

**PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY
Air Program**

33 N. Stone Avenue ▪ Suite 700 ▪ Tucson, AZ 85701 ▪ Phone: (520) 724-7400

**GENERAL AIR QUALITY
PERMIT**

FOR

Non-Metallic Material Handling Facilities

(Crushing & Screening, Concrete Batch and Hot Mix Asphalt Plants)

APPLICATION PACKAGE

I. INTRODUCTION

The Pima County Department of Environmental Quality (PDEQ) has developed this general air quality permit and application package for those sources required to obtain an air quality permit for individual or co-located Non-NSPS Crushing and Screening equipment, NSPS Crushing and Screening equipment, Concrete Batch Plants and Hot Mix Asphalt Plants.

The general permit and application package are based on ADEQ's General Permits for Concrete Batch Plants, Crushing and Screening Plants and Hot Mix Asphalt Plants.

The general permit does not apply to a Class I source and imposes permit-wide limits that assure that the "source" remains a non-major source with emission rates below the major source thresholds for criteria and hazardous air pollutants, and in order to avoid federal or other applicable requirements. In order to qualify for coverage under this general permit, the permitted emissions must be below the following emission limits:

Table 1: Emission Limitations

Maximum Permitted Emission Limits / Controlled Potential to Emit, tons/year								
Conventional or Criteria Air Pollutant								HAP(s)
PM _{2.5}	PM ₁₀	PM	NO _x	VOC	CO	SO ₂	Lead	Total
< 90	< 90	< 90	< 90	< 90	< 90	< 90	< 0.6	< 10

If the applicant is required to obtain a permit under Title IV of the Act (Acid Deposition Control) or Title V of the Act (Permits); the applicant is not eligible for coverage under this general permit.

The general permit will streamline the permitting process for numerous sources which would otherwise require substantially similar individual source permits. This action shall reduce PDEQ's workload and afford decreased permitting timeframes. To obtain coverage under the general permit, the applicant shall complete the attached general permit application forms, as applicable in order to obtain an *Authorization to Operate* (ATO).

This application package has been created to aid the applicant in submitting an application for this general permit. Applicants must complete and submit this package with an application fee in the form of a check or money order payable to PDEQ in the amount of \$540. Please mail the application package and fee to:

**Pima County Department of Environmental Quality
Air Program
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701**

If, after reviewing this package in its entirety, the applicant has questions regarding the application process, they may be directed to PDEQ in writing at the above address or by telephone to: **(520) 724-7400**.

DISCLAIMERS

Completion of this application package does not void the right of the Control Officer under PCC 17.13.010 of the Pima County Code (PCC) to require the applicant to provide supplemental information before processing the application and issuing or denying an Authorization to Operate (ATO) under this General Permit.

II. APPLICABILITY

- A. This general permit allows for coverage of individual stationary or portable sources with potential co-located Hot Mix Asphalt Plants (HMAP), Crushing & Screening Plant (C&S) and/or Concrete Batch Plant (CBP), operating in Pima County.
- B. Throughput for all equipment covered under the permit will be restricted such that the emission limits for the pollutants do not exceed limits identified in Table 1 above. The throughput limits, if applicable, will be specified on the Permittee's Authorization to Operate (ATO).

III. ATO

- A. Any source that is qualified to be covered by this general permit may apply to PDEQ for authority to operate under this general permit.
- B. If the applicant meets the criteria for coverage under this general permit, an Authorization to Operate (ATO) will be issued for each drum dryer, asphalt heater, pug mill, concrete batch plant, water heater, silo, crusher, screen and internal combustion engine (except those which are integrated into other process equipment). The ATO attest to the parties' formal agreement to abide by all applicable conditions contained in the general permit. Other associated pieces of equipment do not require an individual ATO but are subject to the provisions of this general permit.

