Data Base Summary (Statement of Basis)

NSR Permit

Type of Permit Action: Significant Modification

PSD or Not	Minor or Title V	Portable or Not
PSD Minor from stack emissions	TV	Not

Facility: Chino Mine
Company: Freeport-McMoRan Chino Mines Co
Facility Type: MINING-Copper Mine
Permit No. (NSR) 0298-M11
Operating Permit No. (TV) P066-R3M1
Agency Interest No. 526 - PRN20220001
AIRS ID No. 350170001
SIC CODE: 1021: Copper ores
Permit Writer: Joseph Kimbrell

Application Notarized Date: June 20, 2022
Receive Date: July 07, 2022
Timeliness of TV Application: **Yes**
Ruled Incomplete: NR
Ruled Complete: August 4, 2022
APP. sent to Field Office: Not required due to Covid-19 restrictions
Public involvement Plan (PIP): Signed on June 23, 2022
PSD APP. Sent to EPA: NR
Public Notice Date & Newspaper: August 17, 2022, Silver City Daily Press
Comments Due: September 16, 2022
Analysis Review Begins: NR
Analysis Review Ends: NR
Public Hearing: NR
Proposed Permit to EPA Acknowledged: NR
Permit Due: November 2, 2022
Permit Issued: TBD
PSD Permit to EPA: NA

Facility Location: Also in Sections 23, 27, 28, 33, 34, and 35. The facility is 3.89 miles northeast of Bayard, NM. 32.783594, -108.069194
UTM Zone: 12; **Datum:** WGS84
UTM Easting: 774500 meters
UTM Northing: 3631100 meters
Elevation: 5630 ft **County:**Grant
In a Sensitive Area: No, Section 32, Range 12W, Township 17S

Contact Name: Sherry Burt-Kested **Email:** sburtkes@fmi.com
Phone: 575-912-5927
Fax: 575-537-8012
Contact Address: P.O. Box 10, Bayard, NM 88023

Consultant Name: Adam Erenstein, Trinity Consultants
Phone: 505-266-6611 **Fax:** 505-266-7738
Email: aerenstein@trinityconsultants.com
Consultant Address: 9400 Holly NE Bldg. 3 Suite 300
Albuquerque, NM 87122

NSR Agency* Notification:

Agency	Distance	Units	Date Email Sent
Class I - Gila Wilderness	16.7	km	9/1/2022

*As required by 20.2.72.206.A.(7): Mail a copy of the public notice at the same time it is sent for publication to the appropriate agency in the following locations if the source will locate within 50 kilometers (31.1 miles) of the boundary of other states, Bernalillo County, or a Class I Area.

PART II - FACILITY SPECIFICATIONS

Table 102.A: Total Potential To Emit (PTE) from Entire Facility

Pollutant	**Emissions** (tons per year)	Emission Type	Change in Emission since Permit 0298M10
Nitrogen Dioxide w/TV engines	281.6	Allowable	+0.054
Nitrogen Dioxide w/o NSR exempt engines	257.6		+0.054
Nitrogen Dioxide (non-fugitive portion)	225.4		No Change
Carbon Monoxide w/TV engines	1452.9	Allowable	+1.22
Carbon Monoxide w/o NSR exempt engines	1446.7		+1.22
Carbon Monoxide (non-fugitive portion)	106.5		No Change
Volatile Organic Compounds (VOC) w/TV engines	21.4	Allowable	No Change
VOC w/o NSR exempt engines	20.7		No Change
VOC (non-fugitive portion)	17.0		No Change
Sulfur Dioxide	4.1	Allowable	No Change
Sulfur Dioxide (non-fugitive portion)	3.7		No Change
Particulate Matter (total suspended)	17,641.6	Allowable	+0.06
TSP (non-fugitive portion)	34.7		No Change
Particulate Matter (10 microns or less)	4,697.0	Allowable	+0.06
PM10 (non-fugitive portion)	32.0		No Change
Particulate Matter (2.5 microns or less)	503.4	Allowable	+0.003
PM 2.5 (non-fugitive portion)	24.8		No Change
Carbon Dioxide Equivalent (CO_2e)(GHG)	355,886.8	Potential	+10.92

Note: Total Potential Pollutant Emissions in Table 102.A, may include fugitive emissions; routine or predictable, startup, shutdown, and maintenance emissions (SSM); and permitted malfunction allowances if these are a sources of regulated air pollutants from this facility.

