

<b>Mail Application To:</b> New Mexico Environment Department Air Quality Bureau New Source Review Unit 1301 Siler Road, Buliding B Santa Fe, NM 87507-3113  Phone (505) 476-4300 <a href="http://www.nmenv.state.nm.us">http://www.nmenv.state.nm.us</a>		Application No. _____  AIRS No. _____ - _____ - _____  <i>For NMED use only</i>
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## Air Quality Permit Application And Notice Of Intent For Crushing, Screening, and Sand and Gravel Operations

Acknowledgement:  I acknowledge that a pre-application meeting is available to me upon request

Filing Fee:  Permit filing fee enclosed, Check No.: \_\_\_\_\_

### Part I – General Information

#### I-A: Company Information

1	Company name:	Date application notarized:
2	Facility name:	SIC code (4 digits):
3	Company mailing address:	
4	Contact person:	Title:
5	Phone No:	Fax No:
		e-mail:

#### I-B: Current Facility Status

1	Application is for: New Facility or <input type="checkbox"/> Revision Under 20 NMAC 2.72, Sec. 219 (cite paragraph):	
2	Has this facility already been constructed? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it currently operating in New Mexico? <input type="checkbox"/> Yes <input type="checkbox"/> No
3	Is the facility currently shut down? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 1972 and operated since 1972? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Does this facility have an operating permit under 20 NMAC 2.70? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: P
6	Has this facility been issued a No Permit Required (NPR) letter? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the date of NPR letter is:
7	Has this facility been issued a Notice of Intent (NOI)? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the NOI Number is:
8	Does this facility have a construction permit (20 NMAC 2.72, Section 200.A or 200.B ) <input type="checkbox"/> Yes <input type="checkbox"/> No	
	• If yes, the permit No. is:	
9	Has this facility been issued a general permit (GCP-1, GCP-2,...)? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the registration No. is:
10	Is this a “major source” under the PSD rules? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unsure.	Is this a “major source” under Title V (20 NMAC
	• 2.70)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unsure.	Is this a major modification under the PSD rules (20 NMAC 2.74)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unsure.
11	If <i>Yes</i> or <i>Unsure</i> to any of the questions in question No. 10, contact the AQB to see if a pre-application meeting is required.	

**Table I-B: Current Facility Status (continued)**

12	What is the facility's maximum input capacity, specify units (reference here and list capacities in Attachment L if more room is required)			
•	Current	Hourly:	Daily:	Annually:
•	Proposed	Hourly:	Daily:	Annually:
13	What is the facility's maximum production rate, specify units (reference here and list capacities in Attachment L if more room is required)			
•	Current	Hourly:	Daily:	Annually:
•	Proposed	Hourly:	Daily:	Annually:

**Table I-C: Facility Location Information**

1	Section:	Range:	Township:	County:	Elevation (ft):
2	UTM Zone: <input type="checkbox"/> 12 or <input type="checkbox"/> 13	UTMH (record to one tenth of a km):		UTMV (record to one tenth of a km):	
OR	Latitude (deg., min., sec.):			Longitude (deg., hrs., min.):	
3	Name and zip code of nearest New Mexico town or tribal community:				
4	Distance and direction from nearest New Mexico town or tribal community with detailed driving instructions (attach a road map if necessary):				
5	Status of land at facility (check one): <input type="checkbox"/> Private <input type="checkbox"/> Indian/Pueblo <input type="checkbox"/> Government				
6	Name of nearest Class I area to the facility (see Figure 1):				
7	Shortest distance from facility boundary to the boundary of the nearest Class I area (record to the nearest km):				

**Table I-D: Proposed Operating Schedule** (Note: the operating schedule (D1, D2) shall become a condition of the permit)