IV. APPLICATION INSTRUCTIONS

A. Complete and sign the STANDARD PERMIT APPLICATION FORM.

The applicant shall submit the Standard Application on Page 6 and supply all information required in accordance with PCC 17.13.080 & PCC 17.13.010. Items 1 through 4 of the Standard Application Form are fairly self-explanatory. The rest are explained below in detail:

- The "Responsible Official" referred to in Item #5 is the owner or a partner of the company in most cases. He or she may also be the president or vice-president of a principle business function for larger companies. If there is a question as to who is the responsible official, refer to PCC 17.04.340.A (200).
- Item #6 asks for the Invoicing Contact. This should be the person and address to whom PDEQ may send the annual invoice if it is not the Responsible Official listed in Item #5.
- Item #7 asks for the Plant Site Manager or Contact Person. This should be the person that PDEQ may contact for additional information.
- Item #8, the "General Nature of Business" should describe the primary activity the plant is engaged in. It is important to provide the standard industrial classification code as this is necessary to determine applicability for certain regulations. The permit class is typically a Class II permit for C&S and HMAP. Stand-alone CBP covered under this general permit are typically Class III permits unless there are NSPS or NESHAP fuel burning equipment located at the CBP.
- Under Item #9, if the "other" box is checked, please be specific as to the type of organization.
- Item #10 asks for the Permit Application Basis, which indicates what type of permit is necessary. The following steps should be utilized when filling out Item #10:
 - If the equipment has never been permitted, the box titled "New Source" should be checked.

- If the equipment is already permitted, the box titled “Renewal of Existing Permit” should be checked and the current ATO number must be included on the line titled “For renewal or modification, include existing permit number”.
- If the application is for new or renewal coverage under the general permit, the box titled “General Permit” should be checked.
- For new sources the “Date of Commencement of Construction or Modification” is the expected date that construction will begin or the date an engine is ordered. For existing sources this date need not be defined.

B. Complete the Equipment Lists.

PDEQ needs to be able to identify all pieces of equipment covered under the general permit. Use Pages 7, 8, and 9 to provide a list of all equipment including boilers, non-emergency generators and pollution control devices to be permitted. List emergency generators on the equipment list on Page 10. Separate forms must be used for equipment associated with HMAP, C&SP and CBP. Please make additional copies (Pages 7 through 10), if required.

The lists need to include the type of equipment, make, model, maximum rated capacity, serial number, manufacture date, equipment identification number (if available), the type of fuel burned in fuel burning equipment for each piece of equipment and the applicable opacity limit as specified in the general permit while the equipment is operating.

C. Emission Calculations

An Excel spreadsheet was developed by ADEQ and modified by PDEQ to assist applicants in completing their emission calculations. The emissions calculation spreadsheet is available upon request.

If the calculation spreadsheet is used, the applicant is not required to complete Tables 1 through 17 of this application and need only to submit Pages 6 through 10 and 22 with the calculation spreadsheet. Otherwise, the applicant must complete and submit pages 6 through 22. Tables 1 through 17 (Pages 11 through 21) provide worksheets to assist the applicant in calculating emission rates. Emissions factors are based on AP-42, Compilation of Air Pollutant Emission Factors by Environmental Protection Agency.

The applicant may, in some cases, choose to use emission factors provided by manufacturer data or test results. In such an event, supporting documents (manufacturer’s data sheet/test results etc.) documenting these factors must be submitted along with the application.

Table 17 (Page 20) should be used to calculate the facility wide annual emissions and if applicable the annual synthetic minor throughput limitation.

Table 18 (Page 21) should be used to calculate an alternative throughput limitation proposed by the Permittee that would still maintain emissions below the limits in Table 1 (Page 2) of the application packet for facilities that have a co-located HMAP, C&S and/or CBP.

D. Complete the Compliance Certification

The compliance certification form (Page 22) must be filled out and signed by the Responsible Official (this is the same person that signs the standard permit application form).

E. New Sources

For new sources, in order to facilitate the application process, the following additional information may be required and should be attached to the application if readily available.

- A map of the current location, depicting the plant perimeter and point of entry should be provided with the application for new sources. This may be a city map, topographical map or any map, which clearly shows the location. Please mark the location of the plant on the map and include driving directions to the plant site from the nearest highway.
- A description of the plant and its processes should be provided with the application. A process description is a brief description of the facility.

F. Application Fee

An application fee of **\$540** must be submitted by applicants applying for coverage under the general permit.

Please make your **check or money order payable to the Pima County Department of Environmental Quality (PDEQ)**. The applicant may also call the service desk at the department and arrange for **payment by phone (MasterCard or Visa) or online as available**. In addition to the application filing fee, Permittee's are required to pay an annual fee in accordance with PCC 17.13.250 which is invoiced separately.