Table 102.B: Total Potential To Emit (PTE) for *HAPs that exceed 1.0 tons per year

Pollutant	**Emissions** (tons per year)	**Emission Type**	**Change in Emission since Permit P066R3**
Formaldehyde	1.44	Potential	No Change
Toluene	1.27	Potential	
Total HAP	5.41	Potential	No Change

* HAP emissions are included in the Table 102.A VOC emissions total.

** Total HAP emissions may not agree with the sum of individual HAPs because only individual HAPs emitted at a rate greater than 1.0 ton per year are listed in Table 102.B.

AIR POLLUTION CONTROL DEVICES:

Unit # (Subject Item ID)	SI Description	Primary	Secondary
CB SCRN ENG (EQPT167)	Screening Plant Diesel Engine	Process Change	
CBM HR (AREA9)	Cobre Mine Hauling	Water Sprays	
CH SCRN ENG (EQPT166)	Screening Plant Diesel Engine	Process Change	
CM MH (AREA10)	Chino Mine Material Handling	Water Sprays	
Cummins Generator - 1823 (EQPT203)	South Side Tailing office	Process Change	
DEUTZ (EQPT202)	Sump Pump, Emergency Standby engine	Process Change	
EFP (EQPT195)	Emergency Firewater Pump engine	Process Change	
ENG-1 (EQPT216)	Caterpillar 3056 CI Engine for Lime Slaking	Process Change	
FWP01 (EQPT196)	Concentrator Fire Emergency Pump	Process Change	
IC-01 (EQPT11)	Molybdenum Plant	Scrubber	
LHS-01 (IC-06) (AREA2)	Lime Handling System	Scrubber	
Mase 1 (EQPT204)	Slope 1	Process Change	
PC-01 (EQPT5)	Primary Crusher	Baghouse	
Sxlgdwn1 (EQPT199)	10 Dam Hanover, Emergency Standby Pump engine	Process Change	
Sxlpwrprm2 (EQPT201)	Sump #3, Emergency Standby Pump engine	Process Change	
Sxlpwrprm4 (EQPT200)	14 Dam Hanover, Emergency Standby Pump engine	Process Change	
Sxlpwrprm5 (EQPT198)	11 Dam Hanover, Emergency Standby Pump engine	Process Change	
Sxlpwrprm8 (EQPT197)	20 Dam Hanover, Emergency Standby Pump engine	Process Change	

Equipment Specifications (Active/Alternative):

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
CB SCRN EQPT168	Screen	Chieftain 2100S	P1000124TDGC34711	Terex-12-0131	01-JAN-12	01-JAN-12	/	450 tons/h / 1346000 tons/y	Active	Screening Material Handling
CB SCRN ENG EQPT167	Internal combustion engine	Deutz		NA	01-JAN-12	01-JAN-12	/	/ 175 hp	Active	Screening Plant Diesel Engine
CB TLNGS AREA13	Processing	N/A	N/A	N/A	20-JAN-12		/	/	Active	Cobre Mine Tailings Impoundment

Equipment Specifications (Active/Alternative):

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
CBM BLST AREA19	Processing	N/A	N/A	N/A	12-DEC-16		14300 tons/y	110000 lb/d	Active	Cobre Mine Continental/ Hanover Blasting
BORR_BLST	Processing	N/A	N/A	N/A	TBD/2022		4 blasts @ 119,700 lbs of ANFO	60 tons of ANFO per year	Active	Cobre Haul Road Borrow Pit Blasting
BORR_MH	Processing	N/A	N/A	N/A	TBD/2022		350,000 tons per year	8760 hrs/y	Active	Cobre Haul Road Borrow Pit Material Handling
CBM HR AREA9	Processing				20-JAN-12		75000 tons/d	/	Active	Cobre Mine Hauling
CBM MH AREA8	Processing	N/A	N/A	N/A	20-JAN-12		/	126000 tons/d / 45990 M tons/y	Active	Cobre Mine Material Handling
CH SCRN EQPT124	Screen	Terex/Finlay	883	FPK 560309	01-JAN-01	01-JAN-07	1404 M tons/y /	1000 tons/h	Active	Screening Material Handling
CH SCRN ENG EQPT166	Internal combustion engine	Deutz		NA	01-JAN-07	01-JAN-07	/	/ 96 hp	Active	Screening Plant Diesel Engine
CM BLST AREA11	Processing	N/A	N/A	N/A	20-JAN-12		52000 tons/y /	400000 lb/d /	Active	Chino Mine Blasting
CM HR RPNT2	Fugitives	N/R	N/R	N/R	14-SEP-12		/	/	Active	Chino Mine Hauling
CM MH AREA10	Processing	N/A	N/A	N/A	20-JAN-12		1000 M tons/d / 365 MM tons/yr	/	Active	Chino Mine Material Handling
CM TLNGS AREA12	Processing	N/A	N/A	N/A	20-JAN-12		/	/	Active	Chino Mine Tailings Impoundment