1	Facility <b>maximum</b> operating ( $\frac{\text{hours}}{\text{day}}$ ):	( $\frac{\text{days}}{\text{week}}$ ):	( $\frac{\text{weeks}}{\text{year}}$ ):	( $\frac{\text{hours}}{\text{year}}$ ):		
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$ )? Start:			<input type="checkbox"/> AM <input type="checkbox"/> PM	End:	<input type="checkbox"/> AM <input type="checkbox"/> PM
3	Month and year of anticipated start of construction:					
4	Month and year of anticipated construction completion:					
5	Month and year of anticipated startup of new or modified facility:					
6	Will this facility operate at this site for more than one year? <input type="checkbox"/> Yes <input type="checkbox"/> No					

**Table I-E: Other**

1	Is this application in response to a Notice of Violation (NOV)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
•	If yes, NOV date:	NOV Tracking No:
2	Is air quality dispersion modeling being submitted with this application? <input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Does this facility require an "Air Toxics" permit under 20 NMAC 2.72, Part IV, Tables A and/or B in Part V? <input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Will this facility be a major source of federal Hazardous Air Pollutants? <input type="checkbox"/> Yes <input type="checkbox"/> No	
•	If yes, list applicable subparts in 40 CFR 61 & 63:	

## Part II – Required Attachments

The following Attachments are required, please label each accordingly. A complete application shall include:

Attachment A A process flow sheet and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. Numbering system should cross reference with Attachment B.

Attachment B A plot plan drawn to scale, showing emissions points, structures, tanks, and fences of property owned, leased, or under direct control of the applicant.

Attachment C All calculations used to determine both the hourly and annual controlled and uncontrolled emission rates. Reference where emission factors were obtained. If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units the calculations represent.

Attachment D Information Used to Determine Emissions

- If manufacturer data are used, include specifications for emissions units and control equipment.
- If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly affect emission rates.
- If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
- If an older version of AP-42 is used, include a complete copy of the section.
- If an EPA document or other material is referenced, include a complete copy.
- Fuel specifications sheet.
- If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model.

Attachment E A map such as a USGS 7.5 minute topographic quadrangle showing the exact location of the facility. The map shall also include the following:

The UTM or Lat/long coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the facility of 5km (3.1 miles)	The nearest occupied structure within 5 km
Topographic features of the area	Access and haul roads
The name of the map	Facility property boundaries
A scale	The area which will be restricted to public access

Attachment F Proof of public notice: Include a copy of the certified letter receipts, a list of the places where the public notice has been posted, and: (see guidance document)

a sample of the letters sent to land owners	a sample and verification of the local postings
a sample of the letters sent to municipalities	a copy of the display ad and its affidavit of publication
a copy of the announcement sent to a local radio station	a copy of the classified ad and its affidavit of publication

Attachment G A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process.

Attachment H A PSD applicability determination for the facility. For PSD major facilities applying for a significant permit revision, use the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

Attachment I A discussion demonstrating compliance with each applicable state & federal regulation. If there is a state or federal regulation for your facility's source category that does not apply to your facility, explain why. For example 40 CFR 60 Subpart OOO (crushers), 40 CFR 63 Subpart HHH (HAPs), or 20 NMAC 2.74 (PSD major sources).

- Attachment J A preliminary operational plan defining the measures to be taken to mitigate facility emissions during malfunction, startup, or shutdown.
- Attachment K An air quality dispersion modeling demonstration (if applicable) as outlined in the Air Quality Bureau's *Dispersion Modeling Guidelines*.
- Attachment L Other relevant information. Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field.

Submit the original signed and notarized copy of the application package and;

- 1) One working copy for department use, and
- 2) One copy if air dispersion modeling is included (include one (1) set of disks with input and output files), and
- 3) One copy if public notice was required, and
- 4) If subject to PSD review under 20 NMAC 2.74 (PSD) one copy for US EPA, one copy for each federal land manager affected (NPS, USFS, USFWS, ), and one copy for each affected regulatory agency other than the Air Quality Bureau.

## Part III Specific Facility Information

<b>Table III-A: Plant Information</b>					
Plant capacity in (raw material)		tons/hr	Area of disturbed earth		acres
Plant capacity out (product produced)		tons/hr	Area of storage pile & operations		acres
Material moisture content (default 2%) <sup>1</sup>		%	Electrical power required		kW
Area with restricted public access		Acres	Direct drive power required		HP

<sup>1</sup>If a moisture content greater than the default is used, an independent lab analysis using appropriate ASTM testing methods shall be included in Attachment C.

