

2016 Compliance Assistance Conference

How to Complete a Minor Source Air Permit Application

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Topics for today

How to complete:

- PTIO application 3150a, Sections I and II
- EAC form 3103 – coating operations
- Helpful resources
- Questions & Answers

PTI/PTIO Application Form 3150a

Section I



Ohio Environmental Protection Agency
 Lazarus Government Center
 50 West Town Street, Suite 700
 P.O. Box 1049
 Columbus, Ohio 43216-1049

Application for Permit to Install (PTI) and Permit to Install/Operate (PTIO)

For EPA Use Only

Application Number _____

Date Received _____

Facility Information

Note: Application is incomplete if all **bolded** questions throughout the application are not completed.

Legal Facility Name _____

Alternate Name (if any) _____

Facility Physical Address _____

City, ZIP code _____

County _____

Facility ID _____

Facility Description _____

NAICS Code 

Facility Latitude 

degrees

minutes

seconds

Facility Longitude

degrees

minutes

seconds

Core Place ID (if known) _____

SCSC ID (if known) _____

Portable?

Yes No

Portable Type

Asphalt Plant Concrete Plant Generator Aggregate Processing Concrete Crusher Grinder Other

Initial Location County

If "Other", describe: _____



Contact Information

No change to information on file.

1 <input type="checkbox"/> Billing <input type="checkbox"/> Owner <input type="checkbox"/> Primary <input type="checkbox"/> Operator <input type="checkbox"/> On-Site <input type="checkbox"/> Responsible Official				
First Name	Last Name	Phone	Fax	E-mail
Address 1	Address 2	City or Township	State	Zip Code

2 <input type="checkbox"/> Billing <input type="checkbox"/> Owner <input type="checkbox"/> Primary <input type="checkbox"/> Operator <input type="checkbox"/> On-Site <input type="checkbox"/> Responsible Official				
First Name	Last Name	Phone	Fax	E-mail
Address 1	Address 2	City or Township	State	Zip Code

3 <input type="checkbox"/> Billing <input type="checkbox"/> Owner <input type="checkbox"/> Primary <input type="checkbox"/> Operator <input type="checkbox"/> On-Site <input type="checkbox"/> Responsible Official				
First Name	Last Name	Phone	Fax	E-mail
Address 1	Address 2	City or Township	State	Zip Code

4 <input type="checkbox"/> Billing <input type="checkbox"/> Owner <input type="checkbox"/> Primary <input type="checkbox"/> Operator <input type="checkbox"/> On-Site <input type="checkbox"/> Responsible Official				
First Name	Last Name	Phone	Fax	E-mail
Address 1	Address 2	City or Township	State	Zip Code

5 <input type="checkbox"/> Billing <input type="checkbox"/> Owner <input type="checkbox"/> Primary <input type="checkbox"/> Operator <input type="checkbox"/> On-Site <input type="checkbox"/> Responsible Official				
First Name	Last Name	Phone	Fax	E-mail
Address 1	Address 2	City or Township	State	Zip Code

6 <input type="checkbox"/> Billing <input type="checkbox"/> Owner <input type="checkbox"/> Primary <input type="checkbox"/> Operator <input type="checkbox"/> On-Site <input type="checkbox"/> Responsible Official				
First Name	Last Name	Phone	Fax	E-mail
Address 1	Address 2	City or Township	State	Zip Code



Division of Air Pollution Control
Application for Permit-to-Install or Permit-to-Install and Operate

Section I – General Application Information

This section should be filled out for each permit to install (PTI) or Permit to Install and Operate (PTIO) application. A PTI is required for all air contaminant sources (emissions units) installed or modified after January 1, 1974 that are subject to OAC Chapter 3745-77. A PTIO is required for all air contaminant sources (emissions units) that are not subject to OAC Chapter 3745-77 (Title V). See the application instructions for additional information.