Equipment Specifications (Active/Alternative):

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
CTS-01 EQPT64	Hopper	NA	NA	NA			/	/ 3360 tons/h	Active	Conveyor Transfer (beneath PC-01)
CV-01A EQPT6	Conveyor	NA	NA	NA	13-JUN-81	13-JUN-81	3360 tons/h /	/	Active	Coarse Ore Stockpile Conveyor, Flight #1
CV-01B EQPT22	Conveyor	N/R	N/R	N/R			/	/ 3360 tons/h	Active	Coarse Ore Stockpile Conveyor, Flight #1
CV-01C EQPT67	Hopper	unknown	unknown	unknown	20-JAN-12		/	/ 3360 tons/h	Active	Coarse Ore Conveyer Transfer (between CV-01A and CV-01B)
Cummins Generator - 1823 EQPT203	Internal combustion engine	Cummins 4BT-3.9	Cummins 4BT-3.9	unknown	01-JAN-84	01-JAN-84	/	/ 32 hp	Active	South Side Tailing office
DEUTZ EQPT202	Internal combustion engine	DEUTZ	F6L914	CE84/1			/	/ 114 hp	Active	Sump Pump, Emergency Standby engine
EFP EQPT195	Internal combustion engine	Detroit Diesel		08GR109034	01-JAN-96	01-FEB-88	/	/ 195 hp	Active	Emergency Firewater Pump engine
ENG-1 EQPT216	Internal combustion engine	Caterpillar	G3056	7MS00581	24-OCT-18	01-JAN-99	145 hp / 145 hp	145 hp / 145 hp	Active	Caterpillar 3056 CI Engine for Lime Slaking
F-1-3-2 EQPT63	Loading/Unloading Rack	unknown	unknown	unknown			/	/ 1848 tons/d	Active	Material Handling, Front End Loader
F-2-1-1.4 EQPT18	Turbine	Westinghouse	W251B12	4658139	01-JAN-00	01-JAN-00	455 MM BTU/h /	/ 455 MM BTU/h	Active	Westinghouse Gas Turbine

Equipment Specifications (Active/Alternative):

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
F-2-1-1.5 EQPT21	Burner	HRSG w/duct burner	N/R	N/R	01-JAN-01	01-JAN-01	48.8 MM BTU/h /	/ 48.8 MM BTU/h	Active	Heat Recovery Steam Generator
FLTR/BLND RPNT8	Fugitives	N/A	N/A	N/A			/	/	Active	Filter/Blending Plant
FWP01 EQPT196	Internal combustion engine	Detroit Diesel	10447312	4A0252067	01-AUG-81	01-AUG-81	/	/ 185 hp	Active	Concentrator Fire Emergency Pump
GDF EQPT142	Tank - Above Ground	N/A	N/A	N/A	01-JAN-91		/	466 gal/day / 167628 gal/y	Active	Gasoline Dispensing Facilities
GENERAC1 EQPT207	Internal combustion engine	Generac	QT04524-Propane	5578228	01-JAN-09	01-JAN-09	/	/ 60 hp	Active	MIS Building
GENERAC2 EQPT208	Internal combustion engine	Generac	QT03624-Propane	6460608	01-JAN-11	01-JAN-11	/	/ 50 hp	Active	SX-EW Tankhouse
GENERAC4 EQPT210	Internal combustion engine	Generac	G0064383-Propane	3000668968	01-JUL-16	01-JUL-16	/	/ 15 hp	Active	Mine Pit Slope Monitoring Station - Slope 2
GENERAC5 EQPT211	Internal combustion engine	Generac	G0070330-Propane	001383173		12/21/2016	/	/ 15 hp	Active	Santa Rita Tower
GENERAC6 EQPT212	Internal combustion engine	Generac	G0070390-Propane	3002190256		10/16/2017	/	/ 15 hp	Active	Nun Complex Communication Station