G. Application Submittal

The permit application can be submitted via email to PDEQ at the following address:

Air.permits@pima.gov

Alternately, the application packet and fee may be mailed to the following address:

**Pima County Department of Environmental Quality
Air Program
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701**

If, after reviewing this package in its entirety, the applicant has questions regarding the application process, they may be directed to PDEQ in writing at the above address or by telephone to: **(520) 724-7400**.

**STANDARD PERMIT APPLICATION FORM
FOR CLASS II/III GENERAL PERMITS**

1. Permit to be issued to (Arizona Corporate Commission Registered Name): _____

2. Mailing Address: _____
City: _____ State: _____ ZIP: _____
3. Plant Name (if different than item #1): _____
4. Proposed Equipment/Plant Location Address: _____
City: _____ State: _____ ZIP: _____
5. Name of Responsible Official: _____
Official Title of RO: _____
Phone: _____ Email: _____
6. Invoicing Contact (IC) _____
Phone: _____ Email: _____
IC Mailing Address: _____
City: _____ State: _____ ZIP: _____
7. Plant/Site Manager/Contact Person: _____
Phone: _____ Email: _____
8. General Nature of Business: _____
Standard Industrial Classification Code(s): _____ Permit Class: _____
9. Type of Organization: Corporation Individual Owner Partnership Government Entity Other
10. Permit Application Basis (Check all that apply): New Source General Permit Portable Source
 Renewal Revision: Administrative Minor Significant Existing Permit # _____
Date of Commencement of Construction or Modification: _____
Is any of the equipment to be leased to another individual or entity? Yes No
12. Signature of Responsible Official of Organization: _____ Date: _____

Equipment List: Crushing and Screening Plant

Source Equipment ID	Type of Equipment	Manufacturer	Model	Serial Number	Maximum Rated Capacity	Construction Date ¹	Fuel Used (If Applicable)	NSPS (Y/N)	Opacity Limit ² %

1. Date of commencement of Construction, Modification or Reconstruction
2. All Non-NSPS C & S existing equipment has a 20% opacity limit. Refer to Table 2 & 3 to 40 CFR 60 Subpart OOO for opacity limits for NSPS affected facilities (equipment).

Equipment List: Hot Mix Asphalt Plant

Source Equipment ID	Type of Equipment	Manufacturer	Model	Serial Number	Maximum Rated Capacity	Construction Date¹	Fuel Used (If Applicable)	NSPS (Y/N)	Opacity Limit² %

1. Date of commencement of Construction, Modification or Reconstruction
2. All HMAP equipment has a 20% opacity limit except any RAP crushers that may be subject to 40 CFR Subpart OOO.

Equipment List: Concrete Batch Plant

Source Equipment ID	Type of Equipment	Manufacturer	Model	Serial Number	Maximum Rated Capacity	Construction Date¹	Fuel Used (If Applicable)	NSPS (Y/N)	Opacity Limit² %

- 1. Date of commencement of Construction, Modification or Reconstruction
- 2. All CBP equipment has a 20% opacity limit.

Equipment List: Emergency Generators

Source Equipment ID	Manufacturer	Model	Serial Number	Maximum Rated Capacity (hp)	Construction Date ¹	Fuel Used	NESHAP (Y/N)	NSPS (Y/N)

1. Date of commencement of Construction, Modification or Reconstruction

Emissions from the Crushing & Screening (C&S) Plant

A. Particulate Matter Emissions from the C&S Plant

Table 1: Emissions from C&S Plant

Emission Source	Rated Capacity	Number of Operations	Emission Factor	Emissions
	Tons per Hour	Number	PM ₁₀	PM ₁₀
	a	b	Pounds per Ton c	Pounds per Hour A = a x b x c
Batch Drop Operation			0.000526	
Batch Drop Operation			0.000526	
Batch Drop Operation			0.000526	
Batch Drop Operation			0.000526	
Feed Hopper			0.000526	
Feed Hopper			0.000526	
Feed Hopper			0.000526	
Feed Hopper			0.000526	
Crusher			0.00054	
Crusher			0.00054	
Crusher			0.00054	
Fines Crusher			0.0012	
Screen			0.00074	
Screen			0.00074	
Screen			0.00074	
Screen			0.00074	
Fine Screen			0.0022	
Fine Screen			0.0022	
Stackers			0.000526	
Stackers			0.000526	
Stackers			0.000526	
Transfer Points			0.000046	
Transfer Points			0.000046	
Transfer Points			0.000046	
Transfer Points			0.000046	
Transfer Points			0.000046	
Transfer Points			0.000046	
Transfer Points			0.000046	
Total Emissions				