For OEPA use only:	<input type="checkbox"/> Installation	<input type="checkbox"/> Request Federally enforceable restrictions
	<input type="checkbox"/> Modification	<input type="checkbox"/> General Permit
	<input type="checkbox"/> Renewal	<input type="checkbox"/> Other

1. Is the purpose of this application to transition from OAC Chapter 3745-77 (Title V) to OAC Chapter 3745-31 (PTIO)?

yes no

2. **Establish PER Due Date** - Select an annual Permit Evaluation Report (PER) due date for this facility (does not apply to facilities subject to Title V, OAC Chapter 3745-77). If the PER has previously been established and a change is now desired, a PER Change Request form must be filed instead of selecting a date here.

Due Date:

- February 15
- May 15
- August 15
- November 15

For Time Period:

- January 1 through December 31
- April 1 through March 31
- July 1 through June 30
- October 1 through September 30

- PER not applicable (Title V) or due date already established
- PER Request Permit Change form attached



3. **Federal Rules Applicability** - Please check all of the appropriate boxes below. 

New Source Performance Standards (NSPS)

New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

- not affected
- unknown
- subject to Subpart: _____
- exempt - explain below

National Emission Standards for Hazardous Air Pollutants (NESHAP)

National Emissions Standards for Hazardous Air Pollutants are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

- not affected
- unknown
- subject to Subpart: _____
- subject, but exempt - explain below

Maximum Achievable Control Technology (MACT)

The Maximum Achievable Control Technology standards are listed under 40 CFR 63 and OAC rule 3745-31-28.

- not affected
- unknown
- subject to Subpart: _____
- subject, but exempt - explain below

Prevention of Significant Deterioration (PSD)

These rules are found under OAC rule 3745-31-10 through OAC rule 3745-31-20.

- not affected
- unknown
- subject to regulation

Non-Attainment New Source Review

These rules are found under OAC rule 3745-31-21 through OAC rule 3745-31-27.

- not affected
- unknown
- subject to regulation

112 (r) - Risk Management Plan

These rules are found under 40 CFR 68.

- not affected
- unknown
- subject to regulation

Title IV (Acid Rain Requirements)

These rules are found under 40 CFR 72 and 40 CFR 73.

- not affected
- unknown
- subject to regulation

Please explain why you checked "exempt" in this question for one or more federal rules. Identify each exemption and whether the entire facility and/or the specific air contaminant sources included in this permit application is exempted. Attach an additional page if necessary.



4. Express PTI/PTIO - Do you qualify for express PTI or PTIO processing?

yes no

If yes, are you requesting express processing per OAC rule 3745-31-05?

yes no

5. **Air Contaminant Sources in this Application** - Identify the air contaminant source(s) for which you are applying below. Attach additional pages if necessary. Section II of this application and an EAC form should be completed for each air contaminant source.

Emissions Unit ID*	Company Equipment ID (company's name for air contaminant source)	Equipment Description (List all equipment that are a part of this air contaminant source)

* This ID would have been created when a previous permit was issued. If no previous permits have been issued for this air contaminant source, leave this field blank. If this air contaminant source was previously identified in STARShip applications as a "Z" source (e.g., Z001), please provide that identification and a new ID will be assigned when the PTI/PTIO is issued.



6. Trade Secret Information - Is any information included in this application being claimed as a trade secret per Ohio Revised Code (ORC) 3704.08?

- yes (A "non-confidential" version must also be submitted in order for this application to be deemed complete.)
 no

7. Permit Application Contact - Person to contact for questions about this application:

Name Title

Address (Street, City/Township, State and Zip Code)

Phone Fax E-mail

8. **Authorized Signature** – OAC rule 3745-31-04 states that applications for permits to install or permits to install and operate shall be signed:

- (1) In the case of a corporation, by a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility.
- (2) In the case of a partnership by a general partner.
- (3) In the case of sole proprietorship, by the proprietor, and
- (4) In the case of a municipal, state, federal or other governmental facility, by the principal executive officer, the ranking elected official, or other duly authorized employee.

