

Clinton City



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

June 27, 2013

Certified Mail

Mr. Brian Manges
Safety and Risk Management
Trupointe
215 Looney Road
Piqua, Ohio 45356

**RE: TRUPOINTE, WILMINGTON, OHIO FACILITY ID# 0514010089
NOTICE OF VIOLATION FOR FAILURE TO APPLY FOR AND OBTAIN AIR
POLLUTION PERMIT RENEWALS**

Dear Mr. Manges:

This letter serves as a Notice of Violation to you for the violation of Ohio Administrative Code (OAC) Chapter 3745-31 for the failure to submit a timely permit renewal application to install and operate air pollution emissions sources. The following is a list of expired sources of air pollution emissions at your Wilmington, Ohio facility, 0514010089, identified by the Ohio EPA Division of Air Pollution Control (DAPC).

- Gasoline and diesel loading rack, J002
- 2000 BU/hr grain dryer, F001
- 500 BU/hr grain dryer, F002
- Rail car grain shipping, F003
- Truck grain shipping, F004
- Truck grain receiving, F005

The installation and operation of any stationary air pollution source without an active air pollution permit constitutes a violation of OAC rule 3745-31-02 (A)(1)(c).

7/8

Mr. Brian Manges
Trupointe
June 17, 2013
Page 2

Please submit all necessary permit applications within **14** days of receipt of this letter. A permit-to-install and operate (PTIO) application and Emissions Activity Category (EAC) forms for each source are enclosed. The application may be submitted using the eBusiness Center: Air Services (<https://ebiz.epa.ohio.gov>). Air Services training videos are available on line at http://ohioepa.custhelp.com/app/answers/detail/a_id/1642. For assistance, you may contact Elisa Thomas at elisa.thomas@epa.ohio.gov or (614) 644-3621.

If this facility is not subject to synthetic minor requirements, a hard copy application will be accepted. Should you need any assistance in completing the enclosed paperwork, please feel free to contact Mr. James Pellegrino of the Office of Compliance Assistance and Pollution Prevention at (937) 285-6439 or me at (937) 285-6063.

Sincerely,



Craig Osborne
Environmental Specialist
OEPA DAPC, Southwest District Office

CO/tf

ec: Bruce Weinberg, DAPC
John Paulian, DAPC
Tom Schneider, DAPC/SWDO
Drew Bergman, Ohio EPA Legal Office
Brian Dickens, U.S. EPA, Region 5



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

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

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.

<u>Due Date:</u>	<u>For Time Period:</u>
<input type="checkbox"/> February 15	January 1 through December 31
<input type="checkbox"/> May 15	April 1 through March 31
<input type="checkbox"/> August 15	July 1 through June 30
<input type="checkbox"/> November 15	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 subject to Subpart: _____
 unknown 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 subject to Subpart: _____
 unknown 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 subject to Subpart: _____
 unknown subject, but exempt - explain below

Prevention of Significant Deterioration (PSD)

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

not affected subject to regulation
 unknown

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 air 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.)

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

Section II - Specific Air Contaminant Source Information

Facility ID: _____

Emissions Unit ID: _____

Company Equipment ID: _____

One copy of this section should be filled out for each air contaminant source (emissions unit) covered by this PTI/PTIO application identified in Section I, Question 5. See the application instructions for additional information.

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

New installation (for which construction has not yet begun, in accordance with OAC rule 3745-31-33). When will you begin to install the air contaminant source?
(month/year) _____ **OR** • after installation permit has been issued

Initial application for an air contaminant source already installed or under construction. Identify installation date or the date construction began (month/year) _____ and the date operation began (month/year) _____

Modification to an existing air contaminant source/facility (for which modification has not yet begun) - List previous PTI or PTIO number(s) for air contaminant sources included in this application, if applicable, and describe the requested modification (attach an additional sheet, if necessary):

When will you begin to modify the air contaminant source? (month/year) _____ **OR** • after modification permit has been issued

Modification application for an air contaminant source which has been or is currently being modified. List previous PTI or PTIO number(s) for air contaminant sources included in this application, if applicable, and describe the requested modification (attach an additional sheet, if necessary):

Identify modification date or the date modification began (month/year) _____ and the date operation began (month/year) _____

Reconstruction of an existing air contaminant source/facility. Please explain: _____

Renewal of an existing permit-to-operate (PTO) or PTIO
Identify the date operation began after installation or latest modification (month/year) _____

General Permit General Permit Category _____ General Permit Type _____
Complete, sign and attach the appropriate Qualifying Criteria Document

Other, please explain: _____

Section II - Specific Air Contaminant Source Information

Facility ID: _____

Emissions Unit ID: _____

Company Equipment ID: _____

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.

Section II - Specific Air Contaminant Source Information

Facility ID: _____

Emissions Unit ID: _____

Company Equipment ID: _____

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

Adsorber

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: _____

Type: Fluidized Bed Fixed Bed Moving Bed Disposable Concentrator Other _____

Adsorption Media: _____

For Fluidized Bed, Fixed Bed, Moving Bed and Disposable only:

Maximum design outlet organic compound concentration (ppmv): _____

Media replacement frequency or regeneration cycle time (specify units): _____

Maximum temperature of the media bed, after regeneration (including any cooling cycle): _____

For Concentrator Only:

Design regeneration cycle time (minutes): _____

Minimum desorption air stream temperature (°F): _____

Rotational rate (revolutions/hour): _____

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: _____

Catalytic Converter

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: _____

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: _____

Catalytic Incinerator

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: _____

Combustion chamber residence time (seconds): _____

Minimum temperature difference (°F) across catalyst during air contaminant source operation: _____

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

Minimum 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

Section II - Specific Air Contaminant Source Information

Facility ID: _____

Emissions Unit ID: _____

Company Equipment ID: _____

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: _____

Condenser
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: _____

Type: Indirect contact Direct contact Freeboard refrigeration device Other: _____

Maximum exhaust gas temperature (°F) during air contaminant source operation: _____

