for hearing is made, the decision of the Department shall be final. The petition shall be copied simultaneously to the Department upon receipt of the appeal notice. If the petitioner is not the applicant or permittee, the petitioner shall mail or hand-deliver a copy of the petition to the applicant or permittee. The Department shall certify the administrative record to the board. Petitions for a hearing shall be sent to: (20.2.72.207.F NMAC)

Secretary, New Mexico Environmental Improvement Board
1190 St. Francis Drive, Runnels Bldg. Rm. N2153
Santa Fe, New Mexico 87502

B105 Submittal of Reports and Certifications

- A. Stack Test Protocols and Stack Test Reports shall be submitted electronically to Stacktest.AQB@state.nm.us or as directed by the Department.
- B. Excess Emission Reports shall be submitted as directed by the Department. (20.2.7.110 NMAC)
- C. Routine reports shall be submitted to the mailing address below, or as directed by the Department:

Manager, Compliance and Enforcement Section
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505

B106 NSPS and/or MACT Startup, Shutdown, and Malfunction Operations

- A. If a facility is subject to a NSPS standard in 40 CFR 60, each owner or operator that installs and operates a continuous monitoring device required by a NSPS regulation shall comply with the excess emissions reporting requirements in accordance with 40 CFR 60.7(c), unless specifically exempted in the applicable subpart.

- B. If a facility is subject to a NSPS standard in 40 CFR 60, then in accordance with 40 CFR 60.8(c), emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction shall not be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.
- C. If a facility is subject to a MACT standard in 40 CFR 63, then the facility is subject to the requirement for a Startup, Shutdown and Malfunction Plan (SSM) under 40 CFR 63.6(e)(3), unless specifically exempted in the applicable subpart.

B107 Startup, Shutdown, and Maintenance Operations

- A. The establishment of permitted startup, shutdown, and maintenance (SSM) emission limits does not supersede the requirements of 20.2.7.14.A NMAC. Except for operations or equipment subject to Condition B106, the permittee shall establish and implement a plan to minimize emissions during routine or predictable start up, shut down, and scheduled maintenance (SSM work practice plan) and shall operate in accordance with the procedures set forth in the plan. (SSM work practice plan) (20.2.7.14.A NMAC)

B108 General Monitoring Requirements

- A. These requirements do not supersede or relax requirements of federal regulations.
- B. The following monitoring requirements shall be used to determine compliance with applicable requirements and emission limits. Any sampling, whether by portable analyzer or EPA reference method, that measures an emission rate over the applicable averaging period greater than an emission limit in this permit constitutes noncompliance with this permit. The Department may require, at its discretion, additional tests pursuant to EPA Reference Methods at any time, including when sampling by portable analyzer measures an emission rate greater than an emission limit in this permit; but such requirement shall not be construed as a determination that the sampling by portable analyzer does not establish noncompliance with this permit and shall not stay enforcement of such noncompliance based on the sampling by portable analyzer.
- C. If the emission unit is shutdown at the time when periodic monitoring is due to be accomplished, the permittee is not required to restart the unit for the sole purpose of performing the monitoring. Using electronic or written mail, the permittee shall notify the Department's Compliance and Enforcement Section of a delay in emission tests prior to the deadline for accomplishing the tests. Upon recommencing operation, the permittee shall submit any pertinent pre-test notification requirements set forth in the current version of the Department's

Standard Operating Procedures For Use Of Portable Analyzers in Performance Test, and shall accomplish the monitoring.