Under OAC rule 3745-31-04, this signature shall constitute personal affirmation that all statements or assertions of fact made in the application are true and complete, comply fully with applicable state requirements, and shall subject the signatory to liability under applicable state laws forbidding false or misleading statements.

Authorized Signature (for facility)

Date

Print Name

Title

PTI/PTIO Application Form 3150a

Section II



1. **Air Contaminant Source Installation or Modification Schedule** – Check all that apply (must be completed regardless of date of installation or modification):

- New installation..... [list construction date to begin]
- Initial application for an air contaminant source already installed or under construction [list date construction began]
- Modification to an existing air contaminant source/facility [list date modification to begin]
- Modification application for an air contaminant source which has been or is currently being modified. [list date modification began]
- Reconstruction of an existing air contaminant source/facility. Please explain: _____
- Renewal of an existing permit-to-operate (PTO) or PTIO [list date operation began]
- General Permit General Permit Category _____ General Permit Type _____
Complete, sign and attach the appropriate Qualifying Criteria Document
- Other, please explain: _____

2. **SCC Codes** - List all Source Classification Code(s) (SCC) that describe the process(es) performed by this air contaminant source (e.g., 1-02-002-04). 

3. **Emissions Information** - The following table requests information needed to determine the applicable requirements and the compliance status of this air contaminant source with those requirements. Suggestions for how to estimate emissions may be found in the instructions to the Emissions Activity Category (EAC) forms required with this application. If you need further assistance, contact your District Office/Local Air Agency representative.



- If total potential emissions of HAPs or any Toxic Air Contaminant (as identified in OAC rule 3745-114-01) are greater than 1 ton/yr, fill in the table for that (those) pollutant(s). For all other pollutants, if "Emissions before controls (max), lb/hr" multiplied by 24 hours/day is greater than 10 lbs/day, fill in the table for that pollutant.
- Actual emissions are calculated including add-on control equipment. If you have no add-on control equipment, "Emissions before controls" will be the same as "Actual emissions".
- Actual emissions and Requested Allowable should be based on operating 8760 hr/yr unless you are requesting federally enforceable operating restrictions to limit emissions. If so, calculate emissions based on requested operating restrictions and describe in your calculations.
- If you use units other than lbs/hr or ton/yr, specify the units used (e.g., gr/dscf, lb/ton charged, lb/MMBtu, tons/12-months).
- Requested Allowable (ton/yr) is often equivalent to Potential to Emit (PTE) as defined in OAC rule 3745-31-01 and OAC rule 3745-77-01.

Pollutant	Emissions before controls (max)* (lb/hr)	Actual emissions* (lb/hr)	Actual emissions* (ton/year)	Requested Allowable* (lb/hr)	Requested Allowable* (ton/year)
Particulate emissions (PE/PM) (formerly particulate matter, PM)					
PM # 10 microns in diameter (PE/PM ₁₀)					
PM # 2.5 microns in diameter (PE/PM _{2.5})					
Sulfur dioxide (SO ₂)					
Nitrogen oxides (NO _x)					
Carbon monoxide (CO)					
Organic compounds (OC)					
Volatile organic compounds (VOC)					
Lead (Pb)					
Total Hazardous Air Pollutants (HAPs)					
Highest single HAP:					
Toxic Air Contaminants (see instructions):					

* Provide your calculations as an attachment and explain how all process variables and emission factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

4. **Best Available Technology (BAT)** - For each pollutant for which the Requested Allowable in the above table exceeds 10 tons per year, BAT, as defined in OAC 3745-31-01, is required. Describe what has been selected as BAT and the basis for the selection: 
-

5. **Control Equipment** - Does this air contaminant source employ emissions control equipment?

- Yes - fill out the applicable information below.
 No - proceed to Question 6.