Coolant type: _____

Design coolant temperature (°F): Minimum _____ Maximum _____

Design coolant flow rate (gpm): _____

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

Inlet 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: _____

Cyclone/Multiclone
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: _____

Type: Simple Multiclone Rotoclone Other _____

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

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

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: _____

Dry Scrubber
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: _____

Reagent(s) used: Type: _____ Injection rate(s): _____

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: _____

Electrostatic Precipitator
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

Section II - Specific Air Contaminant Source Information

Facility ID: _____
Emissions Unit ID: _____

Company Equipment ID: _____

SO₂ NO_x CO Pb Other _____

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

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

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

Type: Dry Wet Other: _____

Number of operating fields: _____

Secondary voltage (V) range (minimum - maximum): _____

Secondary current (milliamperes) range (minimum - maximum): _____

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

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: _____

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: _____

Flare

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: _____

Type: Enclosed Elevated (open)

If Elevated (open): Air-assisted Steam-assisted Non-assisted

Ignition device: Electric arc Pilot flame

Flame presence sensor: Yes No

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: _____

Fugitive Dust Suppression

Suppressant Type: Water Chemical Calcium chloride Asphaltic cement Other _____

Method of application: _____

Application rate (specify units): _____

Application frequency: _____

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

Section II - Specific Air Contaminant Source Information

Facility ID: _____

Emissions Unit ID: _____

Company Equipment ID: _____

NOx Reduction Technology
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: _____

NOx Reduction Type: Selective Catalytic Non-Selective Catalytic Selective Non-Catalytic

Inlet temp.: _____ Outlet temp.: _____

Inlet gas flow rate (acfm): _____

For Selective types only:

Reagent type: _____

Reagent injection rate (specify units): _____

Reagent slip (acfm): _____

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: _____

Passive Filter
Type: Bin vent Paint booth filter Filter sock Other: _____ Your ID for filter _____

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

Change frequency: _____

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

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

Settling Chamber
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: _____

Length x Width x Height: _____

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: _____

Thermal Incinerator/Thermal Oxidizer
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: _____

Minimum operating temp. (°F) and sensor location: _____ (See application instructions)

Combustion chamber residence time (seconds): _____

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: _____

Section II - Specific Air Contaminant Source Information

Facility ID: _____
Emissions Unit ID: _____

Company Equipment ID: _____

Wet Scrubber
 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: _____
Type: Impingement Packed bed Spray chamber Venturi Other: _____
 pH range for scrubbing liquid: Minimum: _____ Maximum: _____
 Is scrubber liquid recirculated? Yes No
 Scrubber liquid flow rate (gal/min): _____
 Scrubber liquid supply pressure (psig): _____ NOTE: This item for spray chambers only.
 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: _____

Other
 Type: describe _____
 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: _____
 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.

Section II - Specific Air Contaminant Source Information

Facility ID: _____

Emissions Unit ID: _____

Company Equipment ID: _____

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						
1 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)
2 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)
3 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)
4 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)

③ 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

Section II - Specific Air Contaminant Source Information

Facility ID: _____

Emissions Unit ID: _____

Company Equipment ID: _____

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.



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Columbus, Ohio 43216-1049

INSTRUCTIONS FOR PERMIT TO INSTALL (PTI) AND PERMIT TO INSTALL/OPERATE (PTIO) APPLICATIONS

1. Facility Information

The term "facility" specifically refers to the real estate that is the site of the actual, or potential, regulated activity. A facility contains one or more related manufacturing plants, disposal sites, transfer points, clean-up sites, well fields, treatment plants, etc.

Legal Facility Name: Please state the complete official name of the facility. Do not use abbreviations. The legal names of organizations, not facilities, are on file at the Ohio Secretary of State.

Alternate Name: Please state an alternate or secondary name for the facility, if one is commonly used. This may be a "d.b.a." (doing business as) name to emphasize the ownership or location of the facility. The alternate name will be used to distinguish this facility from similar facilities and help Ohio EPA locate it. This name will be used on all correspondence and authorizing actions regarding the facility.

For example, in the case of a dry cleaning facility, the legal name could be "Rondinelli". But, the common name would be "Dutchess Dry Cleaners". Any permits and/or correspondence would be issued to either "Dutchess Dry Cleaners" or "Rondinelli d.b.a. Dutchess Dry Cleaners".

Facility Physical Address: Please state the street address of the facility including the city, county or counties, and zip code. If the facility does not have a street address, please describe the physical location of the facility, including the city or township where it is located, as precisely as possible. P.O. Boxes are not physical addresses and not acceptable.

Facility ID: Please state the 10-digit ID number that applies to the facility. If you do not know the appropriate number or the ID number has not yet been assigned, please leave blank.

Facility Description: Please briefly describe the purpose of the facility, including primary products and/or services.

Primary NAICS Code: The North American Industrial Classification System (NAICS) Code is a standard identifier used to indicate the type of activity conducted at a facility. Please state the primary code that is most appropriate to the activity being conducted, or proposed to be conducted at the facility.

Facility Latitude and Longitude: Please state the longitude and latitude of the facility or a point on the facility.

Core Place ID: The Core Place ID number is assigned by Ohio EPA and acts as the unique agency-wide identifier for each physical facility or regulated activity. Please state the facility's Core Place ID, if it is known. If not known, please leave blank.

SCSC ID: This is a U.S. EPA identifier for facilities categorized as "super facilities" and is used for National Emission Inventory (NEI) purposes only. If applicable, please state the facility's SCSC ID, if it is known. If not known, please leave blank.

Portable: According to OAC rule 3745-31-01, a portable source means an air contaminant source that, in the Director's judgment, is specifically designed to be transferred to a new site as needs warrant. Please indicate whether or not the air contaminant source is designed to be moved from one location to another. If so, please select the type(s) of portable operation(s) and the county in which it will be first located.

2. Contact Information

This section identifies the persons responsible for the various roles at this facility. Please identify a person for each listed role. If a person fills more than one role, multiple check boxes may be marked and the contact information entered just once. If you have previously completed this table for another application (hard copy or online after July 1, 2008) and there have been no changes since that time, please check the box at the top of the table indicating that no changes are needed.