- D. The requirement for monitoring during any monitoring period is based on the percentage of time that the unit has operated. However, to invoke the monitoring period exemption at B108.D(2), hours of operation shall be monitored and recorded.
- (1) If the emission unit has operated for more than 25% of a monitoring period, then the permittee shall conduct monitoring during that period.
 - (2) If the emission unit has operated for 25% or less of a monitoring period then the monitoring is not required. After two successive periods without monitoring, the permittee shall conduct monitoring during the next period regardless of the time operated during that period, except that for any monitoring period in which a unit has operated for less than 10% of the monitoring period, the period will not be considered as one of the two successive periods.
 - (3) If invoking the monitoring **period** exemption in B108.D(2), the actual operating time of a unit shall not exceed the monitoring period required by this permit before the required monitoring is performed. For example, if the monitoring period is annual, the operating hours of the unit shall not exceed 8760 hours before monitoring is conducted. Regardless of the time that a unit actually operates, a minimum of one of each type of monitoring activity shall be conducted during any five-year period.
- E. For all periodic monitoring events, except when a federal or state regulation is more stringent, three test runs shall be conducted at 90% or greater of the unit's capacity as stated in this permit, or in the permit application if not in the permit, and at additional loads when requested by the Department. If the 90% capacity cannot be achieved, the monitoring will be conducted at the maximum achievable load under prevailing operating conditions except when a federal or state regulation requires more restrictive test conditions. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the monitoring report.
- F. When requested by the Department, the permittee shall provide schedules of testing and monitoring activities. Compliance tests from previous NSR and Title V permits may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions.
- G. If monitoring is new or is in addition to monitoring imposed by an existing applicable requirement, it shall become effective 120 days after the date of permit issuance. For emission units that have not commenced operation, the associated new or additional monitoring shall not apply until 120 days after the units

commence operation. All pre-existing monitoring requirements incorporated in this permit shall continue to apply from the date of permit issuance.

B109 General Recordkeeping Requirements

- A. The permittee shall maintain records to assure and verify compliance with the terms and conditions of this permit and any other applicable requirements that become effective after permit issuance. The minimum information to be included in these records is:
- (1) equipment identification (include make, model and serial number for all tested equipment and emission controls);
 - (2) date(s) and time(s) of sampling or measurements;
 - (3) date(s) analyses were performed;
 - (4) the qualified entity that performed the analyses;
 - (5) analytical or test methods used;
 - (6) results of analyses or tests; and
 - (7) operating conditions existing at the time of sampling or measurement.
- B. Except as provided in the Specific Conditions, records shall be maintained on-site or at the permittee's local business office for a minimum of two (2) years from the time of recording and shall be made available to Department personnel upon request. Sources subject to 20.2.70 NMAC "Operating Permits" shall maintain records on-site for a minimum of five (5) years from the time of recording.
- C. Malfunction emissions and routine and predictable emissions during startup, shutdown, and scheduled maintenance (SSM):
- (1) The permittee shall keep records of all events subject to the plan to minimize emissions during routine or predictable SSM. (20.2.7.14.A NMAC)
 - (2) If the facility has allowable SSM emission limits in this permit, the permittee shall record all SSM events, including the date, the start time, the end time, a description of the event, and a description of the cause of the event. This record also shall include a copy of the manufacturer's, or equivalent, documentation showing that any maintenance qualified as scheduled. Scheduled maintenance is an activity that occurs at an established frequency pursuant to a written protocol published by the manufacturer or other reliable source. The authorization of allowable SSM emissions does not supersede any applicable federal or state standard. The most stringent requirement applies.
 - (3) If the facility has allowable malfunction emission limits in this permit, the permittee shall record all malfunction events to be applied against these limits,

including the date, the start time, the end time, and a description of the event. **Malfunction means** any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. (40 CFR 63.2, 20.2.7.7.E NMAC) The authorization of allowable malfunction emissions does not supersede any applicable federal or state standard. The most stringent requirement applies. This authorization only allows the permittee to avoid submitting reports under 20.2.7 NMAC for total annual emissions that are below the authorized malfunction emission limit.

B110 General Reporting Requirements

(20.2.72 NMAC Sections 210 and 212)

- A. Records and reports shall be maintained on-site or at the permittee's local business office unless specifically required to be submitted to the Department or EPA by another condition of this permit or by a state or federal regulation. Records for unmanned sites may be kept at the nearest business office.
- B. The permittee shall notify the Department's Compliance Reporting Section using the current Submittal Form posted to NMED's Air Quality web site under Compliance and Enforcement/Submittal Forms in writing of, or provide the Department with (20.2.72.212.A and B):
 - (1) the anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date. Notification may occur prior to issuance of the permit, but actual startup shall not occur earlier than the permit issuance date;
 - (2) after receiving authority to construct, the equipment serial number as provided by the manufacturer or permanently affixed if shop-built and the actual date of initial startup of each new or modified source within fifteen (15) days after the startup date; and
 - (3) the date when each new or modified emission source reaches the maximum production rate at which it will operate within fifteen (15) days after that date.
- C. The permittee shall notify the Department's Permitting Program Manager, in writing of, or provide the Department with (20.2.72.212.C and D):
 - (1) any change of operators or any equipment substitutions within fifteen (15) days of such change;