Equipment Specifications (Active/Alternative):

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
GENERAC7 EQPT218	Internal combustion engine	Generac	G0070771-Propane	3005263349	20-MAR-20	18-NOV-19	/	/ 20 hp	Active	Standby generator for primary crusher OPS/Dispatch
IC-01 EQPT11	Heater Treater/Stack Pak	Molybdenum Plant			13-AUG-01	13-AUG-01	/	/	Active	Molybdenum Plant
LHS-01 (IC-06) AREA2	Processing	Lime Handling System - Ivanhoe Concentrator			06-JUN-80	06-JUN-80	800 tons/d (flow rate) / 800 tons/d (flow rate)	/ 800 tons/d (flow rate)	Active	Lime Handling System
LUS-01 EQPT7	Loading/Unloading Rack	Lime Unloading System - Ivanhoe Concentrator			13-JUN-81	13-JUN-81	1848 tons/d (flow rate) / 1848 tons/d (flow rate)	/ 1848 tons/d (flow rate)	Active	Lime Unloading System
LmSlk RPNT9	Fugitives						/	/	Active	QuickLime Slaking Mill
Mase 1 EQPT204	Internal combustion engine	Mase	PD 50 YS	G101753	01-JAN-10	01-JAN-10	/	/ 4.5 hp	Active	Slope 1
PC DUMP EQPT68	Bins-Disposal	unknown	unknown	unknown	20-JAN-12		/	/ 3360 tons/h	Active	Primary Crusher Dump Pocket
PC-01 EQPT5	Crusher	Primary Crusher			13-JUN-81	13-JUN-81	3360 tons/h / 3360 tons/h	/ 3360 tons/h	Active	Primary Crusher

Equipment Specifications (Active/Alternative):

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
RT-1 EQPT214	Internal combustion engine	Caterpillar	DG60-2-Propane	CAT0DG60CT3700224		3/1/2018	/	/ 67 hp	Active	Highway to Heaven
RT-2 EQPT215	Internal combustion engine	Caterpillar	DG60-2-Propane	CAT0DG60CT3700226		3/1/2018	/	/ 67 hp	Active	Cobre Radio Tower
SAG-F1 (IC-04) AREA1	Processing	Concentrate Handling	N/A	N/A	13-JUN-81	13-JUN-81	3300 tons/h /	/	Active	SAG Mill Feeders
SCDP EQPT23	Conveyor	N/R	N/R	N/R	20-JAN-12		/	/ 1848 tons/d	Active	Stacker Conveyor
SXEW 10MST EQPT160	Tank - Above Ground	Mixer/Settler Tank			15-AUG-00	15-AUG-00	/	/ 391600 ft^2	Active	SX/EW Plant Ten Mixer/settler Tanks
SXEW Boiler No.1 EQPT162	Boiler	LOCHINVAR	CBL1257	H12H00242605	01-JAN-96	01-JAN-96	1.26 MM BTU/h /	/ 1.26 MM BTU/h	Active	SXEW Plant Water Boiler No.1
SXEW Boiler No.2 EQPT163	Boiler	LOCHINVAR	CBL1257	H12H00242604	01-JAN-96	01-JAN-96	1.26 MM BTU/h /	/ 1.26 MM BTU/h	Active	SXEW Plant Water Boiler No.2
SXEW Boiler No.3 EQPT169	Boiler	Weben-Jarco	AJH140	AJH140.1057	01-JAN-96	01-JAN-96	1.4 MM BTU/h /	/ 1.4 MM BTU/h	Active	SXEW Plant Water Boiler No.3
SXEW RT EQPT161	Tank - Above Ground	SX/EW Plant Raffinate Tank			15-AUG-00	15-AUG-00	/ 5024 ft^2	/ 5024 ft^2	Active	SX/EW Plant Raffinate Tank

Equipment Specifications (Active/Alternative):

