Timothy M. Keller, Mayor

Environmental Health Department
Air Quality Program
Interoffice Memorandum

To:	Permit File
From:	Regan Eyerman
Subject:	**Permit Application #3291-M2**
Date:	March24, 2021
Permit Description:	Modified Construction Permit

Facility Name:	**Albuquerque Asphalt, Inc.**	**UTM Coordinates, North:**	3874950
Facility Address:	5012 Broadway Boulevard SE Albuquerque, NM 87105	**East:**	349700
Facility ID:	FA0005231	**Record ID:**	PR0010620

Proposal

An application was received by the Department on November 6, 2020 from Albuquerque Asphalt, Inc. for their facility located at 5012 Broadway Blvd. in Albuquerque, NM. Additional information was received on January 28, 2021, February 23, 2021, andMarch 23, 2021. Albuquerque Asphalt is requesting to include revised dispersion modeling. This modeling was completed to adjust emission source locations after the release of a new Google Earth aerial that better shows the final layout of the facility. The modeling also closes a gap in the fence that separates this facility from 5100 Broadway SE. The owner of this facility is Albuquerque Asphalt, Inc., 202 94th St. SW, Albuquerque, NM 87121. The facility consists of a Hot Mix Asphalt (HMA) plant and a recycle asphalt pavement (RAP)/concrete crushing plant. The HMA plant will be powered by line power. The permit modification application proposes the following:

- Updates facility address from 5028 Broadway to 5012 Broadway;
- Modifies permit conditions on daily hot mix asphalt (HMA) operating throughput;
- Reduces operating hours for the HMA plant for the months of December and January to daylight hours only;
- Increases total daily production for the HMA plant;
- All roads shall be paved;
- Adds an additional option for RAP/Concrete plant equipment, an Astec 3600 Prosizer screening/crushing plant powered by line power instead of a diesel-fired engine;
- Additional pollution control equipment shall installed on the exit of the drum mixer and asphalt silo loading. The pollution control equipment installed is a recirculation system that captures asphalt fumes, organic PM, carbon monoxide, VOC gases, then recirculates the gas back to the drum dryer to be re-burned to reduce these pollutant emissions by approximately 60%;
- Co-located on the site will be Albuquerque Asphalt's Cold Mix Asphalt (KMA) plant permitted under Permit #1955; and,
- The co-located Complete Concrete and Excavation permitted under Permit #1838-RV3 will be withdrawn.

The facility consists of one (1) hot mix drum, one (1) hot mix drum baghouse, five (5) cold feed bins, four (4) cold feed conveyors, one (1) cold feed scalping screen, one (1) cold feed pug mill, one (1) mineral filler silo with baghouse and auger, two (2) HMA RAP bins, three (3) HMA RAP conveyors, one (1) HMA RAP screen, one (1) HMA incline conveyor, six (6) HMA silos, two (2) HMA asphalt cement storage tanks, one (1) fuel oil fired hot oil heater, one (1) RAP/concrete crusher plant feeder, two (2) RAP/concrete crusher plant crushers, eight (8) RAP/concrete crusher plant conveyors, one (1) RAP/concrete crusher plant screen, one (1) RAP/concrete plant process engine, plant haul roads and aggregate/RAP/concrete storage piles.

A control efficiency of 91-95% on emissions will be achieved through a water injection system. Additionally a control efficiency of above 99% will be achieved using baghouses on the filler silo and the drum mixer.

Permitting History

Permit Number	Issuance Date	Permit Type	Brief Description
3291	June 19, 2017	New	Hot Mix Asphalt Plant
3291-1AR	November 21, 2017	Technical revision	Transfer of ownership from Mountain States Contractors, Inc. to Albuquerque Asphalt, Inc. and updates to Process Equipment Table to fix numbering errors
3291-M1	May 11, 2018	Modification	Permanent relocation of the yard, removal of generators, addition of concrete to RAP plant, option of operating one of four crusher plants, update to Process Equipment Table, reduction of hourly production rate of the facility and the addition of federal conditions

Regulatory Applicability

New Mexico Administrative Code (NMAC) Regulations

The applicable Albuquerque-Bernalillo County Air Quality Control Board regulations include but are not limited to the provisions below:

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
20.11.1	**Environmental Protection General**	Yes. All facility
20.11.2	**Permit Fees**	Yes. All facility
20.11.2.18.C	Ton-per-year application review fees for stationary sources that require permits pursuant to 20.11.41 NMAC or other board regulation, and whose applicability is based on the source's pound per hour or ton per year emissions:	Yes. All facility
(4)	Permits for proposed sources with a proposed allowable emission rate equal to or greater than 50 tons per year and less than 75 tons per year: $5,255.00.	
*	*The review fee above have been adjusted for the Consumer Price Index on January 1, 2020.*	
→	*The Department received proof of payment of $5255 on August 27, 2020.*	
20.11.2.21	Annual Emissions Fees and Rate for Stationary Sources	Yes. All facility
B.	Permitted source: Sources issued a permit pursuant to 20.11.41 NMAC, 20.11.42 NMAC, 20.11.60 NMAC, 20.11.61 NMAC or other board regulation, shall pay a minimum annual emission fee of $219.00 or $52.00 per ton, whichever is greater. The annual emission fee shall be calculated as required by Subsection C of 20.11.2.13 NMAC	
F.	Beginning January 1, 2011, and every January 1 thereafter, an increase based on the consumer price index shall be added to the annual emission fee and rates required by 20.11.2.21 NMAC. The annual emission fees and rates pursuant to 20.11.2.21 NMAC shall be adjusted by an amount equal to the increase in the consumer price index for the immediately preceding year.	
	The Annual Emission Fees above were adjusted for the Consumer Price Index on January 1, 2021	

Emission Unit #	CO* TPY	NOx* TPY	SO2* TPY	VOC* TPY	PM10* TPY	HAP* TPY
Totals	65	53	27	18	18	5
Total = 186 tpy						
**Note: The total emissions on this table are for billable use only. These are NOT the allowable annual emissions for the facility.*						

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
20.11.5	**Visible Air Contaminants**	
20.11.5.12	General Stationary Sources	
	No person owning or operating any stationary source, not otherwise addressed in this Part, shall cause or allow visible air contaminant emissions that exceed an opacity of 20 percent, 6 minute time-averaged.	Yes. Units #1 - #17, #20 - #21, #23 - #25
20.11.5.13.C	Specific Stationary Sources	
	No person shall cause or allow visible emissions from any stationary diesel-powered engine to exceed 20 percent opacity, 6 minute time-averaged. During the first 20 minutes of cold startup the visible emissions shall not exceed 40 percent opacity, 6 minute time-averaged. Additionally, no increase of load shall be applied so as to cause an emission having an opacity greater than 40 percent during any time interval.	Unit #38
20.11.8	**Ambient Air Quality Standards – Only New Mexico State Standards** **Note:** 20.11.8 NMAC is applicable, but the newer federal standards contained in 40 CFR §50 apply.	Yes. All facility
20.11.20	**Fugitive Dust Control**	
20.11.20.12	General Provisions	
A.	Each person shall use reasonably available control measures or any other effective control measure during active operations or on inactive disturbed surface areas, as necessary to prevent the release of fugitive dust, whether or not the person is required by 20.11.20 NMAC to obtain a fugitive dust control permit. It shall be a violation of 20.11.20 NMAC to allow fugitive dust, track out, or transported material from any active operation, open storage pile, stockpile, paved or unpaved roadway disturbed surface area, or inactive disturbed surface area to cross or be carried beyond the property line, right-of-way, easement or any other area under control of the person generating or allowing the fugitive dust if the fugitive dust may:	Yes. All facility
(1)	with reasonable probability injure human health or animal or plant life;	
(2)	unreasonably interfere with the public welfare, visibility or the reasonable use of property; or	
(3)	be visible for a total of 15 minutes or more during any consecutive one hour observation period using the visible	

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
	fugitive dust detection method in 20.11.20.26 NMAC or an equivalent method approved in writing by the department.	
20.11.40	**Source Registration**	
20.11.40.2.A	This Part is applicable to any stationary source located in Bernalillo County.	Yes. All facility
20.11.40.6	By January 1, 1974, any person owning or operating any commercial or industrial stationary source, which emits more than two thousand pounds of any air contaminant per year or any amount of a hazardous air pollutant, must obtain a Registration Certificate for the source from the Director. Any person owning or operating any commercial or industrial stationary source constructed after September 1, 1973, and meeting the emission requirements of this section, must obtain a Registration Certificate for the source from the Director within one hundred and eighty days after the initial startup date of the source.	
20.11.41	**Construction Permits**	
20.11.41.2.B	Emission thresholds that require a construction permit before commencing construction, modification or operation of a stationary source subject to 20.11.41 NMAC:	Yes. All facility
(2)	If a person proposes a modification of a stationary source and the modification will emit one or more regulated air contaminants for which a federal, state or board ambient air quality standard exists, and if, as a result of the modification, all activities at the source will emit, when calculated at the contaminant's potential emission rate, 10 pounds per hour or more or 25 tons per year or more of a regulated air contaminant, then the person shall apply for and obtain a construction permit or permit modification as required by 20.11.41 NMAC before the person commences construction or operation.	
20.11.41.2.C	Source classifications; source types that require a construction permit before commencing construction, modification or operation of a stationary source subject to 20.11.41 NMAC:	Yes. All facility
(1)	any equipment or process that is subject or becomes subject to 20.11.63 NMAC, New Source Performance Standards for Stationary Sources, or 20.11.64 NMAC, Emission Standards for Hazardous Air Pollutants for Stationary Sources;	Yes. Units #14 - #17, #20 thru #21 & #26 - #38
20.11.41.29	**Permit Modification**	
	A person who proposes to modify a stationary source shall comply with all requirements of 20.11.41 NMAC.	Yes. All facility