- (2) any necessary update or correction no more than sixty (60) days after the operator knows or should have known of the condition necessitating the update or correction of the permit.
- D. Results of emission tests and monitoring for each pollutant (except opacity) shall be reported in pounds per hour (unless otherwise specified) and tons per year. Opacity shall be reported in percent. The number of significant figures corresponding to the full accuracy inherent in the testing instrument or Method test used to obtain the data shall be used to calculate and report test results in accordance with 20.2.1.116.B and C NMAC. Upon request by the Department, CEMS and other tabular data shall be submitted in editable, MS Excel format.
- E. The permittee shall submit reports of excess emissions in accordance with 20.2.7.110.A NMAC.

B111 General Testing Requirements

- A. Compliance Tests
- (1) Compliance test requirements from previous permits (if any) are still in effect, unless the tests have been satisfactorily completed. Compliance tests may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions. (20.2.72 NMAC Sections 210.C and 213)
 - (2) Compliance tests shall be conducted within sixty (60) days after the unit(s) achieve the maximum normal production rate. If the maximum normal production rate does not occur within one hundred twenty (120) days of source startup, then the tests must be conducted no later than one hundred eighty (180) days after initial startup of the source.
 - (3) Unless otherwise indicated by Specific Conditions or regulatory requirements, the default time period for each test run shall be **at least** 60 minutes and each performance test shall consist of three separate runs using the applicable test method. For the purpose of determining compliance with an applicable emission limit, the arithmetic mean of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Department approval, be determined using the arithmetic mean of the results of the two other runs.
 - (4) Testing of emissions shall be conducted with the emissions unit operating at 90 to 100 percent of the maximum operating rate allowed by the permit. If it is not

possible to test at that rate, the source may test at a lower operating rate, subject to the approval of the Department.

- (5) Testing performed at less than 90 percent of permitted capacity will limit emission unit operation to 110 percent of the tested capacity until a new test is conducted.
- (6) If conditions change such that unit operation above 110 percent of tested capacity is possible, the source must submit a protocol to the Department within 30 days of such change to conduct a new emissions test.

B. EPA Reference Method Tests

- (1) All compliance tests required by this permit, unless otherwise specified by Specific Conditions of this permit, shall be conducted in accordance with the requirements of CFR Title 40, Part 60, Subpart A, General Provisions, and the following EPA Reference Methods as specified by CFR Title 40, Part 60, Appendix A:
 - (a) Methods 1 through 4 for stack gas flowrate
 - (b) Method 5 for TSP
 - (c) Method 6C and 19 for SO₂
 - (d) Method 7E for NO_x (test results shall be expressed as nitrogen dioxide (NO₂) using a molecular weight of 46 lb/lb-mol in all calculations (each ppm of NO/NO₂ is equivalent to 1.194 x 10⁻⁷ lb/SCF)
 - (e) Method 9 for opacity
 - (f) Method 10 for CO
 - (g) Method 19 may be used in lieu of Methods 1-4 for stack gas flowrate upon approval of the Department. A justification for this proposal must be provided along with a contemporaneous fuel gas analysis (preferably on the day of the test) and a recent fuel flow meter calibration certificate (within the most recent quarter).
 - (h) Method 7E or 20 for Turbines per 60.335 or 60.4400
 - (i) Method 29 for Metals
 - (j) Method 201A for filterable PM₁₀ and PM_{2.5}
 - (k) Method 202 for condensable PM
 - (l) Method 320 for organic Hazardous Air Pollutants (HAPs)
 - (m) Method 25A for VOC reduction efficiency
 - (n) Method 30B for Mercury
- (2) Alternative test method(s) may be used if the Department approves the change

C. Periodic Monitoring and Portable Analyzer Requirements

- (1) Periodic emissions tests (periodic monitoring) may be conducted in accordance with EPA Reference Methods or by utilizing a portable analyzer. Periodic monitoring utilizing a portable analyzer shall be conducted in accordance with the requirements of ASTM D 6522-00. However, if a facility has met a previously approved Department criterion for portable analyzers, the analyzer may be operated in accordance with that criterion until it is replaced.
- (2) Unless otherwise indicated by Specific Conditions or regulatory requirements, the default time period for each test run shall be **at least 20 minutes**.