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
SXEW SAT RPNT7	Fugitives	N/A	N/A	N/A	14-SEP-12		/	/	Active	SXEW Plant Acid Tankhouse
Sxlgdwn1 EQPT199	Internal combustion engine	Caterpillar	CAT/3126	BEJ09668	01-JAN-05	01-JAN-05	/	/ 309 hp	Active	10 Dam Hanover, Emergency Standby Pump engine
Sxlpwrprm2 EQPT201	Internal combustion engine	Caterpillar	CAT/3126	BEJ09674	01-JAN-05	01-JAN-05	/	/ 309 hp	Active	SX Leach Building
Sxlpwrprm3 EQPT219	Internal combustion engine	Perkins	APKXL06.6 PJ1	PJ38861NT 1818989	01-JAN-05	01-JAN-05	/	/ 175 hp	Active	11 Dam Hanover, Emergency Standby Pump engine
Sxlpwrprm4 EQPT200	Internal combustion engine	Caterpillar	CAT/3126B	BEJ10895	01-JAN-05	01-JAN-05	/	/ 225 hp	Active	14 Dam Hanover, Emergency Standby Pump engine
Sxlpwrprm5 EQPT198	Internal combustion engine	Caterpillar	CAT/3126B /IND	BEJ10891	01-JAN-10	01-JAN-10	/	/ 225 hp	Active	Far East
Sxlpwrprm7 EQPT220	Internal combustion engine	Perkins	APKXL06.6J 2	PJ38448	01-JAN-05	01-JAN-05	/	/ 175 hp	Active	13 Dam Hanover, Emergency Standby Pump engine
Sxlpwrprm8 EQPT197	Internal combustion engine	Perkins	PJ38448	U027193U	01-JAN-05	01-JAN-05	/	/ 275 hp	Active	20 Dam Hanover, Emergency Standby Pump engine
WH Crush EQPT217	Crusher	White House Crushing Plant	TBD	TBD	01-JAN-20	01-JAN-20	500 tons/h / 500 tons/h	/ 500 tons/h	Active	White House Crushing Plant

Equipment Specifications (Inactive/Retired/Removed):

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
EQPT24 CV-01 (53)	Conveyor	N/R	N/R	N/R			/	/ 1848 tons/d	Insignificant	Filter Plant Conveyor Feed Belt 1
EQPT25 CV-02 (53)	Conveyor	N/R	N/R	N/R			/	/ 1848 tons/d	Insignificant	Filter Plant Conveyor Feed Belt 2
EQPT26 CV-03	Conveyor	N/R	N/R	N/R			/	/ 1848 tons/d	Insignificant	Filter Plant Conveyor Feed Belt 3
EQPT27 CV-04	Conveyor	NA	NA	NA			/	/ 5.89 tons/d	Insignificant	Filter Plant Conveyor Feed Belt 4
EQPT28 CV-05	Conveyor	NA	NA	NA			/	/ 5.89 tons/d	Insignificant	Filter Plant Conveyor Feed Belt 5
EQPT29 CV-06	Conveyor	NA	NA	NA			/	/	Insignificant	Filter Plant Conveyor Feed Belt 6

EMISSIONS: Pollutant **Permitted** (Allowable**)** Emissions per piece of equipment or Subject Item as represented by applicant. New Mexico TSP Rule was repealed in November 2018, therefore, TSP limits removed.

Unit No.	NO_x (pph)	[1]NO_x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO_2 (pph)	SO_2 (tpy)	PM_{10} (pph)	PM_{10} (tpy)	$PM_{2.5}$ (pph)	$PM_{2.5}$ (tpy)
CB TLNGS									0.13	0.59	0.02	0.09
CBM HR									44.18	207.5	4.42	20.75
CBM MH									0.2	0.77	0.03	0.12

EMISSIONS: Pollutant **Permitted** (Allowable**)** Emissions per piece of equipment or Subject Item as represented by applicant. New Mexico TSP Rule was repealed in November 2018, therefore, TSP limits removed.