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
	Applications for permit modifications shall be processed in accordance with all requirements established by 20.11.41 NMAC for permit applications, including public notice, review, fees and hearing procedures.	
20.11.49	Excess Emissions	
20.11.49.13.A	Applicable to any source:	Yes. All facility
(1)	whose operation results in an emission of a regulated air pollutant, including a fugitive emission, in excess of the quantity, rate, opacity or concentration specified by an air quality regulation or permit condition; or	
(2)	subject to the requirements of 20.11.47 NMAC, Emissions Inventory Requirements, 20.11.41 NMAC, Construction Permits, 20.11.42 NMAC, Operating Permits, 20.11.61 NMAC, Prevention of Significant Deterioration, or 20.11.60 NMAC, Permitting In Nonattainment Areas.	
20.11.49.15.A	The owner or operator of a source having an excess emission shall report the following information to the department on forms provided by the department. The department may authorize the submittal of such reports in electronic format. The department may require that the owner or operator of a source provide further information in addition to that already required by 20.11.49.15 NMAC by a deadline specified by the department.	
20.11.63	**Incorporation of federal standards Codified at 40 CFR Part 60**	
20.11.63.11	Federal Standards at 40 CFR Part 60, Subparts I, OOO and IIII	Yes. Units #14 - #17, #20-21 & #26 - #38* *(Except for Terex plant)
20.11.64	**Incorporation of Federal Standards Codified at 40 CFR Part 63:**	
20.11.64.12	Federal Standard at 40 CFR Part 63, Subpart ZZZZ	Yes. Unit #38 Terex Plant
20.11.66	**Process Equipment**	
20.11.66.2.A.	This Part is applicable to owner and operators of any equipment capable of emitting pollution emissions into the atmosphere within Bernalillo County.	

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
	NOTE: 20.11.66 NMAC is applicable to the facility, however, the facility is subject to the newer, more stringent requirements of 40 CFR § 60.92(a)(1)-(2).	
20.11.90	**Source Surveillance; Administration, Enforcement, Inspection**	
20.11.90.2.A.	20.11.90 is applicable to any source within the Bernalillo County.	Yes. All facility
20.11.90.13	**Source Surveillance**	
A	The owner or operator of any stationary source of an air contaminant shall, upon notification by the director, maintain records of the nature and amounts of emissions, to which an air quality control emission regulation applies, from the source and any other information as may be deemed necessary by the director to determine whether the source is in compliance with applicable regulations.	
E	The director shall establish a periodic visual surveillance system to detect and investigate apparent violations of visible emission limitations and such complaints relating to apparent violations of the regulations as may occur.	
20.11.90.14	**Administration and Enforcement**	
A.	Upon request of the director, the person responsible for the emission of air contaminants for which limits are established by the rules codified under Title 20, Environmental Protection, Chapter 11, Albuquerque - Bernalillo County Air Quality Control Board, of the New Mexico Administrative Code, shall provide such facilities, utilities, and openings exclusive of instrument and sensing devices, as may be necessary for the proper determination of the nature, extent, quantity and degree of such air contaminants. Such facilities may be either temporary or permanent at the discretion of the person responsible for their provisions; and shall be suitable for determination consistent with emission limits established in these rules.	Yes. All facility

Federal Applicability

The applicable federal regulations include, but are not limited to, the provisions below:

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
40 CFR 50	**National Primary and Secondary Ambient Air Quality Standards**	Yes. All facility
§50.4	National primary ambient air quality standards for sulfur oxides (sulfur dioxide) General Provision	
§50.5	National secondary ambient air quality standards for sulfur oxides (sulfur dioxide)	
§50.6	National primary and secondary ambient air quality standards for PM10	
§50.7	National primary and secondary ambient air quality standards for PM2.5	
§50.8	National primary ambient air quality standards for carbon monoxide	
§50.9	National 1-hr primary and secondary ambient air quality standards for ozone	
§50.10	National 8-hr primary and secondary ambient air quality standards for ozone	
§50.11	National primary and secondary ambient air quality standards for oxides of nitrogen (with nitrogen dioxide as the indicator)	
§50.13	National primary and secondary ambient air quality standards for PM2.5	
§50.15	National primary and secondary ambient air quality standards for ozone	
§50.16	National primary and secondary ambient air quality standards for lead	
§50.17	National secondary ambient air quality standards for sulfur oxides (sulfur dioxide)	
§50.18	National primary and secondary ambient air quality standards for PM2.5	
§50.19	National primary and secondary ambient air quality standards for ozone	
40 CFR 60	**Standards of Performance for New Stationary Source**	Yes. Units #14 - #17, #20-21 & #26 - #38* *(Except for Terex plant)
Subpart A	**General Provision**	
§60.1	**Applicability**	
(a)	Except as provided in subparts B and C, the provisions of this part apply to the owner or operator of any stationary source which contains an affected facility, the construction or modification of which is commenced after the date of publication in this part of any standard (or, if earlier, the date	

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
	of publication of any proposed standard) applicable to that facility	
§60.8	**Performance tests**	
(a)	… within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s).	Units #15, #26 through 37
§60.11	**Compliance with standards and maintenance requirements**	
(d)	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.	All units that do not have manufacturer's specifications
Subpart I	**Standards of Performance for Hot Mix Asphalt Facilities**	
§60.90	**Applicability and designation of affected facility.**	Yes
(a)	The affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.	Units #14 - #17 & #20 - #21
(b)	Any facility under paragraph (a) of this section that commences construction or modification after June 11, 1973, is subject to the requirements of this subpart.	
§60.92	**Standard for particulate matter.**	
(a)	On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall discharge or cause	

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
	the discharge into the atmosphere from any affected facility any gases which: (1) Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf). (2) Exhibit 20 percent opacity, or greater.	
§60.93	**Test methods and procedures**	
(a)	In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).	
(b)	The owner or operator shall determine compliance with the particulate matter standards in §60.92 as follows: (1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf). (2) Method 9 and the procedures in §60.11 shall be used to determine opacity.	
Subpart OOO	**OOO—Standards of Performance for Nonmetallic Mineral Processing Plants**	
§60.670	**Applicability and designation of affected facility.**	Yes
(a)(1)	Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable…. each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.	Units #26 - #37
§60.672	**Standard for particulate matter (PM)**	Yes
(b)	Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11. The requirements in Table 3 of this subpart apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.	Units #26 - #37

Citation	Regulation	Does it apply to the Facility and/ or Equipment? Y/N (List units)
Table 3	Fugitive Emission Limits	Yes.
	Affected facilities that commence construction, modification, or reconstruction on or after April 22, 2008. Must meet 12% Opacity	Units #26 and #31
	Affected facilities that commence construction, modification, or reconstruction on or after April 22, 2008. Must meet 7% Opacity	Units #27 - #30 & #32 - #37
Subpart IIII	**IIII —Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**	
§60.6590(c)	An affected source that is a new or reconstructed stationary RICE located at an area source "must meet the requirements of this part (40 CFR 63 Subpart ZZZZ) by meeting the requirements of 40 CFR Part 60 Subpart IIII, for compression ignition engines." The permittee shall comply with the specific requirements of Subpart IIII applicable to new stationary compression ignition internal combustion engines	Unit #38 (Except for Terex plant)
§60.4204(b)	Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201, for their 2007 model year and later stationary CI ICE, as applicable.	
Subpart ZZZZ	**ZZZZ — National Emission Standards for Hazardous Air Pollutants for Source Category: Stationary Reciprocating Internal Combustion Engines**	
§60.6585(a)	You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.	
§60.6603(a)	If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart.	Unit #38 Terex Plant

Specific Conditions for this Facility

FACILITY WIDE CONDITIONS	
A.	These are the permitted activities at the Facility:
1)	a 400-tph hot mix asphalt (HMA) plant;
2)	a 200 tph recycled asphalt pavement (RAP)/concrete crushing and screening plant
3)	aggregate storage piles and truck loading; and
4)	haul roads.

B. The HMA process is authorized to conduct the following activities:
1) utilize virgin aggregate, recycled asphalt pavement (RAP)/concrete, mineral filler and asphalt cement in the hot asphalt mix,
2) transport RAP/concrete, aggregate and mineral filler on and off-site by haul truck; and,
3) transport off-site by truck the hot mix asphalt product