<b>Table III-B: Equipment Summary List</b>			
<b>Equipment</b>	<b>Number of Units</b>	<b>Equipment</b>	<b>Number of Units</b>
Power Generators/Engines		Conveyors, Transfer	
Crushers		Conveyors, Stacker	
Screens			



## Part IV – Emissions Calculations

TSP Road Emissions [AP-42, Fifth Edition, Volume I, CHAPTER 13, Miscellaneous Sources, 13.2.2 Unpaved Roads (Supplement E)]									
Variable →	T	L	VMT	W		E*	PER	EF	PTE
Road Segment	Average Number of Round Trips per Hour	One way road length (miles)	Vehicle Mile Traveled per Hour (miles/hr)	Average (Full + Empty)/2 Vehicle Weight (tons)	Average Load Weight (tons)	TSP Emission Rate (lb/VMT)	TSP Emission Rate (lb/hr)	Haul Road Control Efficiency (Table 4-B)	Hourly TSP PTE (lb/hr)
TSP			$2 \times T \times L = \text{VMT}$			$2.77 \times W^{0.5} = E^*$	$\text{VMT} \times E = \text{PER}$		$\text{PER} \times \text{EF} = \text{PTE}$
TSP			$2 \times T \times L = \text{VMT}$			$2.77 \times W^{0.5} = E^*$	$\text{VMT} \times E = \text{PER}$		$\text{PER} \times \text{EF} = \text{PTE}$
TSP			$2 \times T \times L = \text{VMT}$			$2.77 \times W^{0.5} = E^*$	$\text{VMT} \times E = \text{PER}$		$\text{PER} \times \text{EF} = \text{PTE}$
								← Sum →	

PM10 Road Emissions [AP-42, Fifth Edition, Volume I, CHAPTER 13, Miscellaneous Sources, 13.2.2 Unpaved Roads (Supplement E)]									
Variable →	T	L	VMT	W		E*	PER	EF	PTE
Road Segment	Average Number of Round Trips per Hour	One way road length (miles)	Vehicle Mile Traveled per Hour (miles/hr)	Aver Average (Full + Empty)/2 Vehicle Weight (tons)	Average Load Weight (tons)	PM10 Emission Rate (lb/VMT)	PM10 Emission Rate (lb/hr)	Haul Road Control Efficiency (Table IV-B)	Hourly PM10 PTE (lb/hr)
PM10			$2 \times T \times L = \text{VMT}$			$0.805 \times W^{0.4} = E^*$	$\text{VMT} \times E = \text{PER}$		$\text{PER} \times \text{EF} = \text{PTE}$
PM10			$2 \times T \times L = \text{VMT}$			$0.805 \times W^{0.4} = E^*$	$\text{VMT} \times E = \text{PER}$		$\text{PER} \times \text{EF} = \text{PTE}$
PM10			$2 \times T \times L = \text{VMT}$			$0.805 \times W^{0.4} = E^*$	$\text{VMT} \times E = \text{PER}$		$\text{PER} \times \text{EF} = \text{PTE}$
								← Sum →	

\*E =  $k \times (s/12)^a \times (W/3)^b / (M_{dry}/0.2)^c$  = lbs/VMT, where  $M_{dry} = 0.2\%$ , , AP-42, Section 13.2.2 (9/98) Equations 1 & 2

Table IV-B: Haul Road Control Methods and Control Factors					
Control Method	Efficiency (Eff.)	Efficiency Factor (EF)	Control Method	Efficiency (Eff.)	Efficiency Factor (EF)
Base Course <u>or</u> Watering	60%	0.40	Base Course <u>and</u> Surfactants	90%	0.10
Base Course <u>and</u> Watering	80%	0.20	Paved <u>and</u> Swept	95%	0.05

