MINOR FACILITY
AIR QUALITY PERMIT APPLICATION GUIDE
FORMS & INSTRUCTIONS

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
707 N. ROBINSON AVE., SUITE 4100
P. O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

INTRODUCTION

This package contains instructions and forms for making application for new, relocation, and modification of construction and operating permits for **minor and synthetic minor facilities only**. It has been developed to address a wide range of industry types and emissions units. Thus, some portions may not be applicable to your facility. This Application Guide is designed for "Individual Permit" applications, and not for "General Permit (GP)" applications. Currently, AQD has seven specific GP minor source applications available. Each GP is designed for a particular industry type and should be used whenever possible. There are also two other individual permit application packages for specific minor facilities other than this one. These packages are listed below and they are available from Air Quality Division or can be downloaded at www.deq.state.ok.us:

1. Minor Facility Individual Permit Application Forms:
   - 100-100 – Minor Source Permit Application for a Natural Gas Compressor Station
   - 100-110 – Minor Source Permit Application for a Rock Crushing Facility or a Sand and Gravel Operation

2. Minor Facility General Permit Application Forms:
   - 100-360 – Area Source NESHAP & Small NSPS Facilities General Permit Application
   - 100-340 – Hot Mix Asphalt Plants General Permit Application
   - 100-305 – Oil & Gas Facilities – Minor Source General Permit Application
   - 100-310 – Dry Cleaning Minor Facility General Permit Application
   - 100-320 – Chromium Electroplating and Anodizing Minor Facility General Permit Application
   - 100-330 – Non-Metallic Mineral Processing Minor Facility General Permit Application
   - 100-350 – Printing /Packaging General Permit Application

Information submitted using this package should be adequate to determine that a proposed source will meet applicable air quality rules and standards. Required information will vary according to the type of facility to be constructed or operated. The following specific instructions should be followed to assure that all-necessary information is provided to draft the appropriate permit:

- 100-105-A – Facility Emission Summary
- 100-105-B – Stationary IC Engines/Turbines
- 100-105-C – Dehydration and Amine Units
- 100-105-D – Storage and Loading for Organic Materials
- 100-105-E – Fuel-Burning Equipment
- 100-105-F – Nonmetallic Mineral Processing Facility
- 100-105-G – Asphalt Plant Equipment
- 100-105-H – Incineration Facility
- 100-105-I – Painting Operation Facility

Please read all directions carefully before filling out these forms. Answer all questions by checking the appropriate box or filling in a response. If an item does not apply to you, enter "N/A" (for not applicable) to show that you considered the question. An original signature from a responsible official is required on Form 100-884. Please note that delays in processing your application may occur if an incomplete application is submitted. Please choose all applicable portions for your facility. It is your responsibility to submit a complete application well in advance of anticipated commencement of construction, startup dates, or the effective date of operating permit program requirements to allow sufficient time for proper application review and permit issuance. If you need additional information on completing this Form, or would like to meet with us before submitting your application, please call the AQD office at (405) 702-4100 for assistance.

BACKGROUND

Oklahoma operates a dual permitting system under Oklahoma Administrative Code (OAC) 252:100. A *construction permit* is to be obtained prior to the commencement of construction, installation or modification of any source that will increase the amount of air contaminant emissions by more than the de minimis levels given in OAC 252:100-7-2. After construction is completed, application for an *operating permit* must be submitted within 180 days after start up. A *relocation permit* may be obtained for relocation of portable minor facilities from one site to another only in attainment areas (DEQ Form #100-886). Relocation of such a source without a permit will automatically void the operating permit or the grandfather exemptions for that source. Relocation permits are good for two years, and failure to change a source's location within two years shall

subject it to the requirement to obtain a stationary source operating permit. Applicants may request *modification* to existing permits by submission of an application to modify. Modification to a source operation shall subject the facility at which the source operation is located to issuance of an operating permit for the entire facility.

If you are uncertain whether a permit is required, a request for an applicability determination may be submitted to DEQ and a written determination will be made based on the data submitted. An applicability determination can also be performed to determine whether a facility is a major or minor source.

DEFINITIONS

Criteria Pollutant: Oxides of Nitrogen (NOx), Sulfur Dioxide (SO_2), Lead (Pb), Ozone (O_3, i.e., regulated as volatile organic hydrocarbon or VOC as a precursor to O_3), Particulate Matter less than 10 microns (PM_{10}), Particulate Matter less than 2.5 microns ($PM_{2.5}$), Carbon Monoxide (CO).

Minor Facility: A facility that has the potential to emit less than 100 tons/year of a criteria pollutant, less than 10 tons/year of any single hazardous air pollutant, and less than 25 tons/year total hazardous air pollutants in the aggregate. These facilities are classified as Tier I facilities and follow the simplest type of application process.

Synthetic Minor Facility: A facility which has the potential under maximum operating conditions to emit at the Major Source level but which has a permit that restricts actual emissions to the minor facility level. Such restrictions may include any of the following: hours of operation, emission control devices, and throughput. Applications for synthetic minor facility permits are classified as either Tier I or Tier II, depending on several factors.

Major Source: A source that has the potential to emit more than 100 tons/year for criteria pollutants, 25 tons/year of hazardous air pollutants, or 10 tons/year of any single hazardous air pollutant. These sources are complex in their potential impact and are subject to the Tier II or Tier III application process.

TIER DETERMINATION

DEQ's "Uniform Permitting" system, under OAC 252:4, categorizes applications as Tier I, II, or III, depending on their complexity and the amount of public interest. The main effect of a Tier classification is the amount of public review given the application. For Air Quality permits, Tier I basically includes minor facilities and most synthetic minor facilities. Tier II covers major sources, and Tier III covers only very large sources such as those requiring PSD review. DEQ Form # 100-815 includes an instruction sheet showing classification of air quality applications. This may be used to make a preliminary determination of the Tier classification. This determination will be verified by AQD staff before permit issuance.

PERMIT APPLICATION FEES

Applicants must attach a check or money order (no cash will be accepted) payable to the DEQ Air Quality Division. Fees are subject to change, please refer to OAC 252:100-7-3 for the latest fee schedule. Please reference the facility name (or existing permit or application number) on the check. The emissions level is based on the single criteria pollutant with the highest emissions rate. See DEQ Form #100-815 for fee details.