C. The HMA Production Process is authorized to operate the following storage piles and equipment:
1) a 400-tph HMA Plant:
a) HMA Cold Aggregate Storage Pile
b) HMA Cold Aggregate Feed Bins (5)
c) HMA Cold Aggregate Feed Bin Conveyor
d) HMA Scalping Screen
e) HMA Scalping Screen Conveyor
f) HMA Pug Mill
g) HMA Scale Conveyor
h) HMA Slinger Conveyor
i) HMA Mineral Filler Silo
j) HMA Drum Dryer/Mixer
k) HMA Incline Conveyor
l) HMA Silos (6)
m) HMA Heater, and
n) HMA Cement Storage Tanks (2)
2) a 200-tph RAP/Concrete Plant:
a) RAP/Concrete Storage Pile
b) RAP/Concrete Crusher Plant Feeder
c) RAP/Concrete Primary Crusher
d) RAP/Concrete Crusher Conveyor
e) RAP/Concrete Screen Conveyor
f) RAP/Concrete Transfer Chute
g) RAP/Concrete Screen
h) RAP/Concrete Secondary Crusher
i) RAP/Concrete Transfer Conveyors (5), and
j) RAP/Concrete Stacker Conveyor

Fencing/barrier shall be installed and maintained so that it restricts public access to the property prior to the beginning of operation; all property within the fence line/barriers must be continuously owned or controlled by the permittee.

Haul roads are paved.

RAP/Concrete plant truck traffic is restricted to the aggregate haul road (PAG).

Material storage piles shall be watered to control fugitive dust emissions from leaving the property

Working piles (aka stockpiles) must be kept at least 40 feet from the fence along the property boundary.

Both the HMA plant baghouse stack and the RAP/Concrete plant generator must be at least 250 feet from the property boundary fence in every direction

Hourly Production Limits/Throughput Limits

Hot Mix Asphalt (HMA) Plant:

- 400 tons per hour (tph) production rate

Recycled Asphalt Plant (RAP)/Concrete:

- 200 tph throughput rate

Daily Production Limits/Throughput Limits

HMA Plant:

- during the months of November through January, the total daily production is limited to 4,000 tons;
- during the months of February through March, the total daily production is limited to 4,400 tons;
- during the months of April through May, the total daily production is limited to 5,600 tons;
- during the months of June through August, the total daily production is limited to 7,200 tons, and,
- during the months of September through October, the total daily production is limited to 4,400 tons.

Annual Production Limit/Throughput Limit, based on a 12-month rolling total

HMA Plant:

- 900,000 tons per year

RAP/Concrete Plant:

- 315,000 tons per year

Hours of Operation

HMA Plant:

- during the month of January, 7am to 5:30pm, 7 days per week;
- during the months of February through November, continuously; and,
- during the month of December, 7am to 5pm, 7 days per week;

RAP/Concrete Plant:

- during the months of December through February, 8am to 5pm, 7 days per week;
- during the months of March through May, 7am to 5pm, 7 days per week;
- during the months of June through August, 7am to 7pm, 7 days per week; and,
- during the months of September through November, 7am to 5pm, 7 days per week.

Unit #20 - HMA heater may operate continuously.

EQUIPMENT SPECIFIC CONDITIONS

Storage Piles	Material storage piles shall be watered to prevent fugitive dust emissions from leaving the property;
→	***Include Monitoring and Recordkeeping Conditions***
Haul Roads	Based on the application, the emissions were calculated on the number of trucks on the haul road. The number of trucks were calculated based on the type of material and throughput. Based on that information and the hours of operation, the facility will be limited to the following:
	Facility: • 32 trucks per hour, • 72,312 trucks per year
→	***Include Monitoring and Recordkeeping Conditions***
#3, #6 and #10	Must operate with an atomized water spray bar. This condition has been placed in the permit based on air dispersion modeling of the Facility at this location to demonstrate compliance with the National Ambient Air Quality Standards and New Mexico Ambient Air Quality Standards for PM2.5, and PM10.
→	***Include Monitoring and Recordkeeping Conditions***
#26 and 31	Per §60.672(b) and Table 3, fugitive emission limits for crushers at which a capture system is not used:

	• 12% Opacity • An initial performance test according to §60.11 of this part and §60.675 of this subpart; and • Periodic inspections of water sprays according to §60.674(b) and §60.676(b); and • A repeat performance test according to §60.11 of this part and §60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in §§60.674(b) and 60.676(b) are exempt from this 5-year repeat testing requirement.
#27 thru #30, #32 thru #37, and all affected transfer points	Per §60.672(b) and Table 3, fugitive emission limits for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility as defined in §60.670 and 60.671:
	• 7% opacity • An initial performance test according to §60.11 of this part and §60.675 of this subpart; and • Periodic inspections of water sprays according to §60.674(b) and §60.676(b); and • A repeat performance test according to §60.11 of this part and §60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in §60.674(b) and §60.676(b) are exempt from this 5-year repeat testing requirement.
→	***Include Monitoring and Recordkeeping Conditions***
#14 and #15	Per 60.92(a)(1) and (2)
	Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf). Exhibit 20 percent opacity, or greater.
→	***Monitoring:***
#14	**Mineral Filler Silo**
	Method 9 Opacity tests shall be conducted according to the requirements of 40 CFR 60, Subpart I and Appendix A. • At each calendar month, the Permittee shall conduct an EPA Method 9 Opacity test on the Silo Baghouse for the duration of the silo batch loading to verify that the Silo Baghouse is not damaged, that the silo stack is secured to and emissions are routed to the Silo Baghouse, and that compliance with 40 CFR 60, NSPS I opacity limits is demonstrated. • The Silo Baghouse differential pressure shall be monitored every 3 minutes, at a minimum, for the duration of the silo loading. • Filling of the Silo shall cease immediately if the pressure drop is not within the manufacturer's specified normal operating range or the range correlating with opacity tests demonstrating compliance with the 40 CFR 60, NSPS I opacity