Table IV-C: Emissions to Atmosphere (Before Control Measures) ( Use additional sheets of necessary)									
☐ By checking the box, I acknowledge that 20 NMAC 2.72 is applicable to this facility and choose not to fill out this page.									
Unit No.	Process or Operation	TSP	NO <sub>x</sub>	CO	VOC	SO <sub>2</sub>	Other (Type)	Other	Estimation Method
Gen/Eng No. 1		$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$		$\frac{\text{lb}}{\text{hr}}$	<input type="checkbox"/> Manufacture <input type="checkbox"/> AP-42 ____ <input type="checkbox"/> Test
		$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$		$\frac{\text{ton}}{\text{yr}}$	
Gen/Eng No. 2		$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$		$\frac{\text{lb}}{\text{hr}}$	<input type="checkbox"/> Manufacture <input type="checkbox"/> AP-42 ____ <input type="checkbox"/> Test
		$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$		$\frac{\text{ton}}{\text{yr}}$	
		$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$		$\frac{\text{lb}}{\text{hr}}$	<input type="checkbox"/> Manufacture <input type="checkbox"/> AP-42 ____ <input type="checkbox"/> Test
		$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$		$\frac{\text{ton}}{\text{yr}}$	
<b>Crusher:</b> Fill in the sum of the crusher processing rates and the annual operating hours, then solve		$\frac{\text{lb}}{\text{hr}}$	<b>TSP(lb/hr) = 0.28(lb/ton) × _____ (ton/hr)</b> (sum of crusher process rates)						AP42 - 8.19 9/1985
		$\frac{\text{ton}}{\text{yr}}$	<b>TSP(ton/yr) = 0.0005(ton/lb) × _____ (lb/hr) × _____ (hr/yr)</b> (TSP(lb/hr)) (hours per year)						
<b>Screens:</b> Fill in the sum of the screen processing rates and the annual operating hours, then solve		$\frac{\text{lb}}{\text{hr}}$	<b>TSP(lb/hr) = 0.16(lb/ton) × _____ (ton/hr)</b> (sum of screen process rates)						AP42 - 8.19 9/1985
		$\frac{\text{ton}}{\text{yr}}$	<b>TSP(ton/yr) = 0.0005(ton/lb) × _____ (lb/hr) × _____ (hr/yr)</b> (TSP(lb/hr)) (hours per year)						
<b>Conveyors (Transfer):</b> Fill in the sum of the transfer conveyor processing rates and the annual operating hours, then solve		$\frac{\text{lb}}{\text{hr}}$	<b>TSP(lb/hr) = 0.029(lb/ton) × _____ (ton/hr)</b> (sum of conveyor process rates)						AP42 - 8.19 9/1985
		$\frac{\text{ton}}{\text{yr}}$	<b>TSP(ton/yr) = 0.0005(ton/lb) × _____ (lb/hr) × _____ (hr/yr)</b> (TSP(lb/hr)) (hours per year)						
<b>Conveyors (Stacker):</b> Fill in the sum of the stacker conveyor processing rates and the annual operating hours, then solve		$\frac{\text{lb}}{\text{hr}}$	<b>TSP(lb/hr) = 0.13(lb/ton) × _____ (ton/hr)</b> (sum of conveyor process rates)						AP42 - 8.19 9/1985
		$\frac{\text{ton}}{\text{yr}}$	<b>TSP(ton/yr) = 0.0005(ton/lb) × _____ (lb/hr) × _____ (hr/yr)</b> (TSP(lb/hr)) (hours per year)						
<b>Road Emissions:</b> Fill in sum of PER (lb/hr) (from table 4-A), annual operating hours, and then solve.		$\frac{\text{lb}}{\text{hr}}$	<b>TSP(lb/hr) = _____ (lb/hr)</b> (sum of PER, from Table 4-A)						AP42 - 13.2.2 9/1998
		$\frac{\text{ton}}{\text{yr}}$	<b><sup>3</sup>TSP(ton/yr) = 0.0005(ton/lb) × _____ (lb/hr) × _____ (hr/yr) × 0.81</b> (TSP(lb/hr)) (hours per year)						
<b>Aggregate Handling:</b> fill in the plant capacity (ton/hr), annual operating hours, and then solve.		$\frac{\text{lb}}{\text{hr}}$	<b><sup>1,2</sup>TSP(lb/hr) = 0.03 (lb/ton) × _____ (ton/hr)</b> (process rate)						AP42 - 13.2.4 1/1995
		$\frac{\text{ton}}{\text{yr}}$	<b>TSP(ton/yr) = 0.0005(ton/lb) × _____ (lb/hr) × _____ (hr/yr)</b> (TSP(lb/hr)) (hours per year)						