Billing: Please state the name of the organization or individual responsible for general billing activities at the facility. All invoices and other financial documents associated with the permitting of the facility will be sent to this contact.

Owner: Please state the name of the organization or individual that owns the regulated activity at or associated with the facility. The owner of a facility is any person or organization who completely or partially owns a facility. You may enter more than one owner, if appropriate.

Primary: Please state the name of the individual who should be the primary contact for air pollution control related activities at the facility. All correspondence and authorizing actions regarding the facility will be sent to this person.

Operator: Please state the name of the organization or individual that is operating or will be operating the facility. The operator of a facility is any person or organization who is

charged with the operation of a facility. You may enter more than one operator, if appropriate.

On-Site: Please state the name of the individual located at the facility physical address that will be available for contact by Ohio EPA.

Responsible Official: Please provide the name of the individual who meets the requirements for a responsible official, as defined in OAC rule 3745-77-01, for a facility subject to OAC Chapter 3745-77, OR, the individual who meets the signatory requirements, as identified in OAC rule 3745-31-04, for a facility not subject to OAC Chapter 3745-77. For example, in the case of a corporation, the official should be at least the level of vice president. In the case of a partnership, the official should be a general partner. In case of a sole proprietorship, the official should be a proprietor. (Refer to above rules for the complete list and for requirements for delegating responsibility if you are a corporation.)

General Instructions

This application form is needed to obtain a permit-to-install (PTI) or a permit-to-install and operate (PTIO) for an air contaminant source (emissions unit). A PTI is required for all air contaminant sources (emissions units) installed or modified after January 1, 1974 that are subject to Ohio Administrative Code (OAC) Chapter 3745-77. A subsequent Title V operating permit per OAC Chapter 3745-77 will be needed for these types of facilities. Title V facilities are not eligible for PTIO. A PTIO is required for all air contaminant sources (emissions units) that are not subject to OAC Chapter 3745-77. A PTIO is the only air pollution control permit needed for these facilities.

Please note that submittal of an incomplete application will result in a delay in processing of the application and/or could result in return of the application as incomplete. At a minimum, all bolded items in this application must be completed, except when applying for a general permit (general PTI (GPTI) or general PTIO (GPTIO)). If you are applying for a general permit, follow the specific general permit application instructions available separate from this document for each general permit type. General permit information and application instructions can be obtained by visiting the Ohio EPA Division of Air Pollution Control's (DAPC) general permit website at <http://www.epa.state.oh.us/dapc/genpermit/genpermits.html>.

"Air contaminant source" means each separate operation, or activity that results or may result in the emission of (1) an air contaminant or precursor of an air contaminant for which a national ambient air quality standard has been adopted under the Clean Air Act; (2) an air contaminant for which the source is regulated under the Clean Air Act; or (3) a toxic air contaminant as listed in OAC rule 3745-114-01. This definition applies to operations or activities that emit air contaminants, whether they are regulated NSR pollutants or regulated under Ohio law ("regulated NSR pollutant" is defined in OAC rule 3745-31-01). An "Emissions unit", per OAC rule 3745-31-01, means any part of a stationary source that emits or would have the potential to emit any regulated NSR pollutant and includes an electric steam generating unit. This term regulated NSR pollutant does not include air contaminant sources that emit a pollutant regulated under State law.

This application should be used for the following reasons:

- New installation of an air contaminant source (for which construction has not yet begun)
- Initial application for an air contaminant source already installed or under construction
- Modification to an existing air contaminant source/facility
- Reconstruction of an existing air contaminant source/facility
- Renewal of an existing permit-to-operate (PTO) or PTIO
- Startup of an air contaminant source/facility that has been shutdown
- Transition from OAC Chapter 3745-77 (Title V) to OAC Chapter 3745-31 (State PTIO)

The information requested in this form is needed for the purpose of supplying the permit application reviewer with adequate data to write the PTI/PTIO for the facility's air contaminant source(s). If you are unable to provide any requested information, please note the reason (e.g., not applicable). It is acceptable to substitute similar relevant information, such as entering "NA" for the pH range for a wet scrubber but providing a range of conductivity because that is the controlling operating parameter. When in doubt, feel free to contact your District Office or Local Air Agency (DO/LAA) representative.

Where to Get Help

There are several options to obtain assistance for either filling out these forms or for general Ohio EPA related matters.

District Office/Local Air Agency (DO/LAA)- The first of these is to simply contact your DO/LAA to ask questions. It is highly recommended that you discuss your plans with the appropriate DO/LAA representative very early in the process. They will be glad to help direct you to make sure the permitting proceeds as smoothly as possible. Remember that you may have several people to contact within Ohio EPA. For example, if your project involves air contaminant sources and wastewater discharges, then you will need to contact the air and wastewater sections in the appropriate local office (see the table at the end of these instructions).

Office of Compliance Assistance and Pollution Prevention (OCAPP) – This non-regulatory office of Ohio EPA provides answers and information about environmental regulations, compliance concerns, and pollution prevention. Offered services include: toll-free hotline, on-site compliance and pollution prevention assessments, assistance with permit application forms, quarterly newsletter, and compliance assistance publications. All services are free. Contact OCAPP at 1-800-329-7518 or (614) 644-3469. Also see Web site information below.

Assistance on the Web

Ohio EPA: <http://www.epa.state.oh.us/>

Division of Air Pollution Control (DAPC): <http://www.epa.state.oh.us/dapc/>

Contents: DAPC program guidance documents; forms; modeling information, links to regulations (OAC), and other information.

Office of Compliance Assistance and Pollution Prevention (OCAPP): <http://www.epa.state.oh.us/ocapp/ocapp.html>

Contents: Compliance publications, guidance documents, pollution prevention studies, information on alternative materials and processes and more.