	limits. Loading shall not re-commence until the cause of the deviation is determined and rectified.
#14	**Silo Baghouse**
	The controlled emissions from Mineral Silo were calculated using a 99% efficiency from the baghouse. The 99% control efficiency was obtained from Volume II, Chapter 3 of Preferred and Alternative Methods for Estimating Air Emissions from Hot-Mix Asphalt Plants, Table 3.2-1, Typical Hot-Mix Asphalt Plant Emission Control Techniques.
	Based on the same report, the baghouses need to maintain a pressure difference to work efficiency, which requires the bags to be cleaned periodically.
#15	**HMA Drum Dryer/Mixer**
	Mixer Baghouse: • EPA Method 9 Opacity tests shall be conducted according to the requirements of 40 CFR 60, Subpart I and Appendix A. • At least once each calendar month, the Permittee shall conduct a EPA Method 9 Opacity test on the Mixer Baghouse to verify that the Mixer Baghouse is not damaged, that the stack(s) is/are secured, that emissions are routed to the Baghouse, and that compliance with 40 CFR 60, NSPS I opacity limits is demonstrated. • Concurrently during any visible emissions monitoring of the Mixer Baghouse, differential pressure shall be monitored every 1 minute, at a minimum. . • During operation, the Mixer Baghouse differential pressure shall be monitored at once every hour, at a minimum, during daylight operations; and it shall be monitored continuously during night time operations. • Operations shall cease immediately if the pressure drop is not within the manufacturer's specified normal operating range or the range correlating with opacity tests demonstrating compliance with the 40 CFR 60, NSPS I opacity limits. Operations shall not re-commence until the cause of the deviation is determined and rectified
→	***Include Recordkeeping Conditions for both units (#14 and #15)***
#15	Must be shut down in the event of a malfunction of the Mixer Baghouse that causes the differential pressure to go outside of operating range as determined through compliance testing or manufacturer specifications, and repairs shall be made to the affected equipment. The Facility shall not restart operations until the capture and control equipment for Unit #15 HMA Drum Dyer/ Mixer is fully functional.
	Authorized to burn either on-specification used oil meeting the specifications listed in 40 CFR § 279.11 or natural gas/propane as the fuel
#15 and #20	The pound per hour (lb/hr) emission rates of Nitrogen Oxides (NOx) and/or Carbon Monoxide (CO) for Emission Units #15 and #20 shall be based on a three-hour average.
→	***Include Monitoring and Recordkeeping Conditions***
#16	Shall be operated with a recirculation system that captures asphalt fumes, organic PM, CO and VOC gases, then recirculates the gas back to the drum dryer to be re-burned.
#20	Authorized to burn natural gas/propane or low sulfur diesel
→	***Include Monitoring and Recordkeeping Conditions***