Emissions from column A of Table 1 must be transferred to C&S, Total Emissions, Table 3

B. Internal Combustion Engines (ICEs) associated with C&S Plant

Total HP of all diesel ICEs with individual HP of less than (<) 600 HP: _____ (a) HP

Total HP of all diesel ICEs with individual HP of greater than or equal to (≥) 600 HP: _____ (b) HP

Total HP of all natural gas / LPG fired ICEs: _____ (c) HP

Table 2: Emissions from ICEs associated with C&S Plant

Pollutant	Emission Factor			Emissions			Total Emissions from all ICEs	
	Diesel Engines (< 600 HP)	Diesel Engines (≥ 600 HP)	Natural Gas/LPG-Fired Engines	Diesel Engines (< 600 HP)	Diesel Engines (≥ 600 HP)	Natural Gas/LPG-Fired Engines		
	Pounds per hp-hr			Pounds per hour (PPH)				PPH
	d	e	f	A = a x d	B = b x e	C = c x f		E1 = A + B + C
PM ₁₀	0.0022	0.0007	0.0003381					
CO	0.00668	0.0055	0.02604					
NO _x	0.031	0.024	0.02856					
SO ₂	0.0000121	0.0000121	0.0000041					
VOCs	0.00247	0.000705	0.00084					

Emissions from column E1 of Table 2 must be transferred to C&S, Total Emissions, Table 3.

C. Total Emissions from C&S Plant

Table 3: Total Emissions from C&S Plant

Pollutant	C&S Emissions	C&S Generators	Total C&S Plant Emissions
	Table 1	Table 2	A
	PPH	PPH	PPH
PM ₁₀			
CO			
NO _x			
SO _x			
VOC			

Total C&S emissions from column A of Table 3 must be transferred to Table 17 for calculation of facility-wide emissions and synthetic minor operating hour limitations.

Hot Mix Asphalt Plant (HMAP) Emissions

A. Particulate Matter emissions from Drum Dryer

Table 4 is provided to calculate potential to emit (PTE) for particulate matter emissions from the rotary drum dryer. The factors are taken from Section 11.1, AP-42. The applicant may, instead, choose to use emission factors provided by the manufacturer or test results. In such an event, supporting documents (manufacturer's data sheet/test results etc.) documenting these factors must be submitted along with the application. Also, the Permittee will be subject to annual testing requirements for the use of any site-specific stack test data as emission factors.

Rated capacity of the HMAP: _____ (a) tons per hour

Table 4: Particulate Matter Emissions

Pollution Control Device	AP-42 Emission Factor	Emission Factor (other)	Emissions
	PM ₁₀	PM ₁₀	PM ₁₀
	Pound Per Ton (PPT) of Asphalt	PPT of Asphalt	Pounds per Hour (PPH)
	b	c	A = a x c
Baghouse	0.023		
Venturi Scrubber	0.019		

Emissions from column A of Table 4 must be transferred to HMAP, Total Emissions, Table 11.

B. Other Criteria Pollutant Emissions from Dryer

Table 5 is provided to calculate PTE for other criteria pollutants from the rotary drum dryer. The factors are taken from Section 11.1, AP-42. The applicant may, instead, choose to use emission factors provided by the manufacturer or test results. In such an event, supporting documents (manufacturer's data sheet/test results etc.) documenting these factors must be submitted along with the application. Also, the Permittee will be subject to annual testing requirements for the use of any site-specific stack test data as emission factors.

Rated capacity of the HMAP: _____ (a) tons per hour

Type of fuel used: _____

Table 5: Other Criteria Pollutants from Dryer

Pollutant	Emission Factor (PPT of Asphalt)				Emissions (lb/hr)
	Natural Gas	Fuel Oil #2 / Diesel	Waste Oil / Fuel Oil #6	Other	
	b				A = a x b
CO	0.13	0.13	0.13		
NO _x	0.026	0.055	0.055		
SO _x	0.0034	0.011	0.058		
VOC	0.032	0.032	0.032		

Emissions from column A of Table 5 must be transferred to HMAP, Total Emissions, Table 11.