ANNUAL EMISSIONS INVENTORY

An annual Emissions Inventory (sometimes called a Turn Around Document) must be submitted to the Air Quality Division by April 1 of the year following issuance of your construction or operating permit, and provide emissions information for the previous year. [Note: This document should NOT be submitted with your permit application unless requested by the permit writer.] This information is used to calculate the annual operating fee. All calculations and assumptions used to estimate emissions must be verified by proper documentation. All supporting data, including actual production, throughput and measurement records along with engineering calculations and other data utilized in accordance with OAC 252:100-5-2.1(c) & (d) must be maintained at the facility and provided on request. Annual Emissions Inventory information may be found at: http://www.deq.state.ok.us/AQDnew/Emissions.

YOUR APPLICATION MUST INCLUDE:

1. DEQ Form # 100-884 (General Facility Information Form)
2. DEQ Form # 100-810 (Landowner Affidavit)
3. DEQ Form # 100-815 (Application Fee Classification)
4. DEQ Form #100-105-A (Facility Emission Summary)
5. Emissions information for each unit on site (as appropriate, Forms 100-105-B though 100-105-I)
6. Appropriate fees (Payable To DEQ Air Quality Division)
7. Facility Plot Plan & Process Flow Diagram

SUBMIT 2 COPIES OF COMPLETED APPLICATION TO:

OKLAHOMA DEPT. OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
707 N. ROBINSON AVE., SUITE 4100
P.O.BOX 1677
OKLAHOMA CITY, OK 73101-1677

ASSISTANCE AVAILABLE:

DEQ CUSTOMER ASSISTANCE: 1 - (800) 869-1400
AIR QUALITY DIVISION: (405) 702-4100
WEB PAGE ADDRESS: http://www.deq.state.ok.us

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applicants must provide notice to the landowner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:4-7-13 (b).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice. This form is not required for Applicability Determination applications.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)
	My application does not involve any land.
	My application involves only land owned by me (or applicant business).
	I have a current lease given to accomplish the permitted purpose.
	I have a current easement given to accomplish the permitted purpose.

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)		Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		

LANDOWNER AFFIDAVIT CERTIFICATION			
I, as the applicant or an authorized representative of the applicant, hereby certify that I own the real property, have a current lease or easement which is given to accomplish the permitted purpose (per Option A above), or have provided legal notice to the landowner(s) (per Option B above) about the permit application for the facility described below.			
Company Name		Facility Name	
Facility Address or Legal Description.			
Responsible Official (signature)		Date Signed	
Responsible Official (typed)		Title	

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

- -

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name) ____

(Applicant name) ______________________ has filed a permit application with the Oklahoma Department of Environmental Quality for (Facility Name) ______________________ facility.

This application involves the land owned by you located at:

Address or Legal Description: ____

____

Signed: ______________________ Date: ______________

AIR QUALITY PERMIT APPLICATION
GENERAL FACILITY INFORMATION

APPLICATION NUMBER (AQD Use Only)	

1	COMPANY INFORMATION	Name						
Mailing Address			City		State		Zip	

2	APPLICATION TYPE		Applicability Determination		Construction Permit		Operating Permit
	GP Authorization To Operate		GP Authorization To Construct		GP Name:		
	Renewal		Modification		Relocation		PBR	PBR Type:	
Permit Number(s) (If Applicable)							
Est. Date of Construction/Modification Start:		Operational Start-up:		Completion:			
Construction Permit Public Review Process:		Traditional		Enhanced			

3	IS CONFIDENTIAL INFORMATION INCLUDED?		YES		NO
By including confidential information, Applicant acknowledges that such information may be shared with the U.S. Environmental Protection Agency for purposes consistent with the Federal Clean Air Act, 42 U.S.C. §§ 4201 et. seq.					

4	TIER CLASSIFICATION		Tier I		Tier II		Tier III		N/A – AD only
FACILITY TYPE			Major		Minor		Synthetic Minor		

5	FEES SUBMITTED	$	Check #		Date	

6	TECHNICAL CONTACT	Name						
Phone		Fax		Email Address				
Company Name								
Street Address			City		State		Zip	

7	FACILITY INFORMATION	Name						
SIC Code(s)				NAICS Code(s)				
Contact Person		Title		Phone				
LEGAL DESCRIPTION	Sub Section		Section		Township		Range	
Physical Address or Driving Directions								
City or Nearest Town		Zip		County				

8	GEOGRAPHIC COORDINATES	Latitude (to 5 Decimals)		Longitude (to 5 Decimals)	
REFERENCE POINT		Facility Entrance Point or First Gate of Lease Property (preferred above all other options)			
	Center of Facility		Unknown		Other (Specify):	

9	APPLICATION CERTIFICATION	**This application, including all attachments, has been submitted as required by OAC 252:100.**			
I certify that (a) I am the Responsible Official for this company as defined in OAC 252:100-1-3; and (b) based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.					
Responsible Official (name)			Title		
Responsible Official (signature)			Date		
Phone		Fax		Email Address	
Street Address		City		State		Zip	

AIR QUALITY DIVISION **CLASSIFICATION OF AQ PERMIT APPLICATIONS** **& APPLICATION FEES**		Application Number (AQD Use Only)	

Company Name							
Facility Name							
Mailing Address		City		State		Zip	

This form is used to document both a preliminary determination of the Tier classification and any associated Application Fee.

Step 1: APPLICATION CLASSIFICATION AND TIER DETERMINATION

DEQ's "Uniform Permitting" system, under OAC 252:004, categorizes different types of applications as Tier I, II, or III, depending on their complexity and the amount of public interest. The main effect of a Tier classification is the amount of public review given the application. For Air Quality permits, Tier I basically includes minor facilities and most synthetic minor facilities. Tier II covers major sources, and Tier III covers only very large sources such as those requiring PSD review. Additional information to make a preliminary determination of the Tier classification is provided on the next page. This determination will be verified before permit issuance.

Note that all Tier II and III applications require public notice of the application in one newspaper local to the site or facility as soon after the filing date as possible. Other public participation requirements, such as notice of draft and proposed permit, and notice of public meeting may also be required. Contact our office for more information on these requirements.

TIER CLASSIFICATION		Tier I		Tier II		Tier III		N/A – AD only	
FACILITY TYPE		Major		Minor		Synthetic Minor		Confirmed/Corrected by: (AQD Use Only)	

Step 2: APPLICATION TYPE & FEE

Application fee may be determined according to the following schedule. The emissions level is based on the single criteria pollutant with the highest emissions rate. Fees are subject to change – please refer to OAC 252:100-7-3 or 252:100-8-1.7 for the latest fee schedule.