Select the type(s) of control equipment employed below (required data for selected control equipment in **bold**):

Pollutant abbreviations

PE/PM = Particulate emissions (formerly particulate matter)

PE/PM_{2.5} = PM # 2.5 microns in diameter

VOC = Volatile organic compounds

NO_x = Nitrogen oxides

PE/PM₁₀ = PM # 10 microns in diameter

OC = Organic compounds

SO₂ = Sulfur dioxide

CO = Carbon monoxide

Pb = Lead

- | | |
|---|---|
| <input type="checkbox"/> Adsorber | <input type="checkbox"/> Passive Filter |
| <input type="checkbox"/> Catalytic Converter | <input type="checkbox"/> Settling Chamber |
| <input type="checkbox"/> Condenser | <input type="checkbox"/> Thermal Incinerator/Thermal Oxidizer |
| <input type="checkbox"/> Cyclone/Multiclone | <input type="checkbox"/> Wet Scrubber |
| <input type="checkbox"/> Dry Scrubber | <input type="checkbox"/> Other, describe |
| <input type="checkbox"/> Electrostatic Precipitator | |
| <input type="checkbox"/> Fabric Filter/Baghouse | |
| <input type="checkbox"/> Flare | |
| <input type="checkbox"/> Fugitive Dust Suppression | |
| <input type="checkbox"/> NO _x Reduction Technology | |

Fabric Filter/Baghouse

Manufacturer: _____ Year installed: _____ Your ID for control equipment _____

Describe this control equipment: _____

Pollutant(s) controlled: PE/PM PE/PM₁₀ PE/PM_{2.5} OC VOC
 SO₂ NO_x CO Pb Other _____

Estimated capture efficiency (%): _____ Basis for efficiency: _____

Design control efficiency (%): _____ Basis for efficiency: _____

Operating control efficiency (%): _____ Basis for efficiency: _____

Operating pressure drop range (inches of water): Minimum: _____ Maximum: _____

Pressure type: Negative pressure Positive pressure

Fabric cleaning mechanism: Reverse air Pulse jet Shaker Other _____

Bag leak detection system: Yes No Type: _____

Lime injection or fabric coating agent used: Type: _____ Feed rate: _____

Inlet gas flow rate (acfm): _____ Outlet gas flow rate (acfm): _____

Inlet gas temperature (°F): _____ Outlet gas temperature (°F): _____

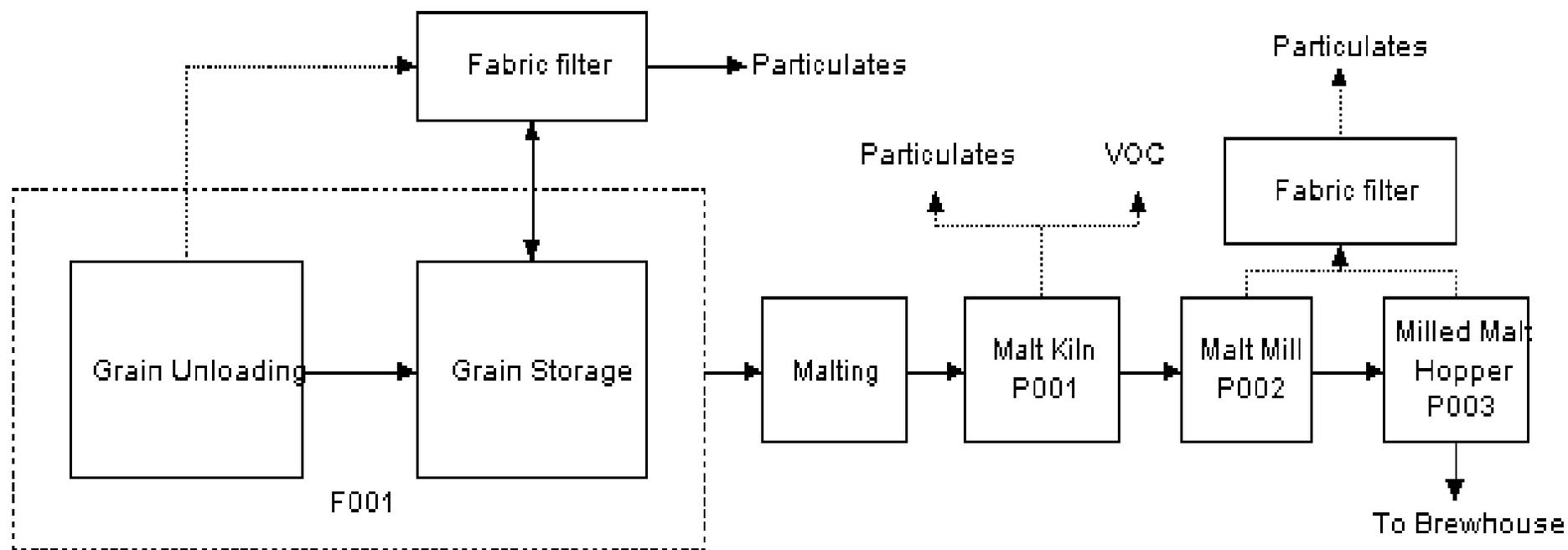
This is the only control equipment on this air contaminant source