Each performance test shall consist of three separate runs. The arithmetic mean of results of the three runs shall be used to determine compliance with the applicable emission limit.

- (3) Testing of emissions shall be conducted in accordance with the requirements at Section B108.E.
- (4) During emissions tests, pollutant, O₂ concentration and fuel flow rate shall be monitored and recorded. This information shall be included with the test report furnished to the Department.
- (5) Pollutant emission rate shall be calculated in accordance with 40 CFR 60, Appendix A, Method 19 utilizing fuel flow rate (scf) and fuel heating value (Btu/scf) obtained during the test.

D. Test Procedures:

- (1) The permittee shall notify the Department's Program Manager, Compliance and Enforcement Section at least thirty (30) days before the test date and allow a representative of the Department to be present at the test.
- (2) Equipment shall be tested in the "as found" condition. Equipment may not be adjusted or tuned prior to any test for the purpose of lowering emissions, and then returned to previous settings or operating conditions after the test is complete.
- (3) Contents of test notifications, protocols and test reports shall conform to the format specified by the Department's Universal Test Notification, Protocol and Report Form and Instructions. Current forms and instructions are posted to NMED's Air Quality web site under Compliance and Enforcement Testing.
- (4) The permittee shall provide (a) sampling ports adequate for the test methods applicable to the facility, (b) safe sampling platforms, (c) safe access to sampling platforms and (d) utilities for sampling and testing equipment.
- (5) The stack shall be of sufficient height and diameter and the sample ports shall be located so that a representative test of the emissions can be performed in

accordance with the requirements of EPA Method 1 or ASTM D 6522-00 as applicable.

- (6) Where necessary to prevent cyclonic flow in the stack, flow straighteners shall be installed
- (7) Unless otherwise indicated by Specific Conditions or regulatory requirements, test reports shall be submitted to the Department no later than 30 days after completion of the test.

B112 Compliance

- A. The Department shall be given the right to enter the facility at all reasonable times to verify the terms and conditions of this permit. Required records shall be organized by date and subject matter and shall at all times be readily available for inspection. The permittee, upon verbal or written request from an authorized representative of the Department who appears at the facility, shall immediately produce for inspection or copying any records required to be maintained at the facility. Upon written request at other times, the permittee shall deliver to the Department paper or electronic copies of any and all required records maintained on site or at an off-site location. Requested records shall be copied and delivered at the permittee's expense within three business days from receipt of request unless the Department allows additional time. Required records may include records required by permit and other information necessary to demonstrate compliance with terms and conditions of this permit. (NMSA 1978, Section 74-2-13)
- B. A copy of the most recent permit(s) issued by the Department shall be kept at the permitted facility or (for unmanned sites) at the nearest company office and shall be made available to Department personnel for inspection upon request. (20.2.72.210.B.4 NMAC)
- C. Emissions limits associated with the energy input of a Unit, i.e. lb/MMBtu, shall apply at all times unless stated otherwise in a Specific Condition of this permit. The averaging time for each emissions limit, including those based on energy input of a Unit (i.e. lb/MMBtu) is one (1) hour unless stated otherwise in a Specific Condition of this permit or in the applicable requirement that establishes the limit.

B113 Permit Cancellation and Revocation

- A. The Department may revoke this permit if the applicant or permittee has knowingly and willfully misrepresented a material fact in the application for the permit. Revocation will be made in writing, and an administrative appeal may be taken to the Secretary of the Department within thirty (30) days. Appeals will be handled in accordance with the Department's Rules Governing Appeals From Compliance Orders.