Code of Federal Regulations (CFR): <http://www.gpoaccess.gov/cfr/>

U.S. EPA Factor Information REtrieval (FIRE): <http://www.epa.gov/ttn/chief/software/fire/index.html>

Contents: The Factor Information REtrieval (FIRE) Data System is a database containing EPA's emission estimation factors for criteria and hazardous air pollutants in an easy to use Windows program. Users can browse through records in the database or select specific emission factors by source category, source classification code (SCC), pollutant name, CAS number, or control device.

Consultants - You can also contract with consultants for assistance. These are typically listed in the yellow pages under Consultants: Environmental. The Ohio EPA cannot recommend any one consultant. It is highly recommended that you get references prior to hiring a consultant. Consultants have a wide range of experience and expertise so it is important for you to find out if the consultant you plan to hire will be capable of doing the job you need done correctly.

Section I – General Application Information

The questions presented in the application are in bold and the question's specific instructions are given below or next to it.

1. Purpose of Application - Transition from OAC Chapter 3745-77 (Title V) to OAC Chapter 3745-31 (PTIO)

Checking "Yes" indicates that the facility is currently subject to the Title V permitting program but will not be in the future and will be transitioning from the Title V permitting program to the PTIO permitting program based on this application and issuance of a final PTIO.

2. Establish PER Due Date

If a PTIO is issued as a result of this application, an annual Permit Evaluation Report (PER) will be due after the final permit is issued for the air contaminant source(s) regulated in the PTIO. Only one PER due date will be established for the entire facility. This date may be selected by the applicant only in the first application that results in the issuance of a PTIO. The PER will be due on the due date selected and will evaluate the permit requirements for the prior twelve calendar months as indicated under the "For Time Period" heading. If the facility is subject to Title V or a PER due date was previously

established for this facility, the "PER not applicable" box should be selected. An established PER due date may be changed by submitting a PER Request Permit Change form.

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

One box must be selected for each of the federal rules identified in the application. The descriptions for the selections are given below:

- **not affected** – the given regulation does not apply
- **subject to Subpart** – the given regulation does apply. Refer to the regulations referenced in the application, which may be found in the Code of Federal Regulations (CFR) Part 40 (Protection of the Environment), and identify which specific subpart the air contaminant source(s) are subject to. For example, a miscellaneous metal parts coating operation, may be subject to 40 CFR Part 63, Subpart M. In the space provided, simply list "M".
- **unknown** – it is unknown if the given regulation applies. Checking "unknown" is acceptable but does not relieve you of the responsibility of complying with any applicable requirements.
- **subject, but exempt** – the air contaminant source(s) you are applying for are subject to the regulation but are exempted from the emission limitations and/or control requirements specified in the regulation. Explain your rationale in the space provided at the end of this question or attach the rationale separately.

4. Express PTI/PTIO

Express status provides that:

Within sixty days of the receipt of a complete request, the director shall notify the applicant whether the air contaminant source will be accepted for express permit status. Installation or construction of the air contaminant source may commence upon the issuance of the express permit, or after sixty days if the applicant has not been notified or the express permit issued at an earlier date. The issuance of an express permit does not relieve the applicant from compliance with any applicable air pollution control requirement and is at the discretion of the director.

This status may be of benefit to your facility if you meet **all** of the requirements listed below.

In order to be considered for express PTI/PTIO status per OAC rule 3745-31-05, the air contaminant source owner or operator must:

- submit a complete permit application;
- demonstrate compliance with all applicable law;
- have "maximum uncontrolled emissions," as defined in OAC rule 3745-31-01, of less than five tons per pollutant per each year for particulate matter, sulfur dioxide, nitrogen oxides, and organic compounds;
- not be subject to the U.S. EPA new source performance standards; and
- not be subject to the national emission standards for hazardous air pollutants or a U.S. EPA promulgated standard for hazardous air pollutants.

If you are unsure of your eligibility, contact your DO/LAA representative or just check "No".

5. Air Contaminant Sources in this Application

Emissions Unit ID - This ID would have been created by the DO/LAA when a previous air 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 indicate that identification and a new ID will be assigned when the PTI/PTIO is issued.

Company Equipment ID - Provide your identification for each air contaminant source for which the application is submitted. We want to know what you call the air contaminant source at your facility (examples: spray booth #1, widget line #2, welding operation, sand handling system A).

Equipment Description - Identify the process equipment associated with the air contaminant source (examples: for a chemical reactor system- 2 weigh tanks, reactor vessel and product drop tank; for roadways and parking areas - 2 miles of unpaved roadways and 10,000 square feet of unpaved parking areas).

6. Trade Secret Information

If you indicate "yes" claiming trade secret applicability, attach a separate piece of paper to this form and include the following information to justify the claim:

- Identification of the specific information (item # and description) submitted within this application that is being claimed as a trade secret;

- An explanation of why the information specified is indeed a trade secret under Ohio law;
- Confirmation the alleged trade secret is not revealed by inspection or analysis of any marketed product (example: "reverse chemistry"); and,
- Identification of security measures that have been adopted to ensure secrecy and that reasonable or enforceable agreements or other confidential relationships prohibiting use or disclosure of the secret existed with those to whom the secret was revealed (examples: employee secrecy agreements and/or contractor agreements).

Finally, if a confidentiality claim is being submitted, two copies of the application must be submitted, one completed version with all the information requested and one "non-confidential" version containing all information requested except that information upon which a trade secret claim is being made. Note: A "non-confidential" version of this application must be submitted in order for this application to be deemed complete.

7. Permit Application Contact

The person designated as a contact should be someone knowledgeable about this permit application. This person may be a responsible official for the facility or may be a consultant or contractor.

8. Authorized Signature

No further instruction needed.