If not, this control equipment is: Primary Secondary Parallel

List all other air contaminant sources that are also vented to this control equipment: _____

List all egress point IDs (from Table 7-A) associated with this control equipment: _____

6. **Process Flow Diagram** - Attach a Process Flow Diagram to this application for this air contaminant source. See the application instructions for additional information.



7. **Modeling information:** (Note: items in bold in Tables 7-A and/or 7-B, as applicable, are required even if the tables do not otherwise need to be completed. If applicable, all information is required.) An air quality modeling analysis is required for PTIs and PTIOs for new installations or modifications, as defined in OAC rule 3745-31-01, where either the increase of toxic air contaminants from any air contaminant source or the increase of any other pollutant for all air contaminant sources combined exceed a threshold listed below. This analysis is to assure that the impact from the requested project will not exceed Ohio's Acceptable Incremental Impacts for criteria pollutants and/or Maximum Allowable Ground Level Concentrations (MAGLC) for toxic air contaminants. (See Ohio EPA, DAPC's Engineering Guide #69 for more information.) Permit requests that would have unacceptable impacts cannot be approved as proposed. See the line-by-line PTI/PTIO instructions for additional information. 

Complete Tables 7-A and 7-C for stack emissions egress points and/or Table 7-B and 7-C for fugitive emissions egress points below if the requested allowable annual emission rate for this PTI or PTIO exceeds any of the following:

- Particulate Emissions (PE/PM₁₀): 10 tons per year
- Sulfur Dioxide (SO₂): 25 tons per year
- Nitrogen Oxides (NO_x): 25 tons per year
- Carbon Monoxide (CO): 100 tons per year
- Lead (Pb): 0.6 ton per year
- Toxic Air Contaminants: 1 ton per year. Toxic air contaminants are identified in OAC rule 3745-114-01.

Complete Table 7-A below for each stack emissions egress point. An egress point is a point at which emissions from an air contaminant source are released into the ambient (outside) air. List each individual egress point on a separate pair of lines. In each case, use the dimensions of the tallest nearby (or attached) building, building segment or structure.

Table 7-A, Stack Egress Point Information

● Company ID for the Egress Point	Type Code*	Dimensions or Diameter	Height from the Ground (ft)	Temp. at Max. Operation (F)	Flow Rate at Max. Operation (ACFM)	Minimum Distance to Fence Line (ft)
Company Description for the Egress Point	Shape: round, square, rectangular	Cross Sectional Area	Base Elevation (ft)	Building Height (ft)	Building Width (ft)	Building Length (ft)

● Company ID for the Egress Point	Type Code*	Dimensions or Diameter	Height from the Ground (ft)	Temp. at Max. Operation (F)	Flow Rate at Max. Operation (ACFM)	Minimum Distance to Fence Line (ft)
Company Description for the Egress Point	Shape: round, square, rectangular	Cross Sectional Area	Base Elevation (ft)	Building Height (ft)	Building Width (ft)	Building Length (ft)

*Type codes for stack egress points:

- A. vertical stack (unobstructed): There are no obstructions to upward flow in or on the stack such as a rain cap.
- B. vertical stack (obstructed): There are obstructions to the upward flow, such as a rain cap, which prevents or inhibits the air flow in a vertical direction.
- C. non-vertical stack: The stack directs the air flow in a direction which is not directly upward.