- B. The Department shall automatically cancel any permit for any source which ceases operation for five (5) years or more, or permanently. Reactivation of any source after the five (5) year period shall require a new permit. (20.2.72 NMAC)
- C. The Department may cancel a permit if the construction or modification is not commenced within two (2) years from the date of issuance or if, during the construction or modification, work is suspended for a total of one (1) year. (20.2.72 NMAC)

B114 Notification to Subsequent Owners

- A. The permit and conditions apply in the event of any change in control or ownership of the Facility. No permit modification is required in such case. However, in the event of any such change in control or ownership, the permittee shall notify the succeeding owner of the permit and conditions and shall notify the Department's Program Manager, Permits Section of the change in ownership within fifteen (15) days of that change. (20.2.72.212.C NMAC)
- B. Any new owner or operator shall notify the Department's Program Manager, Permits Section, within thirty (30) days of assuming ownership, of the new owner's or operator's name and address. (20.2.73.200.E.3 NMAC)

B115 Asbestos Demolition

- A. Before any asbestos demolition or renovation work, the permittee shall determine whether 40 CFR 61 Subpart M, National Emissions Standards for Asbestos applies. If required, the permittee shall notify the Department's Program Manager, Compliance and Enforcement Section using forms furnished by the Department.

B116 Short Term Engine Replacement

- A. The following Alternative Operating Scenario (AOS) addresses engine breakdown or periodic maintenance and repair, which requires the use of a short term replacement engine. The following requirements do not apply to engines that are exempt per 20.2.72.202.B(3) NMAC. Changes to exempt engines must be reported in accordance with 20.2.72.202.B NMAC. A short term replacement engine may be substituted for any engine allowed by this permit for no more than 120 days in any rolling twelve month period per permitted engine. The compliance demonstrations required as part of this AOS are in addition to any other compliance demonstrations required by this permit.
 - (1) The permittee may temporarily replace an existing engine that is subject to the emission limits set forth in this permit with another engine regardless of manufacturer, model, and horsepower without modifying this permit. The

permittee shall submit written notification to the Department within 15 days of the date of engine substitution according to condition B110.C(1).

- (a) The potential emission rates of the replacement engine shall be determined using the replacement engine’s manufacturer specifications and shall comply with the existing engine’s permitted emission limits.
- (b) The direction of the exhaust stack for the replacement engine shall be either vertical or the same direction as for the existing engine. The replacement engine’s stack height and flow parameters shall be at least as effective in the dispersion of air pollutants as the modeled stack height and flow parameters for the existing permitted engine. The following equation may be used to show that the replacement engine disperses pollutants as well as the existing engine. The value calculated for the replacement engine on the right side of the equation shall be equal to or greater than the value for the existing engine on the left side of the equation. The permitting page of the Air Quality Bureau website contains a spreadsheet that performs this calculation.

EXISTING ENGINE

REPLACEMENT ENGINE

$$\frac{[(g) \times (h1)] + [(v1)^2/2] + [(c) \times (T1)]}{q1} \leq \frac{[(g) \times (h2)] + [(v2)^2/2] + [(c) \times (T2)]}{q2}$$

Where

g = gravitational constant = 32.2 ft/sec²

h1 = existing stack height, feet

v1 = exhaust velocity, existing engine, feet per second

c = specific heat of exhaust, 0.28 BTU/lb-degree F

T1 = absolute temperature of exhaust, existing engine = degree F + 460

q1 = permitted allowable emission rate, existing engine, lbs/hour

h2 = replacement stack height, feet

v2 = exhaust velocity, replacement engine, feet per second

T2 = absolute temperature of exhaust, replacement engine = degree F + 460

q2 = manufacturer’s potential emission rate, replacement engine, lbs/hour

The permittee shall keep records showing that the replacement engine is at least as effective in the dispersion of air pollutants as the existing engine.

- (c) Test measurement of NOx and CO emissions from the temporary replacement engine shall be performed in accordance with Section B111 with the exception of Condition B111A(3) and B111B for EPA Reference Methods Tests or Section B111C for portable analyzer test measurements. Compliance test(s) shall be conducted within fifteen (15)