	MAJOR SOURCE	Fee		MINOR OR SYNTHETIC MINOR SOURCE	Fee
	Applicability Determination (100734)	$500		Applicability Determination (100922)	$500
	GP- Authorization to Construct (100778)	$900		PBR – Construct (100985)	$250
	GP- Authorization to Operate (100788)	$900		PBR – Operate (100989)	$100
	Part 70 Construction (100150)	$7,500		GP – Authorization to Construct (100826)	$500
	Part 70 Construction Modification (100779)	$5,000		GP – Authorization to Operate (100827)	$500
	Part 70 Operation (100733)	$7,500		Construction (100829)	$2,000
	Part 70 Minor Modification (100781)	$3,000		Permit Amendment – no emission increase (100830)	$500
	Part 70 Significant Modification (100786)	$6,000		Operating Permit (100831)	$750
	Part 70 Renewal (100787)	$7,500		Operating Permit Modification (100833)	$750
	Part 70 Relocation (100782)	$500		Relocation (100834)	$250
Application Type Confirmed – (AQD Use Only)					

GP or PBR Name (If Applicable):		Existing Permit Number (If Applicable)	

PAYMENT INFORMATION

Please choose one payment type and attach payment – payable to the Department of Environmental Quality (no cash can be accepted). Please reference the facility name (or existing permit or Authorization number) on the check or money order.

Payment Type		Check		Money order		Amount/ Receipt Confirmed by: (DEQ Use Only)	
Amount:	$	Check or Money Order Number:				Date:	

TIER DETERMINATION INFORMATION

OAC 252:004-7 categorizes different types of Air Quality applications as Tier I, II, or III, depending on their complexity and the amount of public interest under DEQ's "Uniform Permitting" system. The Tier classification affects the amount of public review given the application. Applicants may use the following as a checklist for determining Tier classification.

OAC 252:4-7-32. Air quality applications - Tier I

No Public Notice Requirement

_____ (1) Relocation permit for a minor facility.
_____ (2) Modification of an existing FESOP that is based on the operating conditions of a construction permit that was processed under Tier I and completed the web-based public notice requirement and does not differ from those construction permit conditions in any way considered significant. [FESOP Enhanced NSR]
_____ (3) Extension of expiration date of a minor facility construction permit.
_____ (4) Modification of any Part 70 source operating permit condition that is based on the operating conditions of a construction permit that was processed under Tier I (with web-based public notice), Tier II, or Tier III and OAC 252:100-8-8 and does not differ from those construction permit conditions in any way considered significant under OAC 252:100-8-7.2(b)(2). [Enhanced NSR]
_____ (5) Extension of expiration date of a Part 70 source's construction permit.
_____ (6) New, modified, and renewed individual authorizations under general permits for which a schedule of compliance is not required by OAC 252:100-8-5(e)(8)(B)(i).
_____ (7) Burn approvals.
_____ (8) Administrative amendments of all air quality permits and other authorizations.

Web-based Public Notice Requirement

_____ (1) New minor NSR construction permit for a minor facility.
_____ (2) Initial operating permit for a new minor facility.
_____ (3) Modification of a construction permit for a minor facility.
_____ (4) Modification of an existing minor operating permit that was issued prior to September 15, 2021, and that will now become a FESOP.
_____ (5) Modification of a minor operating permit that did not undergo the *FESOP Enhanced NSR Process.* [Traditional NSR]
_____ (6) Construction permit for an existing Part 70 source for any facility change considered to be a minor modification under OAC 252:100-8-7.2(b)(1).

OAC 252:4-7-33. Air quality applications - Tier II

_____ (1) A minor facility seeking a permit for a facility modification that when completed would turn it into a Part 70 source.
_____ (2) Any permit application for a Part 70 source that would result, on issuance, with the facility being covered by a FESOP (PBR, GP, or individual facility operating permit).
_____ (3) Construction permit for a new Part 70 source not classified under Tier III.
_____ (4) Construction permit for an existing Part 70 source for any facility change considered significant under OAC 252:100-8-7.2(b)(2) and which is not classified under Tier III.
_____ (5) Initial operating permit for a Part 70 source.
_____ (6) Acid rain permit that is independent of a Part 70 permit application.
_____ (7) Temporary source permit under OAC 252:100-8-6.2.
_____ (8) Significant modification, as described in OAC 252:100-8-7.2(b)(2), of a Part 70 operating permit that did not undergo the *Enhanced NSR Process.* [Traditional NSR]
_____ (9) Modification of a Part 70 operating permit when the conditions proposed for modification differ from the underlying construction permit's operating conditions in any way considered significant under OAC 252:100-8-7.2(b)(2). [Traditional NSR]
_____ (10) A Part 70 construction permit modification considered significant under OAC 252:100-8-7.2(b)(2) and which is not classified under Tier III.
_____ (11) Renewals of operating permits for Part 70 sources.
_____ (12) New, modified, and renewed general permits.
_____ (13) Individual authorizations under any general permit for which a schedule of compliance is required by OAC 252:100-8-5(e)(8)(B)(i).
_____ (14) Plant-wide emission plan approval under OAC 252:100-37-25(b) or OAC 252:100-39-46(j).

OAC 252:4-7-34. Air quality applications - Tier III

(a) A construction permit for any new major stationary source listed in this subsection requires a Tier III application. For purposes of this section, "Major stationary source" means:

_____ (1) Any of the following sources of air pollutants which emits, or has the PTE, 100 TPY or more of any pollutant subject to regulation:

_____ (A) carbon black plants (furnace process),
_____ (B) charcoal production plants,
_____ (C) chemical process plants,
_____ (D) coal cleaning plants (with thermal dryers),
_____ (E) coke oven batteries,
_____ (F) fossil-fuel boilers (or combustion thereof),totaling more than 250 million BTU per hour heat input,
_____ (G) fossil fuel-fired steam electric plants of more than 250 million BTU per hour heat input,
_____ (H) fuel conversion plants,
_____ (I) glass fiber processing plants,
_____ (J) hydrofluoric, sulfuric or nitric acid plants,
_____ (K) iron and steel mill plants,
_____ (L) kraft pulp mills,
_____ (M) lime plants,
_____ (N) incinerators, except where used exclusively as air pollution control devices,
_____ (O) petroleum refineries,
_____ (P) petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels,
_____ (Q) phosphate rock processing plant,
_____ (R) portland cement plants,
_____ (S) primary aluminum ore reduction plants,
_____ (T) primary copper smelters,
_____ (U) primary lead smelters,
_____ (V) primary zinc smelters,
_____ (W) secondary metal production plants,
_____ (X) sintering plants,
_____ (Y) sulfur recovery plants, or
_____ (Z) taconite ore processing plants, and

_____ (2) Any other source not specified in paragraph (1) of this definition which emits, or has the PTE, 250 TPY or more of any pollutant subject to regulation.