Complete Table 7-B below for each fugitive emissions egress point. List each individual egress point on a separate line. Refer to the description of the fugitive egress point types below the table for use in completing the type column of the table. For an air contaminant source with multiple fugitive emissions egress points, include only the primary egress points.

Table 7-B, Fugitive Egress Point Information			
1 Company ID or Name for the Egress Point	Type* (check one) <input type="checkbox"/> Area <input type="checkbox"/> Volume	Area Source Dimensions (Length x Width, in feet)	Volume Source Dimensions (Height x Width, in feet)
Company Description for the Egress Point	Release Height (ft)	Exit Gas Temp. (only if in excess of 100° F) (° F)	Minimum Distance to the Fence Line (ft)
2 Company ID or Name for the Egress Point	Type* (check one) <input type="checkbox"/> Area <input type="checkbox"/> Volume	Area Source Dimensions (Length x Width, in feet)	Volume Source Dimensions (Height x Width, in feet)
Company Description for the Egress Point	Release Height (ft)	Exit Gas Temp. (only if in excess of 100° F) (° F)	Minimum Distance to the Fence Line (ft)

*Types for fugitive egress point:

Area: an open fugitive source characterized as a horizontal area (L x W) with a release height. For irregular surfaces such as storage piles, enter dimensions of an average cross section; release height is entered as half of the maximum pile height. For process sources such as crushers, use the process opening (e.g., area of crusher hopper opening) and ignore material handling and storage emissions points.

Volume: an unpowered vertical opening, such as a window or roof monitor, characterized as a vertical area (W x H) with a release height, measured at the midpoint of the opening. Multiple openings in a building may be averaged, if necessary.

Use the same Company Name or ID for the Egress Point in Table 7-C that was used in Table 7-A or 7-B. See the line-by-line PTI/PTIO instructions for additional information. 

Table 7-C, Egress Point Location						
Company Name or ID for the Egress Point (as identified above)	Egress Point Latitude			Egress Point Longitude		
	deg	min	sec	deg	min	sec
	deg	min	sec	deg	min	sec
	deg	min	sec	deg	min	sec
	deg	min	sec	deg	min	sec
	deg	min	sec	deg	min	sec

8. Request for Enforceable Restrictions - As part of this permit application, do you wish to propose voluntary restrictions to limit emissions in order to avoid specific requirements listed below, (i.e., are you requesting state-only enforceable limits or state and federally enforceable limits to obtain synthetic minor status)? 

- yes
- no
- not sure - please contact me to discuss whether this affects the facility.

If yes, why are you requesting enforceable restrictions? Check all that apply.

- a. to avoid being a major Title V source (see OAC rule 3745-77-01 and OAC rule 3745-31)
- b. to avoid being a major MACT source (see OAC rule 3745-31-01)
- c. to avoid being a major stationary source (see OAC rule 3745-31-01)
- d. to avoid being a major modification (see OAC rule 3745-31-01)
- e. to avoid an air dispersion modeling requirement (see Engineering Guide # 69)
- f. to avoid BAT requirements (see OAC rule 3745-31-05(A)(3)(b))
- g. to avoid another requirement. Describe: _____

If you checked a., b. or c., please attach a facility-wide potential to emit (PTE) analysis (for each pollutant) and synthetic minor strategy to this application. (See application instructions for definition of PTE.) If you checked d., please attach a net emission change analysis to this application. If you checked e., f. or g., please attach a description of the restrictions proposed and how compliance with those restrictions will be verified.

9. Continuous Emissions Monitoring – Does this air contaminant source utilize any continuous emissions monitoring (CEM) equipment for indicating or demonstrating compliance? This does not include continuous parametric monitoring systems.

yes no

If yes, complete the following information.