Unit No.	NO_x (pph)	[1]NO_x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO_2 (pph)	SO_2 (tpy)	PM_{10} (pph)	PM_{10} (tpy)	$PM_{2.5}$ (pph)	$PM_{2.5}$ (tpy)
BORR_BLST	*	<	*	1.2	--	--	*	<	*	<	*	<
BORR_MH	--	--	--	--	--	--	--	--	<	<	<	<
CBM BLST	*	12.9	*	290.6			*	0.03	*	17.3	*	1.0
CM BLST	*	46.8	*	1056.6			*0.0	0.09	*	70.1	*	4.0
CM HR									0.88	3.85	0.13	0.58
CM MH									282.8	4088.7	28.3	408.9
CM TLNGS									38.85	170.15	5.83	25.52
CV-01C									0.5	2.4	0.1	0.4
LmSlk (RPNT9)									1.3	0.17	0.19	0.03
ENG-1 (EQPT216)	5.4	4.1	1.2	0.88	0.44	0.33	0.36	0.27	0.38	0.29	0.38	0.29
F-2-1-1.4	39.9	174.8	20.0	87.6	2.8	12.3	0.40	1.8	2.3	10.1	2.3	10.1
F-2-1-1.5	2.4	10.5	1.3	5.7	0.6	2.6	0.03	0.13	0.3	1.3	0.3	1.3
F-2-2-1									1.6	7.1	0.005	0.02
FLTR/BLND [4]									0.35	0.31	0.35	0.31
GDF					0.62	2.7						
IC-01									0.3	1.4	0.3	1.4
LHS-01 (IC-06)									<	0.1	<	0.02
LUS-01									0.24	0.10	0.04	0.02
PC DUMP									0.02	0.07	.002	0.01
PC-01 [3]									2.2	9.5	2.2	9.5
SAG-F1 (IC-04)									0.5	2.4	0.08	0.36

EMISSIONS: Pollutant **Permitted** (Allowable**)** Emissions per piece of equipment or Subject Item as represented by applicant. New Mexico TSP Rule was repealed in November 2018, therefore, TSP limits removed.

Unit No.	NO_x (pph)	[1]NO_x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO_2 (pph)	SO_2 (tpy)	PM_{10} (pph)	PM_{10} (tpy)	$PM_{2.5}$ (pph)	$PM_{2.5}$ (tpy)
SCDP [2]									0.2	0.7	0.04	0.2
CH SCRN									8.6	6.1	1.2	0.9
CB SCRN									1.5	2.3	0.2	0.3
CH SCRN ENG	0.8	3.6	0.1	0.5	0.02	0.08	0.19	0.8	0.2	0.9	0.2	0.9
CB SCRN ENG	1.2	2.5	1.0	2.2	0.5	1.1	0.4	0.9	0.5	1.0	0.5	1.0
WH Crush									34.48	75.51	6.2	13.57
SXEW 10MST					0.29	1.3						
SXEW Boiler No.1	0.2	0.8	0.1	0.5	<	0.06	<	0.03	<	0.04	<	0.04
SXEW Boiler No.2	0.2	0.8	0.1	0.5	<	0.06	<	0.03	<	0.04	<	0.04
SXEW Boiler No.3	0.2	0.9	0.1	0.5	0.02	0.07	<	0.04	<	0.05	<	0.05
SXEW RT					<	0.08						
SXEW SAT									2.3	10.2		
Emergency Fire Pump	4.7	1.2	1.2	0.31	0.13	0.033	0.0022	0.00055	0.10	0.025	0.10	0.025
Sxlgdwn1	7.2	1.8	1.9	0.48	0.20	0.051	0.0034	0.00086	0.16	0.039	0.16	0.039
Sxlpwrprm2	7.2	1.8	1.9	0.48	0.20	0.051	0.0034	0.00086	0.16	0.039	0.16	0.039
Sxlpwrprm3	5.8	1.45	1.25	0.31	0.15	0.038	0.0025	0.00063	0.12	0.029	0.12	0.029
Sxlpwrprm4	5.3	1.3	1.4	0.36	0.15	0.038	0.0025	0.00063	0.12	0.029	0.12	0.029
Sxlpwrprm5	5.3	1.3	1.4	0.36	0.15	0.038	0.0025	0.00063	0.12	0.029	0.12	0.029
Sxlpwrprm7	5.8	1.45	1.25	0.31	0.15	0.038	0.0025	0.00063	0.12	0.029	0.12	0.029
Sxlpwrprm8	6.5	1.6	1.7	0.43	0.18	0.045	0.0031	0.00077	0.14	0.035	0.14	0.035

EMISSIONS: Pollutant **Permitted** (Allowable**)** Emissions per piece of equipment or Subject Item as represented by applicant. New Mexico TSP Rule was repealed in November 2018, therefore, TSP limits removed.