(b) Existing incinerators. An application for any change in emissions or potential to emit, or any change in any permit condition, that would have caused an incinerator to be defined as a major stationary source when originally permitted shall require a Tier III application.

AIR QUALITY DIVISION
APPLICATION FOR RELOCATION OF A PORTABLE MINOR SOURCE

Oklahoma Dept. of Environmental Quality
Air Quality Division
707 N. Robinson Ave., Suite 4100
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

This form must be completed to obtain approval to relocate a portable minor source, in accordance with Oklahoma Statutes Title 27A, Section 2-5-101, as described by OAC 252:100-7-17. Please submit a fee of $100 (check payable to DEQ Air Quality Division) for each source to be relocated, and a completed Landowners Affidavit (DEQ Form 100-810) for the new location.

Note that relocation of a portable minor source without a relocation permit voids the operating permit or grandfather exemption for that source. Relocation of portable sources is limited to minor sources within attainment regions of the state and is valid for only two years. Failure of a source to change its locale within the two year time period shall subject it to the requirement to obtain a stationary source permit.

1	COMPANY INFORMATION	Name					
Headquarters Mailing Address							
City			State		Zip		
Technical Contact	Name						
Phone		Fax		Email Address			

2	FACILITY INFORMATION	Plant #		Operating Permit No.	
Manufacturer's Make & Model					
Air Pollution Control Equipment					
Subject to NSPS (40 CFR Part. 60) Subpart?		**I**		**OOO**		None		Other:	

3	PRESENT LOCATION	Projected Shut Down Date:			
Previous Relocation Permit No.		NAICS Code		SIC Code	
Legal Description	Section		Township		Range	
Physical Address or Driving Directions					
City or Nearest Town		County		Zip	

4	NEW LOCATION				
Projected Start Up Date:		Projected Shut Down Date:			
Legal Description	Section		Township		Range	
Latitude / Longitude (to 5 decimal places)	Latitude		Longitude		
Physical Address or Driving Directions					
City or Nearest Town		County		Zip	
Describe Any Residence, Park, School, etc. within ¼ mile					

5	FEES SUBMITTED	$	Check #		Date	

6	APPLICATION CERTIFICATION						
This application has been submitted as required by OAC 252:100-7-17. I certify, based on information and belief formed after reasonable inquiry, the statements and information in this application are true, accurate, and complete, and that this source is operating in compliance with its current permit and all applicable control rules.							
Responsible Official (signature)					Date		
Responsible Official (typed)			Phone		Fax		
Responsible Official Title			Email Address				
Street Address		City		State		ZIP	

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
FACILITY SUMMARY

FACILITY-WIDE EMISSION SOURCES (UNITS) SUMMARY

Please list all emission units located at the facility in the table below. The classification of the emission sources' "category" is based on the corresponding DEQ Form Number on page #1 of this Application Guide. Please complete the "Emission Units" and "Emissions in TPY" in each applicable category before working on the two tables on this page. Please also list emission sources that are not covered by these categories, and provide a unique identifier (e.g., facility numbering system or emissions inventory ID#), an equipment description, the installation date (actual or projected), a summary of the annualized actual emissions of all regulated pollutants, and details on method, source, and calculations for emissions estimates for each unit. In addition, please indicate whether the unit is a subject of the requested permit action (Construction or Operating Permit, or Modification of an existing permit).

EMISSION SOURCES (UNITS)		
FORM #	**CATEGORY**	**TOTAL NUMBER**
100-105-B	Stationary IC Engines/Turbines	
100-105-C	Dehydration and Amine Units	
100-105-D	Storage & Loading for Organic Materials	
100-105-E	Fuel-burning Equipment	
100-105-F	Nonmetallic Mineral Processing Facility	
100-105-G	Asphalt Plant Equipment	
100-105-H	Incineration Facility	
100-105-I	Painting Operation Facility	

FACILITY-WIDE EMISSIONS SUMMARY

Please provide a summary of the annualized actual emissions of all regulated pollutants from each emission category at the facility. Data submitted for construction permits should be a best estimate. For operating permit applications, the estimated values should be corrected/updated as necessary following construction and subsequent testing. Emissions from de minimis activities may be quantified separately, or may be identified as "< 5 TPY," for each activity.

EMISSION UNITS		NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	HAPs
CATEGORY (FORM#)	DESCRIPTION	TPY	TPY	TPY	TPY	TPY	TPY	TPY
100-105-B	Stationary IC Engines/Turbines							
100-105-C	Dehydration and Amine Units							
100-105-D	Storage & Loading for Organic Materials							
100-105-E	Fuel-burning Equipment							
100-105-F	Nonmetallic Mineral Processing Facility							
100-105-G	Asphalt Plant Equipment							
100-105-H	Incineration Facility							
100-105-I	Painting Operation Facility							
Total								

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
FACILITY SUMMARY

FACILITY OPERATION DESCRIPTION

Please provide a written description of facility operations along with a process flow diagram. A conceptual block flow diagram is sufficient. Each block represents a piece of equipment, an operation, or a process that is used in the facility.

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
STATIONARY INTERNAL COMBUSTION ENGINES/TURBINES

EMISSION UNITS SUMMARY – ENGINES AND TURBINES

Please list all stationary internal combustion engines and turbines located at the facility in the table below. For each unit, give a unique identifier (e.g., facility numbering system or emissions inventory ID#), an equipment description, the installation date (actual or projected), and indicate whether the unit is a subject of the requested permit action (Construction or Operating Permit, or Modification of an existing permit.)

EMISSION UNITS		Installation Date	Unit Subject of this Permit Action?	
ID #	Description		Yes	No

EMISSIONS SUMMARY – ENGINES AND TURBINES

Please provide a summary of the annualized actual emissions of all regulated pollutants from each engine and turbine at the facility. Emissions from de minimis activities may be quantified separately, or may be identified as "< 5 TPY," for each activity.

EMISSION UNITS		NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	HAPs
ID #	Description	TPY	TPY	TPY	TPY	TPY	TPY	TPY
SUBTOTAL								

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
STATIONARY INTERNAL COMBUSTION ENGINES/TURBINES

EMISSION UNIT DETAILS – ENGINES AND TURBINES
Please complete a table for each engine and turbine at the facility.