Section II - Specific Air contaminant source Information

1. Air Contaminant Source Installation or Modification Schedule

At least one box must be selected. The descriptions for the selections are given below:

- **New installation:** Identify the month and year that construction is scheduled to begin or check the box if you plan to begin construction as soon as the permit is issued. If construction of the air contaminant source already began prior to this application, do not select this box (you will select the next box).
- **Initial application for an air contaminant source already installed or under construction:** Identify the month and year that construction began. If operating, also identify the month and year that operation began.
- **Modification to an existing air contaminant source/facility:** Identify the number(s) of all previous permit(s) for the air contaminant source being modified. Identify the month and year that modification is scheduled to begin or check the box if you plan to begin modification as soon as the permit is issued. If modification of the air contaminant source already began prior to this application, do not select this box (you will select the next box).
See OAC rule 3745-31-01 for the complete definition of a "modification". The following are examples of descriptions of modifications:
 - A facility identifies a way to increase the production rate of an air contaminant source with a corresponding increase in the allowable emissions.
 - A facility identifies a way to increase process efficiency at an air contaminant source to decrease process cycle time by 20%. This will result in the exceedance of existing hourly emission limitation.
- **Modification application for an air contaminant source which has been or is currently being modified:** Identify the number(s) of all previous permit(s) for the air contaminant source being modified. Identify the month and year that construction began. If operating, also identify the month and year that operation began.
- **Reconstruction of an existing air contaminant source/facility:** Reconstruction is a modification of an existing air contaminant source as defined in 40 CFR 60.15.
- **Renewal of an existing permit-to-operate (PTO) or PTIO:** Identify the month and year that operation began after installation of the air contaminant source or after the latest modification (as defined in OAC rule 3745-31-01), whichever is later.
- **General Permit:** If you are requesting a general permit, check this box in addition to whichever other box is also appropriate. Identify the category and type of general permit you are applying for. Be sure to include the unique general permit identification number included in the full title of the type of general permit. Attach the appropriate completed and signed Qualifying Criteria Document. Be sure to follow the specific general permit application instructions available separate from this document for each general permit type. Further instructions, forms and other information are available at <http://www.epa.state.oh.us/dapc/genpermit/genpermits.html> or by contacting your DO/LAA representative.
- **Other:** If there is a special situation not covered above, check this box and explain.

2. SCC Codes

Source Classification Codes (SCC) classify the processes performed by an air contaminant source. For example, if you have a boiler that burns both coal and natural gas for electric generation, you would list two SCC's: (1) 1-01-002-04 for coal burning and; (2) 1-01-006-02 for natural gas burning. If you are not certain what SCC would best represent the operations of this air contaminant source, you can use U.S. EPA's FIRE database, available from the link in the "Where to Get Help" section above.

3. Emissions Information

The emissions information requested in this table must be determined before this application can be processed. Suggestions for how to estimate emissions may be found in the instructions to the Emissions Activity Category (EAC) form required with this application. If you need further assistance, contact your DO/LAA Representative to discuss your specific air contaminant source.

Please show all calculations used in determining the information in this table. Describe how emission rates were estimated and what worst case conditions were assumed for potential to emit calculations (see question #8 instructions for definition). Calculations provide us with a more complete understanding of your air contaminant source and also allow us to deal with special situations such as batch processes where emission rates are not uniform, or complex air contaminant sources such as production lines containing several emission points.

For emission rates expressed in units other than those specified, identify units used and be sure to relate those units to time

and/or production. Examples:

- A mass balance for a batch process determines lbs. emissions/batch. We may need to know batch length, batch cycle time, potential number of batches/yr, etc. in order to set short-term and annual emission limits.
- Baghouse outlet loadings are typically expressed in gr/dscf. Flow rate should be used to relate gr/dscf to lb/hr and ton/yr.

Pollutant: If you are unable to distinguish PM_{2.5} and PM₁₀, report it all as PE/PM. If data is available for PE/PM₁₀ or PE/PM_{2.5}, please provide that information.

OC and VOC are defined in OAC rule 3745-21-01. Normally, OC emission rates are needed since the definition of VOC exempts certain compounds and only applies to specific types of air contaminant sources.

"Hazardous air pollutant" (HAP) means any air pollutant listed in or pursuant to section 112(b) of the Clean Air Act. The list is available from USEPA at <http://www.epa.gov/ttn/atw/orig189.html> For Title V applicability, we need to know the total of all HAP emissions (**Total HAPs**) as well as the highest emission rate for any individual HAP (**Highest single HAP**), which should be identified in the table.

Toxic Air Contaminants are any air pollutant listed in OAC rule 3745-114-01. Emissions of toxic air contaminants are evaluated in accordance with ORC 3704.03(F) and the Ohio EPA document entitled "Option A – Review of New Sources of Air Toxic Emissions" (issued May 1986). Any allowable emissions that include a toxic air contaminant at a rate greater than 1 ton/yr are modeled to determine the potential impact on adjacent property. If more than one toxic air contaminant is emitted at a rate greater than 1 ton/yr, only the one with the greatest potential impact is needed, i.e. the highest emission rate and lowest TLV combination, and should be identified in the table. Several toxics may need to be modeled in order to determine this. Any allowable emissions that include an air toxic at a rate greater than 1 ton/yr are modeled to determine the potential impact on adjacent property. Modeling may be performed by either you or the DO/LAA, at their discretion.

Emissions before controls: For the listed pollutant(s), enter the worst case emissions (usually at maximum operation) or potential to emit for this air contaminant source prior to any add-on control equipment.

Actual emissions: For the listed pollutant(s), enter the actual worst case emissions or potential to emit for this air contaminant source, as determined in the previous column, taking into account any add-on control equipment.

Requested Allowable: For the listed pollutant(s), enter the allowable emission limit that you are requesting to be listed in your permit for this air contaminant source. This could be the same as the actual emissions, as determined in the previous column (using the worst case uncontrolled emission rate and the lowest expected control efficiency), or could be determined by your potential to emit (see question #8 instructions for definition). The allowable emission rate you request should not be greater than any applicable emission limit from state or federal rules. Remember that you must be able to comply with this limit under all production levels and process conditions.

4. Best Available Technology (BAT)

Air contaminant sources installed or modified prior to August 3, 2006 or which emit greater than 10 tons per year of any pollutant are required to employ BAT. This applies to each pollutant with a potential to emit (PTE) of 10 tons per year or more, unless permit restrictions are accepted (see question #8f) to ensure actual emissions remain below this level. If applicable, identify each subject pollutant and describe the strategy for minimizing emissions of that pollutant.