Unit No.	NO_x (pph)	[1]NO_x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO_2 (pph)	SO_2 (tpy)	PM_{10} (pph)	PM_{10} (tpy)	$PM_{2.5}$ (pph)	$PM_{2.5}$ (tpy)
Cummins Generator/1823	1.0	0.26	0.27	0.069	0.029	0.0073	0.00049	0.00012	0.022	0.0056	0.022	0.0056
Mase 1	0.42	0.10	0.11	0.028	0.012	0.0029	0.00020	0.000049	0.0091	0.0023	0.0091	0.0023
CB EGEN2	29.4	7.3	7.8	2.0	0.83	0.21	0.014	0.0035	0.64	0.16	0.64	0.160
CB EGEN3	29.4	7.3	7.8	2.0	0.83	0.21	0.014	0.0035	0.64	0.16	0.64	0.160
DEUTZ	2.9	0.72	0.76	0.19	0.081	0.020	0.0014	0.00034	0.062	0.016	0.062	0.016
FWP01	4.5	1.1	1.2	0.30	0.13	0.031	0.0021	0.00053	0.10	0.024	0.10	0.024
GENERAC1	3.0	0.76	0.24	0.059	0.088	0.022	0.00044	0.00011	0.000057	0.0000144	0.000057	0.000014
GENERAC2	2.1	0.51	0.16	0.040	0.059	0.015	0.00030	7.4E-05	0.000039	0.0000097	0.000039	0.000010
GENERAC3	0.44	0.11	0.034	0.0085	0.013	0.0032	6.3E-05	1.6E-05	########	0.0000021	######	########
GENERAC4	0.44	0.11	0.034	0.0085	0.013	0.0032	6.3E-05	1.6E-05	########	0.0000021	######	########
GENERAC5	0.73	0.18	0.057	0.014	0.021	0.0053	0.00011	2.6E-05	0.000014	0.0000035	0.000014	########
GENERAC6	0.73	0.18	0.057	0.014	0.021	0.0053	0.00011	2.6E-05	0.000014	0.0000035	0.000014	########
GENERAC7	0.73	0.18	0.057	0.014	0.021	0.0053	0.00011	2.6E-05	0.000014	0.0000035	0.000014	########
West Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	5.58E-05	1.40E	5.58E-05	1.40E-05
Cobre Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	5.58E-05	1.40E	5.58E-05	1.40E-05

EMISSIONS: Pollutant **Permitted** (Allowable**)** Emissions per piece of equipment or Subject Item as represented by applicant. New Mexico TSP Rule was repealed in November 2018, therefore, TSP limits removed.

Unit No.	NO_x (pph)	[1]NO_x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO_2 (pph)	SO_2 (tpy)	PM_{10} (pph)	PM_{10} (tpy)	$PM_{2.5}$ (pph)	$PM_{2.5}$ (tpy)
TOTAL - Non-fugitive sources		**229.5**		**107.4**		**17.7**		**4.2**		**32.0**		**25.0**
TOTAL*- Fugitive & Non-fugitive sources		285.7		1453.8		21.7		4.1		4696.9		503.4
Permit Allowables												

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO_2.
2 Unit SCDP includes emissions from CV-01A Flight 1 and CV-01B Flight B.
3 Unit PC-01 includes emissions from CTS-01.
4 Unit FLTR/BLND includes emissions from Units CV-01-53, CV-02-53, CV-03, CV-04, CV-05, CV-06, and F-1-3-2

* Totals are for information, not enforceable conditions, and used to determine annual Operating Fees.

All Emergency Generators are NSR exempted and not listed or shown in the NSR permit but are subject to Title V since they have Federal applicable requirements. Since NOx and CO are major pollutants for stack emission under Title V, emission limits for the emergency generators are established under Title V authority for any value greater than 1.0 pph or 1.0 tpy.

Note 1: PM10=PM2.5.

PM = PM (Condensable) + PM10 (filterable) = 9.91 E-03 + 7.71 E-05 = 9.99 E-03 for natural gas-fired reciprocating engines. (AP-42 (7/00), 3.2.3.3, Table 3.2-2) References from AP-42 indicate particulate matter from combustion of natural gas is primarily very small-sized particulate matter. By definition, since total suspended particulate includes all particle-sizes less than an aerodynamic diameter of approximately 30 microns and PM10 includes those less than 10 microns in size. This is recognized by the NMED in the particle depletion parameters that are provided by the AQB Modeling Section which state that combustion particulates are 100% PM2.5 or smaller.