<sup>1</sup>TSP (lb/hr) = k x (0.0032) x (U/5)<sup>1.3</sup> / (M/2)<sup>1.4</sup> x 3 x (plant capacity), AP-42, 1/95, Section 13.2.4 where U = 15 mph and M = 2%

<sup>2</sup>If raw material is not mined onsite, divide result by 1.5

<sup>3</sup>The annual haul road emission was multiplied by 0.81 to account for 70 rain days per year.

Table IV-D: Emissions to atmosphere (After Control Measures) ( Use additional sheets of necessary)										
Unit No.	Control Equipment		TSP	NO <sub>x</sub>	CO	VOC	SO <sub>2</sub>	Other (Type)	Other	Estimation Method
	Type	Manufacture and Model No.								
Gen/Eng No. 1			$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$		$\frac{\text{lb}}{\text{hr}}$	<input type="checkbox"/> Manufacture <input type="checkbox"/> AP-42 ____ <input type="checkbox"/> Test
			$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$		$\frac{\text{ton}}{\text{yr}}$	
Gen/Eng No. 2			$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$		$\frac{\text{lb}}{\text{hr}}$	<input type="checkbox"/> Manufacture <input type="checkbox"/> AP-42 ____ <input type="checkbox"/> Test
			$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$		$\frac{\text{ton}}{\text{yr}}$	
			$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$	$\frac{\text{lb}}{\text{hr}}$		$\frac{\text{lb}}{\text{hr}}$	<input type="checkbox"/> Manufacture <input type="checkbox"/> AP-42 ____ <input type="checkbox"/> Test
			$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$	$\frac{\text{ton}}{\text{yr}}$		$\frac{\text{ton}}{\text{yr}}$	
<b>Crusher:</b> Fill in total number of crushers and the annual operating hours, then solve.			$\frac{\text{lb}}{\text{hr}}$	$\text{TSP}(\text{lb/hr}) = 0.39(\text{lb/hr}) \times \frac{\text{_____}}{\text{(total number of crushers)}}$						15% Opacity Based
			$\frac{\text{ton}}{\text{yr}}$	$\text{TSP}(\text{ton/yr}) = 0.0005(\text{ton/lb}) \times \frac{\text{_____}}{\text{(TSP(lb/hr))}} (\text{lb/hr}) \times \frac{\text{_____}}{\text{(hours per year)}} (\text{hr/yr})$						
<b>Screens:</b> Fill in total number of screens and the annual operating hours, then solve.			$\frac{\text{lb}}{\text{hr}}$	$\text{TSP}(\text{lb/hr}) = 0.25 (\text{lb/hr}) \times \frac{\text{_____}}{\text{(total number of screens)}}$						10% Opacity Based