5. Control Equipment

For each emissions control device to be used on the air contaminant source, if any, check the appropriate box and enter the information requested for that specific type of control device.

- If multiple pollutants are controlled, specify control efficiencies for each (e.g., OC: 99%, CO: 95%) and the basis for each efficiency (e.g., stack test, design, engineering estimate).
- For Thermal Incinerator/Thermal Oxidizer, Minimum operating temperature (°F): Some rules specify a location where temperature must be determined. If your air contaminant source is subject to one of these rules, then the temperature must be determined at the location specified by the rule.

6. Process Flow Diagram

A process flow diagram is needed so that we can understand the air contaminant source's operation and emissions. The

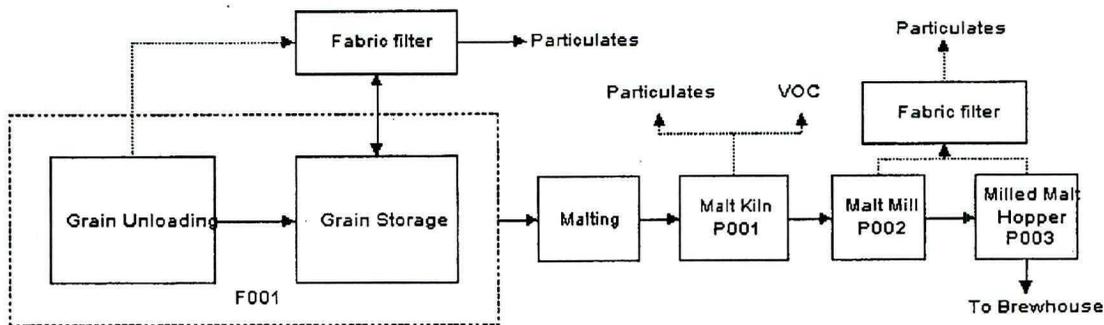
diagram should include the following:

- The emissions unit ID (if known) and company identification for the air contaminant source, see Section I (e.g., Emissions Unit ID = P004, Company ID = Line #4);
- The entry and exit points of process inputs and outputs;
- Labeling of all materials (product, waste and airborne pollutants); and
- Labeling of all process equipment, control equipment, and egress points (stack and fugitive).

If there is more than one piece of control equipment (parallel configuration), please show the following:

- Flow rate to each (percent or cfm); and
- Emissions vented to and controlled by each (percent or mass rate).

EXAMPLE PROCESS FLOW DIAGRAM:



7. Modeling Information - (see Engineering Guide #69)

An egress point is a point at which emissions from an air contaminant source are released into the ambient (outside) air. There are two main classifications of egress points: stack or fugitive. A stack is any chimney, flue, conduit or duct arranged to conduct emissions to the ambient air. Stack emissions are emissions that are released into the ambient air through a stack. Fugitive emissions are emissions that are released into the ambient air by means other than a stack. Fugitive emissions include emissions from air contaminant sources like roadways and storage piles (no stack involved, emissions are emitted directly into the ambient air) and emissions from air contaminant sources that are inside a building and the emissions escape into the ambient air through doors and windows (not a chimney, flue, conduit or duct arranged to conduct emissions to the ambient air) in the building. Many air contaminant sources have multiple egress points and some air contaminant sources have both stack and fugitive egress points.

Table 7-A: Air quality models incorporate the downwash effect that buildings and structures can have on the dispersion of the plume from a Stack Egress Point. Therefore, information on the largest nearby building or structure is necessary to fully estimate the ambient impact of emissions from a Stack Egress Point.

A building or structure may not be a simple cube. For example, a building could be mostly one story but have a segment that is five stories. Such a building would be viewed as two buildings. One would be a one-story structure that extends over the entire footprint of the building and the second would be a five-story building that only extends over that part of the footprint that is five stories. Non-square buildings (e.g., those with "L" or "U" shaped footprints) should be given a length and width that would contain the entire footprint. The height of a building with a pitched roof should be given a height equal to the height of the midpoint of the pitched roof. If you have a complex building shape with varying roof heights and you need assistance, contact your DO/LAA representative.

A building is "nearby" to a Stack Egress Point if the stack is within five times the Building Height. For example, if a Stack Egress Point is 200 feet from a building segment that is 20' high, that building or structure would not be a nearby structure. That building segment is too far away from the Stack Egress Point to cause building downwash.

Table 7-B: There are two types of fugitive releases which can be modeled. Area sources are unenclosed and can generally be understood as horizontal and 2-dimensional. Examples are roadways and parking areas, landfills, and open crushing and screening operations. Volume sources are often enclosed, 3-dimensional sources. Although they may have well-defined points where emissions are released, those egress points are not primarily designed to vent emissions and are not powered. Examples are buildings containing sources which emit dust inside the building; the dust escapes through

doors, windows and/or natural draft roof vents.

Table 7-C: Enter the latitude and longitude for each egress point previously identified in Tables 7-A and 7-B. These would be the location of the particular egress point or the center point for a fugitive source.

8. Request for Enforceable Restrictions

It may be to your advantage to obtain additional restrictions, whether state and federally enforceable or state-only enforceable, on your operations in order to avoid the applicability of some rules. For instance, you may want to avoid the applicability of Title V permitting or the requirement to obtain a Major New Source Review permit. Please be informed that additional operational and/or production restrictions, record keeping and reporting requirements may be included in your permit. If you think this might apply to you, you should discuss this issue with your DO/LAA Representative. If you decide to restrict your potential to emit (defined below), attach a separate piece of paper providing the following information:

- Identification of the proposed operational/production limitation(s) for the air contaminant source(s), (e.g., hours/12-month period, days/year, gallons/12-month period, tons of production/12-month period, etc.);
- Proposed method(s), that will be utilized to demonstrate compliance with the state and/or federally enforceable limits, (e.g., reference test methods, record keeping, continuous emissions monitoring (CEM), etc.);
- For avoidance of Title V, MACT, or NSR major source designation, a summary of the total facility potential to emit (tons/year) for each pollutant (PE/PM, PE/PM₁₀, PE/PM_{2.5}, NO_x, SO₂, CO, VOC, Lead, HAPs) before and after implementation of the proposed federally enforceable limits (include supporting calculations); and
- For NSR major modification, documentation of 1) the average actual operating rate of the air contaminant source, with associated emission, 2) the proposed allowable (federally enforceable) emission rate, and 3) the net emissions increase.