ENGINE DETAILS		Internal Combustion				Turbine				
Engine Number		Engine Serial Number (if available)								
Engine Make		Caterpillar		Waukesha		Cooper		White/Superior		Ingersol-Rand
		Clark		Ajax		Solar		Other (Specify):		
Model										
Current Rated Horsepower			Construction Date				Manufactured Date			
Type (check all that apply)		2SLB		4SLB		4SRB		Normally Aspirated		Turbo Charged
Control Equipment		Catalytic Converter		Oxidation Catalyst		Other (Specify)				
Control Efficiency (%)										
OPERATING CONDITIONS (usually available from the manufacturer or stack tests on similar equipment)										
Annual hours of operation		Default 8760 hours (365 days at 24 hours/day)				Other (Specify):				
Fuel usage (scfh)				RPM						
Stack Diameter (ft)				Stack Height (ft)						
Stack Flow (acfm)				Stack Temperature ºF						
EMISSIONS	NOx			CO			VOC			
Uncontrolled Emissions	Annual Uncontrolled Operating Hours									
g/hp-hr										
lb/hr										
TPY										
Controlled Emissions	Annual Controlled Operating Hours									
g/hp-hr										
lb/hr										
TPY										
EMISSIONS DATA SOURCE		Manufacturer's Data				AP-42, Table No.:				
	Stack Test		Other (Specify):							

BLOWDOWN EMISSIONS – ENGINES AND TURBINES

BLOWDOWN EMISSIONS	
Maximum Anticipated Events Per Year	
Maximum Gas Volume Discharged Per Event (SCF)	
Total Annual Blowdown Volume (SCF)	
VOC Content (Mole %)	
VOC Emissions (TPY)	

FUGITIVE VOC EMISSIONS – ENGINES AND TURBINES

Oil and gas exploration and production facilities by their nature emit Volatile Organic Compounds (VOCs) due to leaking equipment. These emissions can be estimated using the factors provided in the worksheet below. These factors are based on Environmental Protection Agency (EPA)-evaluated data on equipment leak emissions from the oil and gas production industry gathered by the American Petroleum Institute (API). A gas analysis should be used to determine the VOC percentage of the stream. The fugitive VOC emissions may be considered one emission source ("unit") when listed in the summary table.

Component	Quantity	Default Emission Factors lb/hr/Component	VOC Percent	VOC Emissions	
				lb/hr	TPY
Gas/Vapor Valves		0.00092			
Gas/Vapor Flanges		0.00086			
Gas/Vapor Relief Valves		0.0194			
Others		0.0194			
Light Liquid Valves		0.0055	100%		
Light Liquid Flanges		0.0002	100%		
Light Liquid Pump Seals		0.0287	100%		
Light Liquid Relief Valves		0.0165	100%		
Heavy Liquid Valves		0.000018	100%		
Heavy Liquid Flanges		0.0000009	100%		
Heavy Liquid Pump Seals		0.000053	100%		
Total					

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
DEHYDRATION AND AMINE UNITS

EMISSION UNITS SUMMARY – DEHYDRATION AND AMINE UNITS

Please list all dehydration and amine units located at the facility in the table below. For each unit, give a unique identifier (e.g. facility numbering system or emissions inventory ID#), an equipment description, the installation date (actual or projected), and indicate whether the unit is a subject of the requested permit action (Construction or Operating Permit, or Modification of an existing permit.)

EMISSION UNITS		Installation Date	Unit Subject of this Permit Action?	
ID #	Description		Yes	No

EMISSIONS SUMMARY – DEHYDRATION AND AMINE UNITS

Please provide a summary of the annualized actual emissions of all regulated pollutants from each dehydration and amine emission unit at the facility. Emissions from de minimis activities may be quantified separately, or may be identified as "< 5 TPY," for each activity.

EMISSION UNITS		NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	HAPs
ID#	DESCRIPTION	TPY	TPY	TPY	TPY	TPY	TPY	TPY
SUBTOTAL								

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
DEHYDRATION AND AMINE UNITS

EMISSION UNIT DETAILS – DEHYDRATION UNITS

Please complete a table for each dehydration unit at the facility

DEHYDRATION UNIT DETAILS											
Unit ID#						Installation Date					
Dehydrator Type		Triethylene Glycol		Ethylene/Diethylene Glycol			Other (Specify):				
Still Vent Control? Select All Applicable Ones											
	None		Condenser		Flash Tank		Vent to Firebox		Routed to the Inlet		
	Other (Specify)						Overall Control Efficiency (%)				
OPERATING CONDITIONS											
Maximum Daily Gas Throughput (MMSCFD)											
Maximum Glycol Circulation Rate (GPM)						Is This Pump Capacity?		Yes		No	
Condenser Discharge Temperature (If Applicable) (^{o}F)											
Annual Controlled Hours of Operation						Annual Uncontrolled Hours of Operation					

EMISSIONS (Attach Gly-Calc Run Results)

Pollutants	Mole% in Inlet Gas	Controlled Emissions		Uncontrolled Emissions	
		lb/hr	TPY	lb/hr	TPY
Benzene					
Toluene					
Ethylbenzene					
Xylene					
n-Hexane					
Other VOC Components					
Total					

EMISSION UNIT DETAILS – AMINE UNITS

Please complete a table for each amine unit at the facility

AMINE UNIT DETAILS											
Unit ID#						Installation Date					
Still Vent Control?		None		Flare			Other (Specify)				
Overall Control Efficiency (%)											
OPERATING CONDITIONS											
Maximum Daily Gas Throughput (MMSCFD)											
Maximum Amine Circulation Rate (GPM)						Is This Pump Capacity?		Yes		No	
Annual Controlled Hours of Operation						Annual Uncontrolled Hours of Operation					

AIR QUALITY MINOR FACILITY PERMIT APPLICATION

STORAGE AND LOADING FOR ORGANIC MATERIALS

EMISSION UNITS AND EMISSIONS SUMMARY – ORGANIC MATERIALS STORAGE AND LOADING UNITS

Please list all organic materials storage and loading units located at the facility in the table below. For each unit, give a unique identifier (e.g., facility numbering system or emissions inventory ID#), an equipment description, the installation date (actual or projected), and indicate whether the unit is a subject of the requested permit action (Construction or Operating Permit, or Modification of an existing permit.) In addition, please provide a summary of the annualized actual emissions of all regulated pollutants from each organic materials storage and loading unit at the facility. Emissions from de minimis activities may be quantified separately, or may be identified as "< 5 TPY," for each activity.

EMISSION UNITS		Installation Date	Unit Subject of this Permit Action?		VOC	HAPs
ID #	Description		Yes	No	TPY	TPY
				SUBTOTAL		

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
STORAGE AND LOADING FOR ORGANIC MATERIALS

EMISSION UNIT DETAILS – STORAGE TANKS
Fill out a complete table for each tank with capacity of 400 gallons or more.