			$\frac{\text{ton}}{\text{yr}}$	$\text{TSP}(\text{ton/yr}) = 0.0005(\text{ton/lb}) \times \frac{\text{_____}}{\text{(TSP(lb/hr))}} (\text{lb/hr}) \times \frac{\text{_____}}{\text{(hours per year)}} (\text{hr/yr})$						
<b>Conveyors (Transfer):</b> Fill in total number of transfer conveyors and the annual operating hours, then solve.			$\frac{\text{lb}}{\text{hr}}$	$\text{TSP}(\text{lb/hr}) = 0.25 (\text{lb/hr}) \times \frac{\text{_____}}{\text{(total number of transfers)}}$						10% Opacity Based
			$\frac{\text{ton}}{\text{yr}}$	$\text{TSP}(\text{ton/yr}) = 0.0005(\text{ton/lb}) \times \frac{\text{_____}}{\text{(TSP(lb/hr))}} (\text{lb/hr}) \times \frac{\text{_____}}{\text{(hours per year)}} (\text{hr/yr})$						
<b>Conveyors (Stacker):</b> Fill in total number of stacker conveyors and the annual operating hours, then solve.			$\frac{\text{lb}}{\text{hr}}$	$\text{TSP}(\text{lb/hr}) = 0.25 (\text{lb/hr}) \times \frac{\text{_____}}{\text{(total number of stackers)}}$						10% Opacity Based
			$\frac{\text{ton}}{\text{yr}}$	$\text{TSP}(\text{ton/yr}) = 0.0005(\text{ton/lb}) \times \frac{\text{_____}}{\text{(TSP(lb/hr))}} (\text{lb/hr}) \times \frac{\text{_____}}{\text{(hours per year)}} (\text{hr/yr})$						
<b>Road Emissions:</b> Fill in sum of PTE (lb/hr) (from table IV-A), annual operating hours, and then solve.			$\frac{\text{lb}}{\text{hr}}$	$\text{TSP}(\text{lb/hr}) = \frac{\text{_____}}{\text{(sum of PTE from, Table 4-A)}} (\text{lb/hr})$						AP42 - 13.2.2 9/1998
			$\frac{\text{ton}}{\text{yr}}$	$^3\text{TSP}(\text{ton/yr}) = 0.0005(\text{ton/lb}) \times \frac{\text{_____}}{\text{(TSP(lb/hr))}} (\text{lb/hr}) \times \frac{\text{_____}}{\text{(hours per year)}} (\text{hr/yr}) \times 0.81$						
<b>Aggregate Handling:</b> Fill in the plant capacity (ton/hr), annual operating hours, and then solve.			$\frac{\text{lb}}{\text{hr}}$	$^{1,2}\text{TSP}(\text{lb/hr}) = 0.03 (\text{lb/ton}) \times \frac{\text{_____}}{\text{(process rate)}} (\text{ton/hr})$						AP42 - 13.2.4 1/1995
			$\frac{\text{ton}}{\text{yr}}$	$\text{TSP}(\text{ton/yr}) = 0.0005(\text{ton/lb}) \times \frac{\text{_____}}{\text{(TSP(lb/hr))}} (\text{lb/hr}) \times \frac{\text{_____}}{\text{(hours per year)}} (\text{hr/yr})$						