#38	**RAP/Concrete Crusher Plant Main Generator**
	• National Emissions Standard for Hazardous Air Pollutants (NESHAP) found in 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Source Category: Stationary Reciprocating Internal Combustion Engines apply. This facility shall comply with the specific requirements found in this subpart as well as the general requirements of 40 CFR 63 Subpart A - General Provisions. • A stack height of at least 15 feet above ground level • An exit temperature of at least 892 ^{O}F • An exit velocity of at least 220 feet per second • A stack diameter no more than 8 inches, and • A stack with vertical release
#38	**RAP/Concrete Crusher Plant Main Generator (not Terex plant)**
	Subject to NSPS 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, and Subpart A - General Provisions. The unit commenced construction after July 11, 2005 and was manufactured after April 1, 2006. Accordingly, the unit shall comply with all applicable requirements of 40 CFR 60 Subparts A and IIII.
	Shall be operated and maintained so that the unit achieves the emission standards as required in 40 CFR 60.4204 over the entire life of the engine
	If the unit is equipped with a diesel particulate filter to comply with the emissions standards listed above, the diesel particulate filter must be installed with a backpressure monitor that notifies the Permittee when the high backpressure limit of the engine is approached. [60.4209(b)]
	The Permittee shall meet the diesel fuel requirements as required by 40 CFR 60 Subpart IIII §60.4207(b) for engines subject to 40 CFR Part 60 Subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel: [§60.4207(b) and §80.510(b)] (a) Has a maximum sulfur content of 15 ppm [40 CFR 80.510(b)] and (b) Has a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent
	The Permittee shall do all the following, except as permitted under 40 CFR 60.4211(g) [60.4211(a)]: (a) Operate and maintain the unit and the unit's control device according to the manufacturer's written emission-related instructions or procedures developed by the Permittee that are approved by the engine manufacturer; [60.4211(a)(1)]; (b) Change only those emission-related settings that are permitted by the manufacturer [60.4211(a)(2)]; and (c) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable; [60.4211(a)(3)].
	If the Permittee does not install, configure, operate, and maintain the control device according to the manufacturer's emission-related written instructions, or if the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance per the requirements of 40 CFR 60.4211(g)
	For 2007 model year and later, the Permittee must comply with the emission standards specified in 40 CFR 60.4204(b), the Permittee shall comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), for the same model year and engine power. It shall be installed and configured according to the manufacturer's

	emission-related specifications, except as permitted in 40 CFR 60.4211(g) [§60.4211(c)].
	If modified or reconstructed the Permittee shall comply with the emission standards of 40 CFR 60.4204(e) and the Permittee shall demonstrate compliance according to one of the following methods [60.4211(e)]: (a) Purchasing, or otherwise owning or operating, an engine certified to the emission standards in 40 CFR 60.4204(e) [60.4211(e)]; or (b) Conducting a performance test to demonstrate initial compliance with the emission standards according to the requirements specified in 40 CFR 60.4212. The test shall be conducted within 60 days after the engine commences operation after the modification or reconstruction
	In accordance with 40 CFR 60 Subpart IIII §60.4204(b), owners and operators of 2007 model year and later non-emergency stationary compression ignition internal combustion engines (CI ICE) with a displacement of less than 30 liters per cylinder must shall comply with the emission standards for new compression ignition (CI) engines in §60.4201, for their 2007 model year and later stationary CI ICE, as applicable [§60.4204(b)].
	Since engine output has a maximum engine output less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder they must certify to the certification emission standards for new nonroad CI ICE in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power [§60.4201(a)].
#38	**RAP/Concrete Crusher Plant Main Generator (Terex plant)**
	In accordance with CFR 40 Subpart ZZZZ § 63.6603(a), the facility must comply with the requirements in Table 2d of the Subpart that apply. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; and inspect spark plugs, hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
	In accordance with CFR 40 Subpart ZZZZ §63.6625(h), the operator must minimize the time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
→	***Include Monitoring and Recordkeeping Conditions***
Fugitive Dust	**The applicant request the following control measures in the application:**
	Active Stockpiles: applying wet suppression on a regular basis
→	***Include Monitoring and Recordkeeping Conditions***
Opacity	All remaining units, except for Unit #22 20% Opacity based on 20.11.5.12 NMAC

Actions Taken

11/6/2020	Received application
11/20/2020	Application ruled complete
12/1/2020	Email response received by Marla Painter, President of Mountain View Community Action
1/28/2021	Application supporting documentation received
2/16/2021	Permit extension request approved by Department Director
2/23/2021	Application supporting documentation received
3/4/2021	Air dispersion model review completed
3/16/2021	Updated air dispersion model review completed
3/23/2021	Application supporting documentation received

Emissions Calculations are Presented for Emission Units #11b, 16, 17 and 22 Since There is a Change from the Original Permit

CALCULATIONS

TABLE A

AP-42 (11/06) Section 11.19.2.2 Conveyor Transfer Point Controlled

Unit #11b	
PM10	PM25
EF, lb/ton	
0.000046	0.000013
Capacity, tph	
140	140
Capacity, tpy	
315000	315000

Controlled	
E (PM10), lb/hr	**E (PM25), lb/hr**
0.006	**0.002**
E (PM10), tpy	**E (PM25), tpy**
0.007	**0.002**

Sample calculation

PM10 PM10 (lb/yr) = [140 tph] [0.000046 lb/ton]

PM10 (lb/yr) = 0.006

PM10 (ton/yr) = [315,000 tons/yr][0.000046 lb/ton][1 ton/2000 lbs]

