



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
BUTLER COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 14-04945

DATE: 7/3/2001

Superior Oil Company Inc
Mike Mee
400 West Regent Street
Indianapolis, IN 462251995

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 7/3/2001
Effective Date: 7/3/2001**

FINAL PERMIT TO INSTALL 14-04945

Application Number: 14-04945
APS Premise Number: 1409030749
Permit Fee: **\$800**
Name of Facility: Superior Oil Company Inc
Person to Contact: Mike Mee
Address: 400 West Regent Street
Indianapolis, IN 462251995

Location of proposed air contaminant source(s) [emissions unit(s)]:
**320 Northpointe Drive
Fairfield, Ohio**

Description of proposed emissions unit(s):
1-drum filling line and 1-blower fan for cleaning tankers.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes

only)

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant
OC

Tons Per Year
14.6

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P003 - Drum filling station w/ submerged fill	OAC rule 3745-31-05(A)(3)	8 lbs. OC/hr. 40 lbs. OC/day 7.3 TPY OC
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(D)	See term A.2.b

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limits, submerged fill and compliance with the Air Toxics Policy.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from this facility shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

The permittee shall comply with the rolling, 12-month limitation immediately upon startup under this permit based on past records of monthly HAP emissions.

B. Operational Restrictions

8

Super

PTI A

Issued: 7/3/2001

Emissions Unit ID: **P003**

1. The permittee shall employ a submerged fill process when operating the drum filling station.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each hour and day for the drum filling operation:
 - a. The company identification for each liquid organic material.
 - b. The number of gallons of throughput for each liquid organic material.
 - c. The molecular weight of each liquid organic material (lbs./lb-mole).
 - d. The vapor pressure (psia) of each liquid organic material.
 - e. The total organic compound emission rate for all liquid organic materials, in pounds per day.
 - f. The total organic compound emission rate for all liquid organic materials, in pounds per hour for each hour of the day.

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each liquid material transferred.
 - b. The individual Hazardous Air Pollutant (HAP)* content for each HAP of each liquid material in gallon of individual HAP per gallon of material.
 - c. The total combined HAP content of each liquid material in gallon of combined HAPs per gallon of material [sum all the individual HAP contents from (b)].
 - d. The number of gallons transferred of each liquid material.
 - e. The total individual HAP emissions for each HAP from all liquid materials, in pounds or tons per month (b x d x loading loss emission factor from AP-42).
 - f. The total combined HAP emissions from all liquid materials, in pounds or tons per month [sum of all individual HAP emissions in (e)].
 - g. The updated rolling, 12-month summation of individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

- h. The updated rolling, 12-month summation of total combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

3. The permit to install for this emissions unit P003 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol

TLV (ug/m3): 100,000

Maximum Hourly Emission Rate (lbs/hr): 8.0

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1800

MAGLC (ug/m3): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled: and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. when the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each hour during which the organic compound emissions from the liquid organic materials exceeded 8 pounds per hour, and the actual organic compound emissions for each such hour.
 - b. An identification of each day during which the organic compound emissions from the liquid organic materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
 - c. Deviation reports shall follow the requirements and reporting schedule in the General Terms and Conditions of this permit to install.
2. The permittee shall also submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
3. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were

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Issued

Facility ID: 1409030749

Emissions Unit ID: **P003**

taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.

E. Testing Requirements

1. Compliance with the emissions limits in term A.1. and A.2. shall be determined using the following equation from Paint and Ink Manufacturing, Chapter 8 (2000) and AP-42, 5th edition (1995), Chapter 5:

Mixing losses are the sum of the following equation for each species in the blend:

$$E = [M_x * K * A * P_x * 3600 \text{ s/hr} * H / (R * T)]$$

E = emissions of VOC species, lb/hr

M_x = molecular wt. of VOC species x (lb-lbmole)

K_x = gas-phase mass transfer coefficient for VOC species x (ft./sec)

$$K_x = 0.00438 * U^{0.78} * [18/M_x] \quad \text{where } U = \text{wind speed} = 0.1 \text{ mph}$$

A = surface area of tank (ft.²) Exp. A = 28.27 ft.² for a tank with 6 ft. diameter

P_x = vapor pressure of VOC species x or partial pressure of mixture at temp. T (psia)

$$P_x = m_x * VP_x \quad \text{and} \quad m_x = \text{liquid mole fraction} = (z_x/M_x) / (\sum z_x/M_x)$$

z_x = compound fraction of blend

VP = vapor pressure of compound x (psi)

R = 10.73 psia * cf/lb-mole * R

T = temperature of the liquid in R

H = batch time (hrs/batch)

E mix = E species 1 + E species 2 + E species 3

Loading losses are the sum of the following equation for each species in the blend:

Loading losses (lbs/1000 gallons) = 12.46 SPM/T where

S = saturation factor = 0.5

P = true vapor pressure of the liquid loaded (psia)

M = molecular weight (lbs./lb.-mole)

T = temperature of bulk liquid loaded (degrees R)

E loss = Loading losses * gallons/hour = emissions /hour

Loading losses = E species 1 + E species 2 + E species 3 = lbs. OC/hr for blend

THE = Total hourly emissions = mixing losses (lbs/hr) + loading losses (lbs/hr) = lbs. OC/hr

Daily emissions = THE (lbs./hr) * hr/batch * batches/day = lbs. OC/day

Annual emissions = THE (lbs./hr) * hr/batch * batches /year / 2000 = TPY OC emitted

2. Compliance with the HAP emissions limitation in term A.2.b shall be demonstrated by the recordkeeping in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.2.a, A.2.b, B.1, C.1, C.2, D.1 - D.3, E.1, E.2.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P004 - Blower fan for cleaning tanker trucks	OAC rule 3745-31-05(A)(3)	8 lbs. OC/hr. 40 lbs. OC/day 7.3 TPY OC
	OAC rule 3745-21-07(G)(2)	This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(D)	See term A.2.b

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limits and recordkeeping.
- 2.b** The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from this facility shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

The permittee shall comply with the rolling, 12-month limitation immediately upon startup under this permit based on past records of monthly HAP emissions.

B. Operational Restrictions

1. The permittee shall install, operate and maintain a blower fan rated at 2500 acfm. If a different size fan is installed, the permittee shall notify the Hamilton County Department of Environmental Services - Air Quality Division prior to the change.
2. The permittee shall not operate this emissions unit for more than 4 tanker trucks per day.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each day for the tanker truck drying operation:
 - a. The company identification for each liquid organic material evaporated from each tanker truck.
 - b. The number of minutes to blow dry each tanker truck.
 - c. The number of tanker trucks blown dry per day.
 - d. The organic compound content of each material blown dry in each tanker truck, in pounds OC per gallon..
 - e. The total organic compound emission rate for all liquid organic materials evaporated from the tanker trucks, in pounds per day. This is the sum of [1.095 gallons/truck * (d)] for each truck processed during the day.
 - f. The total number of hours the emissions unit was in operation, in hours per day.
 - g. The average hourly organic compound emission rate for all materials, i.e., (e)/(f), in pounds per hour (average).

Note: See equations in the Testing section, E.1. Test results indicate 1.095 gallons of residual

material per truck.

2. The permittee shall collect and record the total annual organic compound emission rate for all liquid materials evaporated from the tanker trucks, in pounds or tons per year (annual sum of C.1.e).
3. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each liquid material evaporated.
 - b. The total individual HAP emissions for each HAP from all liquid materials evaporated, in pounds or tons per month (see term E.1).
 - c. The total combined HAP emissions from all liquid materials evaporated, in pounds or tons per month (see term E.1).
 - d. The updated rolling, 12-month summation of individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.
 - e. The updated rolling, 12-month summation of total combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each hour during which the organic compound emissions from the evaporated liquid organic materials exceeded 8 pounds per hour, and the actual organic compound emissions for each such hour.
 - b. An identification of each day during which the organic compound emissions from the evaporated liquid organic materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

- c. Deviation reports shall follow the requirements and reporting schedule in the General Terms and Conditions of this permit to install.
2. The permittee shall also submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
3. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP usage limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.

E. Testing Requirements

1. Compliance with the emissions limits in term A.1. and A.2. shall be determined using the following equations:

Emissions OC (lbs/hr) = Lbs. OC/day divided by the hours of operation of P004 / day.

Emissions OC (lbs/day) = sum of lbs. OC emitted from each liquid organic material evaporated during the day.
 = sum of [1.095 residual gallons /truck x organic compound content of the liquid organic material in the truck (lbs./gallon)]

Emissions OC (TPY) = the sum of the daily emissions rates for each day of operation in the calendar year.

2. Compliance with the HAP emissions limitation in term A.2.b shall be demonstrated by the record keeping in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.2.a, A.2.b, B.1, C.1 - C.3, D.1 - D.3, E.1, E.2.

NEW SOURCE REVIEW FORM B

PTI Number: 14-04945

Facility ID: 1409030749

FACILITY NAME Superior oil Company Inc

FACILITY DESCRIPTION 1-drum filling line and 1-blower fan for CITY/TWP Fairfield

Emissions Unit ID: **P004**

SIC CODE 5169

SCC CODE 4-08-999-99

EMISSIONS UNIT ID P003

EMISSIONS UNIT DESCRIPTION Drum filling station

DATE INSTALLED When PTI rec'd.