<sup>1</sup>TSP (lb/hr) = k x (0.0032) x (U/5)<sup>1.3</sup> / (M/2)<sup>1.4</sup> x 3 x (plant capacity), AP-42, 1/95, Section 13.2.4 where U = 15 mph and M = 2%

<sup>2</sup>If raw material is not mined onsite, divide result by 1.5

<sup>3</sup>The annual haul road emission was multiplied by 0.81 to account for 70 rain days per year.

Table IV-E: Emissions to atmosphere (After Control Measures) ( Use additional sheets of necessary)			
Type	PM10		Estimation Method
<b>Crusher:</b> Fill in total number of crushers and the annual operating hours, then solve.	$\frac{\text{lb}}{\text{hr}}$	$\text{PM10 (lb/hr)} = 0.19 \text{ (lb/hr)} \times \frac{\text{_____}}{\text{(total number of crushers)}}$	15% Opacity Based
	$\frac{\text{ton}}{\text{yr}}$	$\text{PM10 (ton/yr)} = 0.0005(\text{ton/lb}) \times \frac{\text{_____ (lb/hr)}}{\text{(PM10 (lb/hr))}} \times \frac{\text{_____ (hr/yr)}}{\text{(hours per year)}}$	
<b>Screens:</b> Fill in total number of screens and the annual operating hours, then solve.	$\frac{\text{lb}}{\text{hr}}$	$\text{PM10 (lb/hr)} = 0.12 \text{ (lb/hr)} \times \frac{\text{_____}}{\text{(total number of screens)}}$	10% Opacity Based
	$\frac{\text{ton}}{\text{yr}}$	$\text{PM10 (ton/yr)} = 0.0005(\text{ton/lb}) \times \frac{\text{_____ (lb/hr)}}{\text{(PM10 (lb/hr))}} \times \frac{\text{_____ (hr/yr)}}{\text{(hours per year)}}$	
<b>Conveyors (Transfer):</b> Fill in total number of transfer conveyors and the annual operating hours, then solve.	$\frac{\text{lb}}{\text{hr}}$	$\text{PM10 (lb/hr)} = 0.12 \text{ (lb/hr)} \times \frac{\text{_____}}{\text{(total number of transfers)}}$	10% Opacity Based
	$\frac{\text{ton}}{\text{yr}}$	$\text{PM10 (ton/yr)} = 0.0005(\text{ton/lb}) \times \frac{\text{_____ (lb/hr)}}{\text{(PM10 (lb/hr))}} \times \frac{\text{_____ (hr/yr)}}{\text{(hours per year)}}$	
<b>Conveyors (Stacker):</b> Fill in total number of stacker conveyors and the annual operating hours, then solve.	$\frac{\text{lb}}{\text{hr}}$	$\text{PM10 (lb/hr)} = 0.12 \text{ (lb/hr)} \times \frac{\text{_____ (lb/hr)}}{\text{(total number of stackers)}}$	10% Opacity Based
	$\frac{\text{ton}}{\text{yr}}$	$\text{PM10 (ton/yr)} = 0.0005(\text{ton/lb}) \times \frac{\text{_____ (lb/hr)}}{\text{(PM10 (lb/hr))}} \times \frac{\text{_____ (hr/yr)}}{\text{(hours per year)}}$	
<b>Road Emissions:</b> Fill in sum of PTE (lb/hr) (from table IV-A), annual operating hours, and then solve.	$\frac{\text{lb}}{\text{hr}}$	$\text{PM10(lb/hr)} = \frac{\text{_____ (lb/hr)}}{\text{(PTE from, Table 4-A)}}$	AP42 - 13.2.2 9/1998
	$\frac{\text{ton}}{\text{yr}}$	$^3\text{PM10(ton/yr)} = 0.0005(\text{ton/lb}) \times \frac{\text{_____ (lb/hr)}}{\text{(TSP(lb/hr))}} \times \frac{\text{_____ (hr/yr)}}{\text{(hours per year)}} \times 0.81$	
<b>Aggregate Handling:</b> fill in the plant capacity (ton/hr), annual operating hours, and then solve.	$\frac{\text{lb}}{\text{hr}}$	$^{1,2} \text{PM10 (lb/hr)} = 0.014 \text{ (lb/ton)} \times \frac{\text{_____ (ton/hr)}}{\text{(process rate)}}$	AP42 - 13.2.4 1/1995
	$\frac{\text{ton}}{\text{yr}}$	$\text{PM10 (ton/yr)} = 0.0005(\text{ton/lb}) \times \frac{\text{_____ (lb/hr)}}{\text{(PM10 (lb/hr))}} \times \frac{\text{_____ (hr/yr)}}{\text{(hours per year)}}$	

<sup>1</sup>PM10 (lb/hr) = k x (0.0032) x (U/5)<sup>1.3</sup> / (M/2)<sup>1.4</sup> x 3 x (plant capacity), AP-42, 1/95, Section 13.2.4 where U = 15 mph and M = 2%

<sup>2</sup>If raw material is not mined onsite, divide result by 1.5.

<sup>3</sup>The annual haul road emission was multiplied by 0.81 to account for 70 rain days per year.

## Part 5 – Certification

Company Name: \_\_\_\_\_

I, \_\_\_\_\_, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, upon my oath or affirmation, before a notary of the State of \_\_\_\_\_.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Scribed and sworn before me on this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

My authorization as a notary of the State of \_\_\_\_\_ expires on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Notary's Printed Name

**FIGURE 1**