PM10 (ton/yr) = 0.007

TABLE B

AP-42 (03/04) Table 11.1-14 Load Out and Silo Filling Operations

	Unit #16	
Total PM	VOC	CO
V		
-0.5	-0.5	-0.5
T		
325	325	325
Capacity, tph		
400	400	400
Capacity, tpy		
900000	900000	900000
Efficiency, %		
60	60	60
E (PM), lb/ton	E (VOC), lb/ton	E (CO), lb/ton
5.86E-04	1.22E-02	1.18E-03
E (PM), lb/hr	E (VOC), lb/hr	E (CO), lb/hr
0.09	**1.95**	**0.19**
E (PM), ton/yr	E (VOC), ton/yr	E (CO), ton/yr
0.11	**2.19**	**0.21**

Sample calculation

Emission Factor (lb/ton) = $0.000332+0.00105(-V)e^{((0.0251(T+460)-20.43))}$

Total PM	PM (lb/ton) = 0.000332+0.00105(0.5)e((0.0251(325+460)-20.43))
	PM (lb/ton) = 5.86E-04
	PM (lb/hr) = [400 tph] [5.86E-04 lb/ton][1-0.6]
	PM (lb/hr) = 0.09
	PM (ton/yr) = [900,000 tons/yr] [5.86E-04 lb/ton] [1 ton/2000 lbs] [1-0.6]
	PM (ton/yr) = 0.11

TABLE C

AP-42 (03/04) Table 11.1-14 Load Out and Silo Filling Operations

	Unit #17		
Total PM	VOC	CO	
V			
	-0.5	-0.5	-0.5
T			
	280	280	280
Capacity, tph			
	400	400	400
Capacity, tpy			
	900000	900000	900000
E (PM), lb/ton	E (VOC), lb/ton	E (CO), lb/ton	
	2.91E-04	1.34E-03	4.36E-04
E (PM), lb/hr	E (VOC), lb/hr	E (CO), lb/hr	
	0.12	**0.54**	**0.17**
E (PM), ton/yr	E (VOC), ton/yr	E (CO), ton/yr	
	0.13	**0.60**	**0.20**

Sample calculation

Emission Factor (lb/ton) = $0.000181+0.00141(-V)e^{((0.0251(T+460)-20.43))}$

Total PM	PM (lb/ton) = 0.000181+0.00141(0.5)e((0.0251(280+460)-20.43))
	PM (lb/ton) = 2.91E-04
	PM (lb/hr) = [400 tph] [2.91E-04 lb/ton]
	PM (lb/hr) = 0.12
	PM (ton/yr) = [900,000 tons/yr] [2.91E-04 lb/ton] [1 ton/2000 lbs]
	PM (ton/yr) = 0.13

TABLE D

AP-42 (1/11) Section 13.2.1 Paved Roads

Unit #22

	Hourly Roadtrips	Miles per Roadtrip	Annual throughput, tons	Annual Roadtrips	Amount of each load,	VMT per hour (Controlled)	VMT per year(Controlled)
Mineral Filler	0.20	0.6772	13500	540	25	0.14	365.69
Asphalt Cement	1	0.6772	48000	2160	25	0.68	1462.75
Asphalt	16	0.464	900000	36000	25	7.42	16704.00
Aggregate	9.2	0.6772	517500	20700	25	6.23	14018.04
RAP/Concrete	5.6	0.6772	315000	12600	25	3.79	8532.72
Total	**32.00**			**72000**		**18.26**	**41083**

PM10	PM25
k	k
0.0022	0.00054
sL	sL
0.6	0.6
W	W
27.5	27.5
P	P
60	60
N	N
365	365

Fugitive Dust

E (PM10), lb/VMT	hourly	E (PM10), lb/VMT	annual
0.04		0.04	
E (PM10), lb/hr		E (PM10), ton/yr	
0.74		**0.80**	
E (PM25), lb/VMT	hourly	E (PM25), lb/VMT	annual
0.01		0.01	
E (PM25), lb/hr		E (PM25), ton/yr	
0.18		**0.20**	

Sample calculation

Hourly

Emission Factor (lb/VMT) = $k(sL)^{0.91}(W)^{1.02}$

PM10	PM10 (lb/VMT) = $(0.0022)(0.6)^{0.91}(27.5)^{1.02}$	
	PM10 (lb/VMT) =	**0.04**
	PM10 (lb/hr) =	(18.26 VMT/hr) [0.04 lb/VMT)
	PM10 (lb/hr) =	**0.74**

Annual

Emission Factor (lb/VMT) = $k(sL)^{0.91}(W)^{1.02}(1\text{-}p/4N)$

PM10	PM10 (lb/VMT) = $(0.0022)(0.6)^{0.91}(27.5)^{1.02}$	
	PM10 (lb/VMT) =	**0.04**
	PM10 (ton/yr) =	(41083 VMT/yr) [0.04 lb/VMT)(1 ton/2000 lbs)
	PM10 (ton/yr) =	**0.80**