- (3) The permittee shall maintain a contemporaneous record documenting the unit number, manufacturer, model number, horsepower, emission factors, emission test results, and serial number of any existing engine that is replaced, and the replacement engine. Additionally, the record shall document the replacement duration in days, and the beginning and end dates of the short term engine replacement.
 - (4) The permittee shall maintain records of a regulatory applicability determination for each replacement engine (including 40CFR60, subparts IIII and JJJJ and 40CFR63, subpart ZZZZ) and shall comply with all associated regulatory requirements.
- B. Additional requirements for replacement of engines at sources that are major as defined in regulation 20.2.74 NMAC, Permits – Prevention of Significant Deterioration, section 7.AF. For sources that are major under PSD, the total cumulative operating hours of the replacement engine shall be limited using the following procedure:
- (1) Daily, the actual emissions from the replacement engine of each pollutant regulated by this permit for the existing engine shall be calculated and recorded.
 - (2) The sum of the total actual emissions since the commencement of operation of the replacement engine shall not exceed the significant emission rates in Table 2 of 20.2.74 NMAC, section 502 for the time that the replacement engine is located at the facility.
- C. All records required by this section shall be kept according to section B109.

PART C MISCELLANEOUS

C100 Supporting On-Line Documents

- A. Copies of the following documents can be downloaded from NMED's web site under Compliance and Enforcement or requested from the Bureau.
- (1) Excess Emission Form (for reporting deviations and emergencies)
 - (2) Universal Stack Test Notification, Protocol and Report Form and Instructions
 - (3) SOP for Use of Portable Analyzers in Performance Tests

C101 Definitions

- A. **“Daylight”** is defined as the time period between sunrise and sunset, as defined by the Astronomical Applications Department of the U.S. Naval Observatory. (Data

for one day or a table of sunrise/sunset for an entire year can be obtained at <http://aa.usno.navy.mil/>. Alternatively, these times can be obtained from a Farmer's Almanac or from <http://www.almanac.com/rise/>).

- B. **“Exempt Sources”** and **“Exempt Activities”** is defined as those sources or activities that are exempted in accordance with 20.2.72.202 NMAC. Note; exemptions are only valid for most 20.2.72 NMAC permitting actions.
- C. **“Fugitive Emission”** means those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.
- D. **“Insignificant Activities”** means those activities which have been listed by the department and approved by the administrator as insignificant on the basis of size, emissions or production rate. Note; insignificant activities are only valid for 20.2.70 NMAC permitting actions.
- E. **“Natural Gas”** is defined as a naturally occurring fluid mixture of hydrocarbons that contains 20.0 grains or less of total sulfur per 100 standard cubic feet (SCF) and is either composed of at least 70% methane by volume or has a gross calorific value of between 950 and 1100 Btu per standard cubic foot. (40 CFR 60.631)
- F. **“Natural Gas Liquids”** means the hydrocarbons, such as ethane, propane, butane, and pentane, that are extracted from field gas. (40 CFR 60.631)
- G. **“National Ambient air Quality Standards”** means, unless otherwise modified, the primary (health-related) and secondary (welfare-based) federal ambient air quality standards promulgated by the US EPA pursuant to Section 109 of the Federal Act.
- H. **“Night”** is the time period between sunset and sunrise, as defined by the Astronomical Applications Department of the U.S. Naval Observatory. (Data for one day or a table of sunrise/sunset for an entire year can be obtained at <http://aa.usno.navy.mil/>. Alternatively, these times can be obtained from a Farmer's Almanac or from <http://www.almanac.com/rise/>).
- I. **“Night Operation or Operation at Night”** is operating a source of emissions at night.
- J. **“NO₂”** or "Nitrogen dioxide" means the chemical compound containing one atom of nitrogen and two atoms of oxygen, for the purposes of ambient determinations. The term "**nitrogen dioxide**," for the purposes of stack emissions monitoring, shall include nitrogen dioxide (the chemical compound containing one atom of nitrogen and two atoms of oxygen), nitric oxide (the chemical compound containing one atom of nitrogen and one atom of oxygen), and other oxides of nitrogen which may

test as nitrogen dioxide and is sometimes referred to as NO_x or NO₂. (20.2.2 NMAC)