C. Particulate Matter Emissions from Material Handling Operations in HMAP

Rated capacity of the HMAP: _____ (a) tons per hour

Table 6: HMAP Material Handling Operations Emissions

Pollutant	Emission Factor	Emissions
	PPT of Asphalt	PPH
	b	A = a x b
PM ₁₀	0.00357	

Emissions from column A of Table 6 must be transferred to HMAP, Total Emissions, Table 11.

D. Silo Filling and Plant Load-out Emissions in HMAP

Rated capacity of the HMAP: _____ (a) tons per hour

Table 7: Emissions from Silo Filling and Plant Load Out

Pollutant	Emission Factor	Emissions
	PPT of Asphalt	PPH
	b	A = a x b
PM ₁₀	0.00111	
CO	0.00246	
VOC	0.0161	

Emissions from column A of Table 7 must be transferred to HMAP, Total Emissions, Table 11.

E. Asphalt Heater Emissions

Table 8 is provided to determine emissions from asphalt heaters. The factors are taken from AP-42.

Type of fuel used: _____

Fuel consumption in asphalt heater: _____ (a) in gallons per hour for fuel oil no. 2, diesel, & LPG; in cubic foot per hour for natural gas.

Table 8: Emissions from Asphalt Heater

Pollutant	Emission Factor			Emissions
	Diesel/Fuel Oil #2	LPG	Natural Gas	PPH
	Pounds per Gallon	Pounds per Gallon	Pounds per Cubic Foot	A = a x b
	b			
PM ₁₀	0.0033	0.0007	0.0000076	
CO	0.005	0.0075	0.0000084	
NO _x	0.024	0.013	0.0001	
SO _x	0.000213	0.001	0.0000015	
VOC	0.00056	0.0005	0.0000055	

Emissions from column A of Table 8 must be transferred to HMAP, Total Emissions, Table 11.

F. Fugitive Emissions

Total (facility wide) vehicle miles traveled on unpaved roads for each hour: _____ (a) VMT

Number of storage piles: _____ (b)

Table 9: Fugitive Emissions

Pollutant	Vehicular Traffic Emissions		Storage Piles Emissions		Total Fugitive Emissions
	Emission Factor	Emissions	Emission Factor	Emissions	
	Pounds per VMT-hr	PPH	Pounds per Pile-hr	PPH	PPH
	c	e = a x c	d	f = b x d	A = e + f
PM ₁₀	0.17		0.00005		

Emissions from Table 9 (Column A) must be transferred to HMAP, Total Emissions, Table 11.

G. Internal Combustion Engines (ICEs) associated with HMAP

Total HP of all diesel ICEs with individual HP of less than (<) 600 HP: _____ (a) HP

Total HP of all diesel ICEs with individual HP of greater than or equal to (≥) 600 HP: _____ (b) HP

Total HP of all natural gas / LPG fired ICEs: _____ (c) HP

Table 10: Emissions from ICEs associated with the HMAP

Pollutant	Emission Factor			Emissions			Total Emissions from all ICEs
	Diesel Engines (< 600 HP)	Diesel Engines (≥ 600 HP)	Natural Gas/LPG-Fired Engines	Diesel Engines (< 600 HP)	Diesel Engines (≥ 600 HP)	Natural Gas/LPG-Fired Engines	
	Pounds per hp-hr			Pounds per hour (PPH)			PPH
	d	e	f	A = a x d	B = b x e	C = c x f	E1 = A + B + C
PM ₁₀	0.0022	0.0007	0.0003381				
CO	0.00668	0.0055	0.02604				
NO _x	0.031	0.024	0.0286				
SO ₂	0.0000121	0.0000121	0.0000041				
VOCs	0.00247	0.0007050	0.00084				

Emissions from column E1 of Table 10 must be transferred to Table 11.

H. Total Emissions from Hot Mix Asphalt Plant

Table 11: HMAP Total Emissions

Pollutant	Drum Dryer	Material Handling	Silo Fill Out & Loading	Asphalt Heater	Fugitive Emissions	HMAP Generators	Total Emissions
	Tables 4 & 5	Table 6	Table 7	Table 8	Table 9	Table 10	A
	PPH						PPH
PM ₁₀							
CO							
NO _x							
SO ₂							
VOCs							

Total HMAP emissions from Column 'A' of Table 11 must be transferred to Table 17 for calculation of facility-wide emissions and synthetic minor operating hour limitations.