OAC rule 3745-31-01 states that "Potential to emit" means the maximum capacity of an air contaminant source or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the air contaminant source or stationary source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable or legally and practicably enforceable by the state. Secondary emissions do not count in determining the potential to emit of a stationary source.

9. Continuous Emissions Monitoring

This applies only to those devices that actually measure emissions from a stack. This is defined by USEPA as, "A continuous emission monitoring system (CEMS) is the total equipment necessary for the determination of a gas or particulate matter concentration or emission rate using pollutant analyzer measurements and a conversion equation, graph, or computer program to produce results in units of the applicable emission limitation or standard." Continuous parametric monitoring systems (e.g., a temperature monitor) should not be included in this table. Parametric monitoring systems are described in Engineering Guide #66 whereas criteria for requiring the use of CEMs are described in Engineering Guide #52, available from Ohio EPA at: <http://www.epa.state.oh.us/dapc/engineer/equides.html>.

10. EAC Forms

An EAC form is required for each air contaminant source included in this permit application. A list of available EAC forms is on the following page.

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

Ohio EPA District & Local Air Pollution Agencies

<u>AGENCY NUMBER</u>	<u>AGENCY</u>
01.	Ohio EPA, CDO Air Pollution Group 122 S. Front St. PO Box 1049 Columbus, Ohio 43216-1049 (614) 728-3778
02.	Ohio EPA, NEDO Air Pollution Group 2110 East Aurora Road Twinsburg, Ohio 44087 (330) 963-1200
03.	Ohio EPA, NWDO Air Pollution Group 347 North Dunbridge Road PO Box 466 Bowling Green, Ohio 43402 (419) 352-8461
04.	Toledo Environmental Services 348 S. Erie Street Toledo, Ohio 43602 (419) 936-3015
05.	Ohio EPA, SWDO Air Pollution Group 401 East Fifth Street Dayton, Ohio 45402-2911 (937) 285-6357
06.	Ohio EPA, SEDO Air Pollution Group 2195 Front Street Logan, Ohio 43138 (740) 385-8501

<u>AGENCY NUMBER</u>	<u>AGENCY</u>
07.	Air Pollution Group Portsmouth City Health Dept. 740 Second Street Portsmouth, Ohio 45662 (740) 353-5156
08.	RAPCA 117 South Main Street Dayton, Ohio 45422-1280 (937) 225-4435
13.	Div. of Environment Bureau of Air Pollution Control 1925 St. Clair Cleveland, Ohio 44114 (216) 664-2324
14.	Hamilton County Dept. of Environmental Services 250 William Howard Taft Road Cincinnati, Ohio 45219 (513) 946-7777
15.	Div. of Air Pollution Control Canton City Health Dept. 420 Market Avenue, N. Canton, Ohio 44702-1544 (330) 489-3385 or 489-3231
16.	Akron Regional Air Quality Management District 146 South High Street Akron, Ohio 44308 (330) 375-2480

<u>County</u>	<u>AGENCY #</u>	<u>County</u>	<u>AGENCY #</u>
Adams County (01)	7	Licking County (45)	1
Allen County (02)	3	Logan County (46)	5
Ashland County (03)	3	Lorain County (47)	2
Ashtabula County (04)	2	Lucas County (48)	4
Athens County (05)	6	Madison County (49)	1
Auglaize County (06)	3	Mahoning County (50)	2
Belmont County (07)	6	Marion County (51)	3
Brown County (08)	7	Medina County (52)	16
Butler County (09)	14	Meigs County (53)	6
Carroll County (10)	2	Mercer County (54)	3
Champaign County (11)	5	Miami County (55)	8
Clark County (12)	8	Monroe County (56)	6
Clermont County (13)	14	Montgomery County (57)	8
Clinton County (14)	5	Morgan County (58)	6
Columbiana County (15)	2	Morrow County (59)	1
Coshocton County (16)	6	Muskingum County (60)	6
Crawford County (17)	3	Noble County (61)	6
Cuyahoga County (18)	13	Ottawa County (62)	3
Darke County (19)	8	Paulding County (63)	3
Defiance County (20)	3	Perry County (64)	6
Delaware County (21)	1	Pickaway County (65)	1
Erie County (22)	3	Pike County (66)	6
Fairfield County (23)	1	Portage County (67)	16
Fayette County (24)	1	Preble County (68)	8
Franklin County (25)	1	Putnam County (69)	3
Fulton County (26)	3	Richland County (70)	3
Gallia County (27)	6	Ross County (71)	6
Geauga County (28)	2	Sandusky County (72)	3
Greene County (29)	8	Scioto County (73)	7
Guernsey County (30)	6	Seneca County (74)	3
Hamilton County (31)	14	Shelby County (75)	5
Hancock County (32)	3	Stark County (76)	15
Hardin County (33)	3	Summit County (77)	16
Harrison County (34)	6	Trumbull County (78)	2
Henry County (35)	3	Tuscarawas County (79)	6
Highland County (36)	5	Union County (80)	1
Hocking County (37)	6	Van Wert County (81)	3
Holmes County (38)	2	Vinton County (82)	6
Huron County (39)	3	Warren County (83)	14
Jackson County (40)	6	Washington County (84)	6
Jefferson County (41)	6	Wayne County (85)	2
Knox County (42)	1	Williams County (86)	3
Lake County (43)	2	Wood County (87)	3
Lawrence County (44)	7	Wyandot County (88)	3

County vs. Agency Table

EMISSIONS ACTIVITY CATEGORY FORM GENERAL PROCESS OPERATION

This form is to be completed for each process operation when there is no specific emissions activity category (EAC) form applicable. If there is more than one end product for this process, copy and complete this form for each additional product (see instructions). Several State/Federal regulations which may apply to process 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.