STORAGE TANKS													
Tank ID #		Installation Date				Manufactured Date							
Tank Height / Length (ft)				Tank Diameter (ft)				Tank Color					
Tank Capacity (gallons)				Maximum Throughput (gallons/year)									
Design Type		Fixed Cone Roof		Floating Internal Roof		Floating External Roof		Others (Specify):					
Type of Liquid Stored		Condensate*		Methanol		Crude Oils		Other (Specify):					
Vapor Pressure (psia)		Molecular Weight				Submerged Fill?		Yes		No			
Subject to NSPS 40 CFR 60?		Subpart K		Subpart Ka		Subpart Kb		None					
Description of Venting Valve System													
Description of Vapor Control System if Other Than Submerged Fill Pipe													
VOC Emissions by TANKS Program (TPY) (Attach TANKS Program Output)													
Flash Emissions (TPY) (Attach Vazquez-Beggs Calculation Sheets or Process Simulator Runs.)													
List Vazquez-Beggs Parameters and Justification Here if Defaults Were Not Used													

STORAGE TANKS													
Tank ID #		Installation Date				Manufactured Date							
Tank Height / Length (ft)				Tank Diameter (ft)									
Tank Capacity (gallons)				Tank Color									
Maximum Throughput (gallons/year)													
Design Type		Fixed Cone Roof		Floating Internal Roof		Floating External Roof		Others (Specify):					
Type of Liquid Stored		Condensate*		Methanol		Crude Oils		Other (Specify):					
Vapor Pressure (psia)		Molecular Weight				Submerged Fill?		Yes		No			
Subject to NSPS 40 CFR 60?		Subpart K		Subpart Ka		Subpart Kb		None					
Description of Venting Valve System													
Description of Vapor Control System if Other Than Submerged Fill Pipe													
VOC Emissions by TANKS Program (TPY) (Attach TANKS Program Output)													
Flash Emissions (TPY) (Attach Vazquez-Beggs Calculation Sheets or Process Simulator Runs.)													
List Vazquez-Beggs Parameters and Justification Here if Defaults Were Not Used													

*Note: "Slop Oil" tanks are assumed to be condensate

AIR QUALITY MINOR FACILITY PERMIT APPLICATION

STORAGE AND LOADING FOR ORGANIC MATERIALS

EMISSION UNIT DETAILS – ORGANIC MATERIALS LOADING FACILITY

Fill out a complete table for each organic materials loading facility.

LOADING FACILITY			
Unit ID #		Installation Date	
Type of Facilities		Sources to be Loaded from Facility	
Loading Rate (gallons/year)		Saturation Factor	
Control Type		Control Efficiency	

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
FUEL-BURNING EQUIPMENT

EMISSION UNITS SUMMARY – FUEL-BURNING EQUIPMENT

Please list all fuel-burning equipment emission units located at the facility in the table below. For each unit, give a unique identifier (e.g., facility numbering system or emissions inventory ID#), an equipment description, the installation date (actual or projected), and indicate whether the unit is a subject of the requested permit action (Construction or Operating Permit, or Modification of an existing permit.)

EMISSION UNITS		Installation Date	Unit Subject of this Permit Action?	
ID #	Description		Yes	No

EMISSIONS SUMMARY – FUEL-BURNING EQUIPMENT

Please provide a summary of the annualized actual emissions of all regulated pollutants from each fuel-burning equipment emission unit at the facility. Emissions from de minimis activities may be quantified separately, or may be identified as "< 5 TPY," for each activity.

EMISSION UNITS		NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	HAPs
ID#	DESCRIPTION	TPY	TPY	TPY	TPY	TPY	TPY	TPY
SUBTOTAL								

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
FUEL-BURNING EQUIPMENT

EMISSION UNIT DETAILS – FUEL-BURNING EQUIPMENT

Please complete this table for each small fuel-burning equipment emission unit, such as glycol reboilers, amine reboilers, fuel gas heaters, fuel oil heaters, and flares.

EQUIPMENT DETAILS							
Unit ID #		Unit Description				Serial # (If Available)	
Maximum Heat Input (MMBTUH)				Installation Date			
Fuel Type		Gas		Liquid (Attach Oil Analysis)		Solid (Ash Content_____)	
OPERATING CONDITIONS							
Annual Hours of Operation		Continuous (8760 hrs/yr)		Other (Specify):			
Type of Control (If Any)				Control Efficiency (%)			
Fuel Usage		scfh		gallon/hr		lb/hr	
Stack Diameter (ft)				Stack Height (ft)			
Stack Flow (acfm)				Stack Temperature (°F)			
EMISSIONS	**NOx**		**CO**		**VOC**		
lb/MMBTU							
lb/hr							
TPY							
EMISSION DATA SOURCE							
	Manufacturer's Data		AP-42		Stack Test (Attach Testing Report)		
Other (Specify):							

AIR QUALITY MINOR FACILITY PERMIT APPLICATION

NONMETALLIC MINERAL PROCESSING FACILITY (NMPF)

EMISSION UNITS SUMMARY – NONMETALLIC MINERAL PROCESSING FACILITIES

Please provide the following information for all nonmetallic mineral processing emission units located at the facility in the table below. For each unit, give a unique identifier (e.g., facility numbering system or emissions inventory ID#), a description (e.g., crusher, screen, etc.), number of hours per year operated, the date the equipment was manufactured or modified, the installation date (actual or projected), the type and efficiency of any control equipment, whether that equipment is subject to an NSPS or NESHAP (Enter "OOO," "IIII," "None," or specify the subpart, e.g., Kb), and indicate whether the unit is subject to the requested permit action (Check "yes" on all emission units for a permit for a new facility, or just those specific units being added, or modified, at an existing facility).

Emission Unit ID#	Description	Maximum Hours of Operation (hrs/yr)	Manufacture or Modification Date	Install Date	Control Equipment (if any)		Unit Subject to NSPS OOO or IIII ? (Specify)	Unit Subject of the Permit Action?	
					Type	Efficiency (%Wt)		Yes	No

EMISSIONS SUMMARY – NONMETALLIC MINERAL PROCESSING FACILITIES

Please provide a summary of the annualized potential emissions of all regulated pollutants from each emission source (i.e., crusher/grinder, screen, storage tank, and other equipment) at the facility.