- K. “**NO_x**” see NO₂
- L. “**Paved Road**” is a road with a permanent solid surface that can be swept essentially free of dust or other material to reduce air re-entrainment of particulate matter. To the extent these surfaces remain solid and contiguous they qualify as paved roads: concrete, asphalt, chip seal, recycled asphalt and other surfaces approved by the Department in writing.
- M. “**Potential Emission Rate**” means the emission rate of a source at its maximum capacity to emit a regulated air contaminant under its physical and operational design, provided any physical or operational limitation on the capacity of the source to emit a regulated air contaminant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its physical and operational design only if the limitation or the effect it would have on emissions is enforceable by the department pursuant to the Air Quality Control Act or the federal Act.
- N. “**Restricted Area**” is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.
- O. “**Shutdown**” for requirements under 20.2.72 NMAC, means the cessation of operation of any air pollution control equipment, process equipment or process for any purpose, except routine phasing out of batch process units.
- P. “**SSM**” for requirements under 20.2.7 NMAC, means routine or predictable startup, shutdown, or scheduled maintenance.
- (1) “**Shutdown**” for requirements under 20.2.7 NMAC, means the cessation of operation of any air pollution control equipment or process equipment.
- (2) “**Startup**” for requirements under 20.2.7 NMAC, means the setting into operation of any air pollution control equipment or process equipment.
- Q. “**Startup**” for requirements under 20.2.72 NMAC, means the setting into operation of any air pollution control equipment, process equipment or process for any purpose, except routine phasing in of batch process units.

C102 Acronyms

2SLB	2-stroke lean burn
4SLB	4-stroke lean burn
4SRB	4-stroke rich burn
acfm.....	actual cubic feet per minute
AFR.....	air fuel ratio
AP-42	EPA Air Pollutant Emission Factors
AQB	Air Quality Bureau
AQCR	Air Quality Control Region
ASTM	American Society for Testing and Materials
Btu	British thermal unit
CAA	Clean Air Act of 1970 and 1990 Amendments
CEM.....	continuous emissions monitoring
cfh	cubic feet per hour
cfm	cubic feet per minute
CFR.....	Code of Federal Regulation
CI	compression ignition
CO.....	carbon monoxides
COMS	continuous opacity monitoring system
EIB	Environmental Improvement Board
EPA.....	United States Environmental Protection Agency
gr/100 cf.....	grains per one hundred cubic feet
gr/dscf	grains per dry standard cubic foot
GRI.....	Gas Research Institute
HAP.....	hazardous air pollutant
hp	horsepower
H ₂ S	hydrogen sulfide
IC	internal combustion
KW/hr	kilowatts per hour
lb/hr.....	pounds per hour
lb/MMBtu	pounds per million British thermal unit
MACT	Maximum Achievable Control Technology
MMcf/hr.....	million cubic feet per hour
MMscf.....	million standard cubic feet
N/A.....	not applicable
NAAQS.....	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NG	natural gas
NGL	natural gas liquids
NMAAQs	New Mexico Ambient Air Quality Standards
NMAC.....	New Mexico Administrative Code
NMED.....	New Mexico Environment Department
NMSA.....	New Mexico Statues Annotated

NO _x	nitrogen oxides
NSCR.....	non-selective catalytic reduction
NSPS.....	New Source Performance Standard
NSR.....	New Source Review
PEM.....	parametric emissions monitoring
PM.....	particulate matter (equivalent to TSP, total suspended particulate)
PM ₁₀	particulate matter 10 microns and less in diameter
PM _{2.5}	particulate matter 2.5 microns and less in diameter
pph.....	pounds per hour
ppmv.....	parts per million by volume
PSD.....	Prevention of Significant Deterioration
RATA.....	Relative Accuracy Test Assessment
RICE.....	reciprocating internal combustion engine
rpm.....	revolutions per minute
scfm.....	standard cubic feet per minute
SI.....	spark ignition
SO ₂	sulfur dioxide
SSM.....	Startup Shutdown Maintenance (see SSM definition)
TAP.....	Toxic Air Pollutant
TBD.....	to be determined
THC.....	total hydrocarbons
TSP.....	Total Suspended Particulates
tpy.....	tons per year
ULSD.....	ultra low sulfur diesel
USEPA.....	United States Environmental Protection Agency
UTM.....	Universal Transverse Mercator Coordinate system
UTMH.....	Universal Transverse Mercator Horizontal
UTMV.....	Universal Transverse Mercator Vertical
VHAP.....	volatile hazardous air pollutant
VOC.....	volatile organic compounds

C103 Map of Ochoa Processing Plant Haul Roads

Ochoa Processing Plant Haul Road Map