Concrete Batch Plant (CBP) Emissions

A. Particulate Matter Emissions from the CBP

Maximum Rated Capacity of CBP: _____ (a) Cubic Yards Per Hour

Table 12: Emissions from CBP

Pollutant	Emission Factor	Emissions
	Pounds Per Cubic Yd	PPH
	b	A = a x b
PM ₁₀	0.02290	

Emissions from column A of Table 12 must be transferred to CBP, Total Emissions, Table 15.

B. Emissions from Boilers/Heaters in CBP

Table 13 is provided to determine emissions from boiler/heater in the CBP. The factors are taken from AP-42

Fuel Used: _____

Capacity of boilers/heaters: _____ (a) MMBTU/hr

Table 13: Emissions from Boiler/Heater in CBP

Pollutant	Emission Factors			Emissions
	Fuel Oil #2/Diesel	Natural Gas	Propane	
	lb/MMBTU			lb/hr
	b			A = a x b
PM ₁₀	0.024	0.007451	0.00765	
CO	0.0365	0.08235	0.08197	
NO _x	0.146	0.09804	0.1421	
SO ₂	0.00152	0.0113	0.0137	
VOCs	0.0025	0.005392	0.005392	

Emissions from column A of Table 13 must be transferred to CBP, Total Emissions, Table 15.

C. Internal Combustion Engines (ICE) Associated with CBP

Total HP of all diesel ICEs with individual HP of less than (<) 600HP: _____ (a) HP

Total HP of all diesel ICEs with individual HP of greater than or equal to (≥) 600 HP: _____ (b) HP

Total HP of all natural gas / LPG fired ICEs: _____ (c) HP

Table 14: Emissions from ICEs associated with the CBP

Pollutant	Emission Factor			Emissions			Total Emissions from all ICEs	
	Diesel Engines (< 600 HP)	Diesel Engines (≥ 600 HP)	Natural Gas/LPG-Fired Engines	Diesel Engines (< 600 HP)	Diesel Engines (≥ 600 HP)	Natural Gas/LPG-Fired Engines		
	Pounds per hp-hr			Pounds per hour (PPH)				PPH
	d	e	f	A = a x d	B = b x e	C = c x f		E1 = A + B + C
PM ₁₀	0.0022	0.0007	0.0003381					
CO	0.00668	0.0055	0.02604					
NO _x	0.031	0.024	0.0286					
SO ₂	0.0000121	0.0000121	0.0000041					
VOCs	0.00247	0.0007050	0.00084					

Emissions from column E1 of Table 14 must be transferred to, Total Emission, Table 15.

D. Total Emissions from CBP

Table 15: CBP Total Emissions

Pollutant	CBP	Boiler/Heater	CBP Generators	Total C&S Plant Emissions
	Table 12	Table 13	Table 14	A
	PPH			PPH
PM ₁₀				
CO				
NO _x				
SO _x				
VOC				

Total CBP emissions from Column ‘A’ of Table 15 must be transferred to Table 17 for calculation of facility-wide emissions and synthetic minor operating hour limitations.

Facility Wide Emergency Generators

Emergency Internal Combustion Engines (ICE)

Total HP of all diesel ICEs with individual HP of less than (<) 600HP: _____ (a) HP

Total HP of all diesel ICEs with individual HP of greater than or equal to (≥) 600 HP: _____ (b) HP

Total HP of all natural gas/LPG fired ICEs: _____ (c) HP

Table 16: Emissions from Emergency ICEs

Pollutant	Emission Factor			Emissions			Total Emissions from all ICEs
	Diesel Engines (< 600 HP)	Diesel Engines (≥ 600 HP)	Natural Gas/LPG-Fired Engines	Diesel Engines (< 600 HP)	Diesel Engines (≥ 600 HP)	Natural Gas/LPG-Fired Engines	
	Pounds per hp-hr			TPY			
	d	e	f	A = a x d x 0.25	B = b x e x 0.25	C = c x f x 0.25	
PM ₁₀	0.0022	0.0007	0.0003381				
CO	0.00668	0.0055	0.02604				
NO _x	0.031	0.024	0.0286				
SO ₂	0.0000121	0.0000121	0.0000041				
VOCs	0.00247	0.0007050	0.00084				

Emissions from column E1 of Table 16 must be transferred to Table 17 for calculation of facility-wide emissions and synthetic minor operating hour limitations.