Company Name or ID for the Egress Point _____

CEM Description _____

This CEM monitors (check all that apply):

Opacity Flow CO NO_x SO₂ THC HCl HF H₂S TRS CO₂ O₂ PM

10. **EAC Forms** - The appropriate Emissions Activity Category (EAC) form(s) must be completed and attached for each air contaminant source unless a general permit is being requested. At least one complete EAC form must be submitted for each air contaminant source for the application to be considered complete. Refer to the list attached to the application instructions. Please indicate which EAC form corresponds to this air contaminant source.



Form # Emissions Activity Category Form Description

3100	Process operations	3124	Glass manufacturing processes
3101	Fuel burning operations	3126	Secondary aluminum processing
3102	Incineration operations (except add-on emissions control devices)	3127	Fertilizer mixing/blending operations
3103	Coating operations	3128	Cement manufacturing and blending plants
3104	Storage tanks	3129	Ferroalloy production operations
3105	Gasoline, diesel and/or kerosene dispensing facility	3130	Metal salvage operations
3107	Loading rack for liquid materials	3131	Pulp and paper mills
3108	Printing operations	3132	Woodworking operations
3109	Solvent metal cleaning	3133	Aggregate processing: fugitive dust emissions
3111	Roadways and parking areas: fugitive dust emissions	3134	Coal processing plants
3112	Storage piles: fugitive dust emissions	3135	Brick and related clay product manufacturing
3113	Material handling: fugitive dust emissions	3137	Concrete batching plants
3114	Earth Moving/Mineral extraction	3138	Abrasive blasting operations
3115	Coke manufacturing	3140	Agricultural chemical mfg: fugitive dust emissions
3116	Iron production	3142	Carbon black manufacturing operations
3117	Steel manufacturing	3143	Municipal incineration operations: (fugitive dust emissions)
3118	Lime Plant: fugitive dust emissions	3144	Salt processing operations
3119	Fly/bottom ash disposal: fugitive dust emissions	3145	Galvanizing operations
3120	Grain terminals and elevators: fugitive dust emissions	3149	Landfill operations
3121	Asphalt Plants	3846	Dry cleaning facility
3123	Gray iron or steel foundries: fugitive dust emissions	3862	Internal Combustion Engines
		3863	Bakery operations

Questions?



Emission Activity Category

Form 3103

Surface Coating Operations

EMISSIONS ACTIVITY CATEGORY FORM SURFACE COATING OPERATIONS

This form is to be completed for each operation in which coatings are applied to parts, substrates, or other materials for functional, decorative, or protective purposes. State/Federal regulations which may apply to surface coating operations are listed in the instructions. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

1. Reason this form is being submitted (Check one)

New Permit Renewal or Modification of Air Permit Number(s) (e.g. K001)_____

2. Maximum Operating Schedule: _____hours per day; _____days per year

If the schedule is less than 24 hours/day or 365 days/year, what limits the schedule to less than maximum? See instructions for examples. _____

3. What type of material(s) are being coated or painted in this operation? Check all that apply.

- Metal Plastic Wood Rubber Ceramic Paper Fabric
 Other, describe _____

4. Does this operation involve coating any of the following? Check all that apply.



- | | |
|--|--|
| <input type="checkbox"/> Automobiles/trucks (at assembly plants) | <input type="checkbox"/> Metal cans |
| <input type="checkbox"/> Used automobiles (body/collision repair shops) | <input type="checkbox"/> Metal coils |
| <input type="checkbox"/> Customized motor vehicles | <input type="checkbox"/> Metal furniture |
| <input type="checkbox"/> Large appliances | <input type="checkbox"/> Marine vessels (exterior) |
| <input type="checkbox"/> Aluminum or copper wire for electromagnetic coils | <input type="checkbox"/> Airplanes (exterior) |
| <input type="checkbox"/> Paper web (roll) | <input type="checkbox"/> Vinyl |
| <input type="checkbox"/> Fabric web (roll) | <input type="checkbox"/> Miscellaneous metal parts |

5. Is any type of curing or flash-off oven associated with this coating operation?

Yes. Complete oven information below.