EMISSION UNITS		NO_x	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	HAPs
ID#	DESCRIPTION	TPY	TPY	TPY	TPY	TPY	TPY	TPY
Subtotal								

AIR QUALITY MINOR FACILITY PERMIT APPLICATION

NONMETALLIC MINERAL PROCESSING FACILITY (NMPF)

EMISSION UNIT DETAILS – NONMETALLIC MINERAL PROCESSING FACILITIES

Provide the following information for each piece of equipment that is subject of the requested permit action. Indicate crusher type according to product size, as used in AP-42, (1/95), Section 11.19.2: primary (3 to 12 inches), secondary (1 to 4 inches), or tertiary ($3/16^{th}$ to 1 inch). Likewise, indicate for each screen whether it serves as a fines screen or "other." Provide the requested information for each transfer point, including truck unloading, if applicable.

EMISSION POINTS		**Process Rate**		**Emissions Factor**	**Control Equipment (if any)**		**Controlled Emissions**	
CRUSHERS/GRINDERS								
ID #	**Type**	**TPH**	**TPY**	**lb/ton**	**Type**	**Efficiency (%/100)**	**Lb/hr**	**TPY**

SCREENS		**Process Rate**		**Emissions Factor**	**Control Equipment (if any)**		**Controlled Emissions**	
ID #	**Type**	**TPH**	**TPY**	**lb/ton**	**Type**	**Efficiency (%/100)**	**Lb/hr**	**TPY**

MATERIAL TRANSFER POINTS		**Process Rate**		**Emissions Factor**	**Control Equipment (if any)**		**Controlled Emissions**	
From (ID#)	**To (ID#)**	**TPH**	**TPY**	**lb/ton**	**Type**	**Efficiency (%/100)**	**Lb/hr**	**TPY**

OTHER EQUIPMENT		**Process Rate**		**Emissions Factor**	**Control Equipment (if any)**		**Controlled Emissions**	
ID #	**Type**	**TPH**	**TPY**	**lb/ton**	**Type**	**Efficiency (%/100)**	**Lb/hr**	**TPY**

EMISSIONS DATA SOURCE	AP-42 (Revision and Table No.):	
Other (Specify):		

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
NONMETALLIC MINERAL PROCESSING FACILITY (NMPF)

FUGITIVE PM_{10} EMISSIONS – NONMETALLIC MINERAL PROCESSING FACILITIES

Fugitive PM_{10} emissions may be considered one emission source ("unit") when listed in the emissions summary table.

Information on Fugitive Emissions			
Haul Road Information			
Length of Haul Road, round trip (mile)		Particle Size Multiplier, k (lb/VMT)	Default = 2.6 (for PM_{10})
Unloaded Truck Weight (tons)		Silt Content of Road Materials, s (%)	
Loaded Truck Weight (tons)		Mean Vehicle Weight, W (tons)	
Number of Round Trips per Year		Surface Material Moisture Content, M (%)	
Hours of Operations per Year, H (hrs/yr)		Empirical Constants (for PM_{10})	a = 0.8, b = 0.4, c = 0.3
Vehicle Mile Travel (VMT) per Year, L		Emission Factor, EF (lb/VMT) $= \frac{k\,(s/12)^a\,(W/3)^b}{(M/0.2)^c}$	
Control Options: Wet Suppression/Chemical Additives		Control Efficiency Allowed (%): 25%/50%/75%	
Total Haul Road Emission, TPY = (EF)*L/2000			
Batch/Continuous Drop Operations (to Stockpiles) Information		**Storage Piles Information**	
Process Weight Rate, R (TPH)		Area of Each Storage Pile (acres) [Default = 0.35 (for PM_{10})]	
Particle Size Multiplier, k (dimensionless)		Number of Stockpiles	
Mean Wind Speed, U (miles/hr)		Total Storage Pile Area, P (acres)	
Surface Material Moisture Content, M (%)		Number of Active Days/Year, A =	
Emission Factor, EF (lb/ton) = $k\,(0.0032)\,(U/5)^{1.3}/(M/2)^{1.4}$		Number of Inactive Days/Year, I =	
Total Batch/Continuous Operations Emission (TPY) = EF*R*H/2000		**Total Stockpiles Emission (TPY) = (6.3*P*A + 1.7*P*I)/2000**	

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
ASPHALT PLANT EQUIPMENT

EMISSION UNITS SUMMARY – ASPHALT PLANT EQUIPMENT

Please list all Asphalt Plant emission units located at the facility in the table below. For each unit, give a unique identifier (e.g., facility numbering system or emissions inventory ID#), a description (e.g., crusher, screen, etc.), number of hours per year operated, the date the equipment was manufactured or modified, the installation date (actual or projected), the type and efficiency of any control equipment, whether that equipment is subject to NSPS or NESHAP (Enter "I", "Kb", "Other", or "None"), and indicate whether the unit is subject to the requested permit action (Check "yes" on all emission units for a permit for a new facility, or just those specific units being added, or modified, at an existing facility). In addition, list all de minimis activities (OAC 252:100, Appendix H).

Emission Unit ID#	Description	Maximum Hours of Operation **(hrs/yr)**	Manufacture or Modification Date MM/DD/YY	Install Date MM/DD/YY	Control Equipment (if any)		Unit Subject to NSPS I or Kb? **(Specify)**	Unit Subject of the Permit Action?	
					Type	Efficiency (%Wt)		Yes	No

EMISSIONS SUMMARY – ASPHALT PLANT EQUIPMENT

Please provide a summary of the annualized actual emissions of all regulated pollutants from each emission source (i.e., crusher/grinder, screen, storage tank, and other equipment) at the facility. Emissions from de minimis activities may be quantified separately, or may be identified as "< 5 TPY," for each activity.

EMISSION UNITS		NO_x	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	HAPs
ID#	DESCRIPTION	TPY	TPY	TPY	TPY	TPY	TPY	TPY
	Subtotal							

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
ASPHALT PLANT EQUIPMENT

EMISSION UNIT DETAILS – ASPHALT PLANT EQUIPMENT

Provide the following information for each piece of asphalt plant equipment that is subject of the requested permit action. Indicate crusher type according to product size, as used in AP-42, (1/95), Section 11.19.2: primary (3 to 12 inches), secondary (1 to 4 inches), or tertiary ($3/16^{th}$ to 1 inch). Likewise, indicate for each screen whether it serves as a fines screen or "other." Provide the requested information for each transfer point, including truck unloading, if applicable.