Synthetic Minor Calculation for Operations

Table 17 is to be used to calculate total annual emissions from Tables 3, 11, 15 and 16 and to calculate a synthetic minor limitation if applicable.

Table 17: Total Annual Emissions and Synthetic Minor Limitation

Pollutants	HMAP	C&S	CBP	Total Potential Emissions (8760 Hours)		Emissions from Table 16	Emission Limit	Hours of Operation
	Table 3	Table 11	Table 15					
	PPH			PPH	TPY	TPY	TPY	Hours
	a	b	c	d = a + b + c	e = d x 4.38	f	g = 90 - f	A = g/e x 8760
PM ₁₀								
CO								
NO _x								
SO ₂								
VOC								

If the lowest number of hours in column A is less than 8760 than the facility will be considered a synthetic minor source and will be required to limit their annual throughput to the equivalent lowest hour restriction in column A.

For Example:

If after completing Table 17 and two of the numbers in Column A, are less than 8760 than you must take the lowest, of the two numbers, and multiply that number times the maximum capacity of each plant, in tons per hour (TPH), to calculate an annual throughput limitation.

For a C&S plant, determine the highest capacity in the second column of Table 1, multiply the highest capacity listed by the lowest number of hours in column A of Table 17 to determine the throughput limitation for the C&S plant. For the HMAP and CBP take the Rated Capacity, in TPH, of the plants and multiply that capacity by the lowest number of hours in Column A, of Table 17 to determine the annual throughput limitation for those plants at the facility.

Annual Operations Throughput Limitations:

C&S Plant _____ (b) hours _____ (a) TPY

HMAP _____ (b) hours _____ (a) TPY

CBP _____ (b) hours _____ (a) Cubic Yards of Concrete per Year (CYY)

Table 18 below is to be used by the Permittee to propose combinations of material throughput limitations for each plant at the facility that would still keep the emissions below the limits in column g of Table 17 as an alternative to the facility wide hourly limitation that would apply the same hourly limitation to each plant calculated in Table 17.

Table 18: Alternative Plant Throughput Limitations

Plant	Proposed Throughput TPY	Rated Capacity TPH	Hours/year to be operated	Total Plant Emission Rates PPH (From Tables 3, 11 & 15)					Emissions TPY					
				PM ₁₀	CO	NO _x	SO ₂	VOC	PM ₁₀	CO	NO _x	SO ₂	VOC	
				a	b	c = a/b	d					(c x d)/2000		
C&S														
HMAP														
CBP														
Total Proposed Emissions (Sum of each Column)														
Emission Limits g of Table 17														

The total proposed emissions for each pollutant cannot exceed the Emission Limits for each pollutant.

Proposed Annual Throughput Limitations:

C&S Plant _____ (a) TPY

HMAP _____ (a) TPY

CBP _____ (a) TPY

Statement of Compliance with all Applicable Requirements

Permit Number (If existing source) _____

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it files a complete application, but prior to release of a proposed permit. Should there be any discrepancies between this application package and Title 17 of the Pima County Code (PCC), the PCC shall be preferred.

This statement must be signed by a Responsible Official. Applications without a signed statement will be deemed incomplete.

The responsible official is defined as a person who is in charge of principal business functions or who performs policy or decision making functions for the business. This may also include an authorized representative for such persons. For a complete definition, see Pima County Air Quality Control, Title 17, Section 17.04.340(A)(200).

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Pima County Department of Environmental Quality (PDEQ) as public record. I also attest that I am in compliance with the applicable requirements and will continue to comply with such requirements and any future requirements that become effective during the life of my permit. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the requirements of Title 17 of the Pima County Code and any permit issued thereof.

Name (Print/Type): _____ Title: _____

(Signature): _____ Date: _____

Certification of Truth, Accuracy, and Completeness

17.13.010(H) - Certification of Truth, Accuracy, and Completeness. Any application form, report, or compliance certification submitted pursuant to this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate, and complete.

By my signature I, (Name) _____, hereby certify that based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

(Signature): _____

Official Title: _____ Date: _____