No, coatings are air-dried.

Oven #1: Electric Infrared (IR) Ultraviolet (UV) Gas-fired, total burner rating (BTU/hr) _____

Oven #2: Electric Infrared (IR) Ultraviolet (UV) Gas-fired, total burner rating (BTU/hr) _____

Oven #3: Electric Infrared (IR) Ultraviolet (UV) Gas-fired, total burner rating (BTU/hr) _____

For fuel fired ovens only: Do coating or solvent vapors come in direct contact with flame? Yes No

If "yes", list applicable oven numbers _____

6. How are parts cleaned prior to coating application?

Not done

Solvent bath immersion

Water-based parts washer

Solvent vapor immersion

Manual wipe with solvent

Bake oven

If a solvent is used for cleaning the parts, list the type and annual usage (in gallons) below.

Name of solvent: _____

Annual usage: _____ gallons

Solvent density : _____ lb/gal

7. Does the coating operation employ a booth or enclosure for coating application?

Yes No, explain _____

If "Yes", complete the table below: (see instructions)

Booth Manufacturer	Make or Model Number	Exhaust Equipment

8. Check the method(s) of coating application and provide the accompanying information:

Spray _____ Air gun _____ Airless _____ Electrostatic _____ High Volume Low Pressure (HVLP)
_____ Other, describe _____

Electrodeposition: Tank capacity (gallons) _____
Tank Dimensions (feet): length _____ height _____ width _____

Dip tank: Capacity (gallons) _____
Dimensions (feet): length _____ height _____ width _____

Roll coating

Brush

Powder coating

Other, describe _____

9. How are parts transferred in and out of coating operation? Manually Conveyor

10. **Coating Type and Usage Data**

Complete Table 1 on the following page identifying the types and usages of all coatings, thinners, reducers, etc. used in this coating operation. **See Instructions for completing this section.**

Table 1: Coating Type and Usage Data

Name of coating	Coating type ^a	VOC content ^b (lbs/gal)	Solids content (% by wt)	Water content (% by wt)	Is coating thinned (reduced) prior to application? (yes/no)	VOC content of thinner or reducer (lbs/gal)	Max. amount of reducer added to one gallon of coating (specify units)	Maximum coating usage rates: ^c		
								gallons/hour	gallons/day	gallons/year

Notes:

^a Examples: primer, top coat, clear coat, surfacer, varnish, catalyst, sealer, adhesive, etc.

^b VOC content minus water and exempt solvents. Consult supplier MSDS, Product Data Sheet, or Environmental Data Sheet. EPA Method 24 or formulation data should be used to determine VOC content. See Instructions.

^c Usage equals beginning inventory, minus final inventory, plus purchases, minus credits for documented disposal or returns to suppliers

11. Are any of the coatings listed in Table 1 required to be baked, heat-cured, or heat polymerized at temperatures above 250°F?

Yes No

If yes, list all coatings required to be baked, heat cured, or heat polymerized:

12. Are any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), used in this air contaminant source (including cleanup)? Yes No

13. Complete the following table for all cleanup materials and solvents used in the coating operation to clean paint guns, booth walls, etc. Do not include the amounts of solvents used for parts cleaning (question 6) or for thinning or reducing coatings (question 10, Table 1).

Name of cleanup material/solvent	Solvent density (lb/gal)	Maximum Monthly Use (gallons)	Maximum Annual Use (gallons)

14. If any used solvents from this operation are reclaimed on-site using a solvent reclaiming unit (still), provide the capacity of the still and the approximate number of gallons reclaimed annually.

Still capacity = _____ gallons Amount reclaimed = _____ gal/yr

15. If any used solvents from this operation are sent off-site for disposal, provide the following information:

Minimum amount of solvent waste disposed of throughout the year: _____ gallons

Average solvent content of solvent waste: _____ percent by volume

Questions?