Information on Rotary Drum Dryer and Hot Oil Heater											
Plant Design		Drum Mix								Batch Mix	
Plant Type		Stationary								Portable	
Plant Make		CMI		Astec		Other (Specify)					
Model						Plant Manufacture Date:					
Plant Number				Plant Serial Number (if available)							
Plant Capacity:		Hourly Maximum (TPH)						Yearly Maximum (TPY)			
Control Equipment		Filter Baghouse				Wet Scrubber					
		Other (Specify:)									
OPERATING CONDITIONS (usually available from the manufacturer or stack tests on similar equipment)											
Annual hours of operation		Default 8760 hours (365 days at 24 hours/day)						Other (Specify):			
Rotary Drum Dryer				**Hot Oil Heater**							
Fuel Type				Fuel Type							
Fuel usage (scfh)				Fuel usage (scfh)							
Fuel Sulfur Content (% by weight)				Fuel Sulfur Content (% by weight)							
Burner Size (MMBtu/hr)				Burner Size (MMBtu/hr)							
Stack Diameter (ft)				Stack Diameter (ft)							
Stack Flow (acfm)				Stack Flow (acfm)							
EMISSIONS		NOx				CO				VOC	
g/hp-hr											
lb/hr											
TPY											
EMISSIONS DATA SOURCE		Manufacturer's Data				AP-42 (1/95), Table No:					
		Stack Test				Other (Specify):					

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
ASPHALT PLANT EQUIPMENT

FUGITIVE PM_{10} EMISSIONS – ASPHALT PLANT EQUIPMENT

Fugitive PM_{10} emissions may be considered one emission source ("unit") when listed in the emissions summary table.

Information on Fugitive Emissions			
Haul Road Information			
Length of Haul Road, round trip (mile)		Particle Size Multiplier, k (lb/VMT)	Default = 2.6 (for PM_{10})
Unloaded Truck Weight (tons)		Silt Content of Road Materials, s (%)	
Loaded Truck Weight (tons)		Mean Vehicle Weight, W (tons)	
Number of Round Trips per Year		Surface Material Moisture Content, M (%)	
Hours of Operations per Year, H (hrs/yr)		Empirical Constants (for PM_{10})	a = 0.8, b = 0.4, c = 0.3
Vehicle Mile Travel (VMT) per Year, L		Emission Factor, EF (lb/VMT) $= \frac{k\,(s/12)^a\,(W/3)^b}{(M/0.2)^c}$	
Control Options: Wet Suppression/Chemical Additives		Control Efficiency Allowed (%): 25%/50%/75%	
Total Haul Road Emission, TPY = (EF)*L/2000			
Batch/Continuous Drop Operations (to Stockpiles) Information		**Storage Piles Information**	
Process Weight Rate, R (TPH)			
Particle Size Multiplier, k (dimensionless)		Area of Each Storage Pile (acres)	Default = 0.35 (for PM_{10})
Mean Wind Speed, U (miles/hr)		Number of Stockpiles	
Surface Material Moisture Content, M (%)		Total Storage Pile Area, P (acres)	
Emission Factor, EF (lb/ton) = $k\,(0.0032)\,(U/5)^{1.3}/(M/2)^{1.4}$		Number of Active Days/Year, A = Number of Inactive Days/Year, I =	
Total Batch/Continuous Operations Emission (TPY) = EF*R*H/2000		**Total Stockpiles Emission (TPY) = (6.3*P*A + 1.7*P*I)/2000**	

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
INCINERATION FACILITY

EMISSION UNITS SUMMARY – INCINERATION FACILITIES

Please list all incineration facility emission units located at the facility in the table below. For each unit, give a unique identifier (e.g., facility numbering system or emissions inventory ID#), an equipment description, the installation date (actual or projected), and indicate whether the unit is a subject of the requested permit action (Construction or Operating Permit, or Modification of an existing permit.)

EMISSION UNITS		Installation Date	Unit Subject of this Permit Action?	
ID #	Description		Yes	No

EMISSIONS SUMMARY – INCINERATION FACILITIES

Please provide a summary of the annualized actual emissions of all regulated pollutants from each incineration facility emission unit at the facility. Emissions from de minimis activities may be quantified separately, or may be identified as "< 5 TPY," for each activity.

EMISSION UNITS		NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	HAPs
ID#	DESCRIPTION	TPY	TPY	TPY	TPY	TPY	TPY	TPY
SUBTOTAL								

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
INCINERATION FACILITY

EMISSION UNIT DETAILS – INCINERATION FACILITIES

Fill out a complete table for each incineration facility emission unit.

INCINERATOR EQUIPMENT DETAILS							
Unit ID #		Type of Incinerator				Make/Model	
Rated Capacity (lb/hr)				Installation Date			
Fuel Type		Fuel Usage (cfm, gal/hr, etc.)		Total Heat Release (BTU/hr/cf)			
OPERATING CONDITIONS							
Annual Hours of Operation		Continuous (8760 hrs/yr		Other (Specify):			
Type of Control (If Any)			Control Efficiency (%)				
Charging Method Description							
Waste Description (Source and Type of Waste)							
Amount of Waste per Day							
Method of Determining Waste Amount per Day							
Stack Diameter (ft)			Stack Height (ft)				
Stack Flow (acfm)			Stack Temperature (°F)				
EMISSIONS	**NOx**	**CO**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**HAPs**
lb/MMBTU							
lb/hr							
TPY							
EMISSION DATA SOURCE							
	Manufacturer's Data		AP-42		Stack Test (Attach Testing Report)		
Other (Specify):							

AIR QUALITY MINOR FACILITY PERMIT APPLICATION
PAINTING OPERATION FACILITY

Provide the following information for each paint booth or other painting operation emission unit that is subject of the requested permit action.

Paint Booth Dimensions

Paint Booth ID Number	Dimensions (Feet)			Spray Gun Type	Transfer Efficiency %	Control Efficiency %	PM Arrestor Filter Size
	Length	Width	Height				

Paint and Solvent Usage

Name of Paints and Solvents & Product Code	Usage (Gallons)		Density lb/gal	VOC content lb/gal
	Annual Usage	Emission Limit Basis		

Please provide a logical basis for the VOC and PM emission estimation. The type of the spraying gun must be determined and the paint transfer efficiency shall be provided. The emission control methods for VOC and PM and their control efficiencies shall be provided. The operation mode and operation hours for the painting booth shall also be provided. A copy of the paint manufacturers' MSDS must be provided. The HAP emission is also required to be submitted.

Total VOC & PM Emissions from Painting Operation

Name of Paints	VOC		PM	
	lb/hr	TPY	lb/hr	TPY
Total				

The hazardous air pollutants (HAP) must be identified and their emissions from the painting operation are also required to be estimated.

Emissions of HAPs from Painting Operation

Chemical Constituent	CAS #	Emissions
		TPY
Total		