Pollutant **Unpermitted** (Potential) Emissions (Non-regulated, without permitted emission limits)

Unit No.	NO_x (pph)	[1]NO_x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO_2 (pph)	SO_2 (tpy)	PM_{10} (pph)	PM_{10} (tpy)	$PM_{2.5}$ (pph)	$PM_{2.5}$ (tpy)
Emergency Fire Pump	4.7	1.2	1.2	0.31	0.13	0.033	0.0022	0.00055	0.10	0.025	0.10	0.025
Sxlpwrprm8	6.5	1.6	1.7	0.43	0.18	0.045	0.0031	0.00077	0.14	0.035	0.14	0.035
Sxlpwrprm5	5.3	1.3	1.4	0.36	0.15	0.038	0.0025	0.00063	0.12	0.029	0.12	0.029
Sxlgdwn1	7.2	1.8	1.9	0.48	0.20	0.051	0.0034	0.00086	0.16	0.039	0.16	0.039
Sxlpwrprm4	5.3	1.3	1.4	0.36	0.15	0.038	0.0025	0.00063	0.12	0.029	0.12	0.029
Sxlpwrprm2	7.2	1.8	1.9	0.48	0.20	0.051	0.0034	0.00086	0.16	0.039	0.16	0.039
Cummins Generator/1823	1.0	0.26	0.27	0.069	0.029	0.0073	0.00049	0.00012	0.022	0.0056	0.022	0.0056
Mase 1	0.42	0.10	0.11	0.028	0.012	0.0029	0.00020	0.000049	0.0091	0.0023	0.0091	0.0023
CB EGEN2	29.4	7.3	7.8	2.0	0.83	0.21	0.014	0.0035	0.64	0.16	0.64	0.160
CB EGEN3	29.4	7.3	7.8	2.0	0.83	0.21	0.014	0.0035	0.64	0.16	0.64	0.160
DEUTZ	2.9	0.72	0.76	0.19	0.081	0.020	0.0014	0.00034	0.062	0.016	0.062	0.016
FWP01	4.5	1.1	1.2	0.30	0.13	0.031	0.0021	0.00053	0.10	0.024	0.10	0.024
GENERAC1	3.0	0.76	0.24	0.059	0.088	0.022	0.00044	0.00011	0.000057	0.0000144	0.000057	0.000014
GENERAC2	2.1	0.51	0.16	0.040	0.059	0.015	0.00030	7.4E-05	0.000039	0.0000097	0.000039	0.000010
GENERAC3	0.44	0.11	0.034	0.0085	0.013	0.0032	6.3E-05	1.6E-05		0.0000021		
GENERAC4	0.44	0.11	0.034	0.0085	0.013	0.0032	6.3E-05	1.6E-05		0.0000021		
GENERAC5	0.73	0.18	0.057	0.014	0.021	0.0053	0.00011	2.6E-05	0.000014	0.0000035	0.000014	
GENERAC6	0.73	0.18	0.057	0.014	0.021	0.0053	0.00011	2.6E-05	0.000014	0.0000035	0.000014	

Unit No.	NO_x (pph)	[1]NO_x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO_2 (pph)	SO_2 (tpy)	PM_{10} (pph)	PM_{10} (tpy)	$PM_{2.5}$ (pph)	$PM_{2.5}$ (tpy)
GENERAC7	0.73	0.18	0.057	0.014	0.021	0.0053	0.00011	2.6E-05	0.000014	0.0000035	0.000014	
West Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	5.58E-05	1.40E	5.58E-05	1.40E-05
Cobre Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	5.58E-05	1.40E	5.58E-05	1.40E-05

All Emergency Generators are NSR exempted and not listed or shown in the NSR permit but are subject to Title V since they have Federal applicable requirements

ALLOWABLE HAPS EMISSIONS FROM TEMPO, NONE

POTENTIAL HAPS EMISSIONS FROM TEMPO, Table has the most common HAPS – it is not inclusive of all HAPS that might be entered in TEMPO. All emissions are in tons/year

Emission Unit Number	**Total HAPS** (tpy)
formaldehyde	**1.4**
Toluene	**1.3**
TOTAL*	**5.4**

* Totals are for information only and may not match the totals in the table “TOTAL HAPS and NM TAPS”