P001) _____

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. End product of this process: _____

4. Hourly production rates (indicate appropriate units). Please see the instructions for clarification of "Maximum" and "Average" for new versus existing operations:

Hourly	Rate	Units (e.g., widgets)
Average production		
Maximum production		

5. Annual production rates (indicate appropriate units) Please see the instructions for clarification of "Maximum" and "Actual" for new versus existing operations:

Annual	Rate	Units (e.g., widgets)
Actual production		
Maximum production		

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR A PROCESS OPERATION

GENERAL INSTRUCTIONS:

This form should be completed for any operation when there is no specific emissions activity category (EAC) form. Refer to the list of EAC forms attached to the PTI application instructions to determine if another form is more appropriate. If multiple products can be manufactured in/by the process, copy and complete this form for each product. If multiple products have only minor variations in composition and raw materials used, they may be grouped onto one form (contact your district office or local air agency representative for assistance). In such cases, the information for the product with the highest hourly raw material usage rate should be entered in Item 4.

Provide complete responses to all applicable questions. If an item does not apply to the emissions unit, write in "Not Applicable" or "NA." If the answer is not known, write in "Not Known" or "NK." If you need assistance in understanding a question after reading the instructions below, contact your Ohio EPA District Office or Local Air Agency for assistance. Submittal of an incomplete application will delay application review and processing. In addition, the application may be returned as incomplete if all applicable questions are not answered appropriately.

APPLICABLE REGULATIONS:

The following State and Federal Regulations may be applicable to process operations. Note that there may be other regulations which apply to this emissions unit which are not included in this list. Due to the general nature of this form, specific regulations are not listed.

Federal: 40 CFR 60, (NSPS)
 40 CFR 61, (NESHAP)
 40 CFR 63, (MACT)

State: OAC rule 3745-31-02 (Permit to Install)
 OAC rule 3745-35-02 (Permit to Operate)
 OAC rule 3745-17 (Particulate Matter Standards)

If you would like a copy of these regulations, contact your Ohio EPA District Office or Local Air Agency. State regulations may also be viewed and downloaded from the Ohio EPA website at <http://www.epa.state.oh.us/dapc/regs/regs.html>. Federal regulations may be viewed and downloaded at <http://www.epa.gov/docs/epacfr40/chapt-I.info/subch-C.htm>.

CALCULATING EMISSIONS:

Manufacturers of some types of emissions units and most types of control equipment develop emissions estimates or have stack test data which you can request. Stack testing of the emissions may be done. Emissions unit sampling test data may be either for this emissions unit or a similar one located at the facility or elsewhere. You may develop your own emission factors by mass balance or other knowledge of your process, if you can quantify inputs and outputs accurately. You may be able to do this on a small scale or over a short period of time, if it is not practical during regular production. If you have control equipment, you may be able to quantify the amount of pollutants collected over a known time period or production amount. Any emission factor calculation should include a reference to the origin of the emission factor or control efficiency.

The emissions from many processes may be estimated using the information from AP-42, Compilation of Air Pollutant Emission Factors, Fifth Edition, Volume I, available from the following website:
<http://www.epa.gov/ttn/chief/ap42/index.html>.

SPECIFIC INSTRUCTIONS:

1. Indicate whether this is an application for a new permit or an application for permit renewal. If applying for a permit renewal, provide the 4-character OEPA emissions unit identification number.
2. Provide the maximum number of hours per day and days per year the process is expected to operate. The following are examples of why the maximum number of hours per day may be less than 24 or the maximum number of days per year may be less than 365 (this list is not all-inclusive):
 - The facility can only operate during daylight hours.
 - The process can only operate within a certain range of ambient temperatures.
 - The process is limited by another operation (i.e., a bottleneck).
3. Specify the end product(s) of this process (e.g., glassware, benzene, chrome plated bumpers, soaps, etc.).
4. State the average and maximum hourly production rates (indicate units) of the process operation. The average hourly production rate is the actual (for existing) annual production for the last full calendar year or projected actual annual production (for new operations) divided by the total hours of operation for that process during the same calendar year or projected hours of production (for new operations).

Formula for average hourly production rate: actual or projected actual annual rate divided by the actual or projected actual annual hours of operation.

"Maximum" is defined as the operation's highest attainable production rate. This often is identified by the manufacturer as the "maximum design capacity" for equipment.

For batch processes, "hours of operation" are identified by the "cycle" time. A "cycle" refers to the time the equipment is in operation. Note that this does not include, if applicable, set up or clean up time associated with batch processing.

5. State the projected annual production and indicate the appropriate units (e. g., 10,000 tons of steel, 150,000 barrels of benzene, etc.). "Maximum" is defined as the operations highest attainable production rate. This often is identified by the manufacturer as the "maximum design capacity" for equipment.
6. State whether the process is continuous or batch. A batch process normally has significant down time between production cycles. If batch, indicate the minimum production cycle time and the minimum down time between production cycles. A "cycle" refers to the time the equipment is in operation. Note that this does not include set up or clean up time associated with down time between batches.
7. List all general types of raw materials employed in the process. Indicate the physical state (solid, liquid, gas) under standard conditions (i.e., 70 degrees Fahrenheit and 14.7 pounds per square inch absolute pressure), the principal use (filler, solvent, reactant, binder, catalyst, fuel, etc.) and specify the amount used, in pounds per hour at maximum production rate.

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MR BRIAN MANGES
SAFETY AND RISK MANAGEMENT
TRUPOINTE
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PIQUA, OH 45356

See reverse for instructions

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<p>2. Article Number (Transfer from service label)</p>	<p>7005 1820 0002 1627 1932</p>
<p>PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-1540</p>	