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Pounds per hour	Tons Per Year	Pounds per hour	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds		8	4.5	8	7.3
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? No

NESHAP? No

PSD? No

OFFSET POLICY? No

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Emissions limits, the use of submerged fill and compliance with the Air Toxics Policy.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$ NA

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*?

X

YES

 NO

IDENTIFY THE AIR CONTAMINANTS:

Ethylene Glycol

20 NEW SOURCE REVIEW FORM B

PTI Number: 14-04945

Facility ID: 1409030749

FACILITY NAME Superior OIL Company Inc

FACILITY DESCRIPTION 1-drum filling line and 1-blower fan for CITY/TWP Fairfield

Emissions Unit ID: **P004**

SIC CODE 5169

SCC CODE

4-09-004-01,02,05,99

EMISSIONS UNIT ID

P004

EMISSIONS UNIT DESCRIPTION Blower fan for cleaning tanker trucks

DATE INSTALLED

When PTI rec'd.

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Pounds per hour	Tons Per Year	Pounds per hour	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds		8.0	4.2	8.0	7.3
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? No

NESHAP? No

PSD? No

OFFSET POLICY? No

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Emission limitations.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$NA

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*?

YES

X NO

IDENTIFY THE AIR CONTAMINANTS:

NA

2 NEW SOURCE REVIEW FORM B

PTI Number: 14-04945

Facility ID: 1409030749

FACILITY NAME Superior OIL Company Inc

FACILITY DESCRIPTION 1-drum filling line and 1-blower fan for CITY/TWP Fairfield

Emissions Unit ID: **P004**

Please describe any hard copy information is being submitted with this recommendation (Please send hard copy information to Pam McGraner, DAPC Central Office - Air Quality Modeling and Planning):

Toxic Screening Analysis

Please provide any additional permit specific notes as you deem necessary:

PERMIT REVIEW NARRATIVE

PTI Application No. 14-04945

Superior Oil Company, Inc.
320 Northpointe Drive
Fairfield, Ohio 45014
PN: 1409030749

Superior Oil Company has proposed to install two new emissions units - a second drum filling station and a blower fan for cleaning tanker trucks.

The applicable regulations are:

OAC rule 3745-31-05 Best Available Technology (BAT) will be met by hourly, daily, and annual OC emissions limits, and submerged fill for the drum filling station. ***Additionally, P004 has operational restrictions for the number of trucks that can be blown dry in a day.*** OC emissions from emissions unit ***P003*** and P004 will be limited to 8 pounds OC per hour, 40 pounds OC per day, and 7.3 TPY OC. Recordkeeping and reporting will be used to determine compliance with the permit limits. Combined annual emissions for the two emissions units are 25.3 TPY of OC.

OAC rule 3745-21-07(G)(2) limits the OC emissions from each emissions unit to 8 pounds per hour and 40 pounds per day when employing photochemically reactive materials in P003.

OAC rule 3745-15-07 Air pollution nuisances shall be prohibited.

Actual emissions from the blower fan station, emissions unit P004, are based on information in PTI application 14-04945 and test results from air sampling provided by the permittee. ***The volume of the residual material left in the tanker was calculated using data from three test runs for emissions. The residual volume of 1.095 gallons in the tanker truck was assumed to be valid for all materials transported at the facility. Consequently, actual emissions are calculated by multiplying 1.095 gallons by the organic content of the material being cleaned out of the tanker truck.***

Because this emissions unit will comply with applicable OAC rules, approval of this PTI is recommended.

The permit fees for these emissions units are:

P003 \$ 600 - 806 gals./hour x 12.1 lbs/gallon = 9758 lbs./hour

P004 \$ 200 - Minimum process weight rate..

21 NEW SC

PTI Num

FACILITY

FACILITY DESCRIPTION

1-drum filling line and 1-blower fan for
cleaning tankers

CITY/TWP

Emissions Unit ID: P004

Fairfield

Prepared By: Barbara Kerdolff

Date Prepared: May 16, 2001

Permit To Install Synthetic Minor Write-Up

Superior Oil Company, Inc.
PTI Application No. 14-04945

A. Source Description:

Superior Oil Company has proposed to install two new emissions units - a second drum filling station and a blower fan for cleaning tanker trucks. The Ohio EPA identification numbers for these emissions units are P003 and P004, respectively. Superior Oil Company, Inc. has an existing drum filling station, truck loading rack, mixing tank, and twelve storage tanks in active permit status.

B. Facility Emissions and Air Quality Designations:

Superior Oil Company, Inc. is located in Butler County, Ohio. Butler County is designated as attainment for PM/PM₁₀, SO₂, CO, OC, and NO_x for purposes of new source review.

C. New Source Emissions:

Without federally enforceable terms and conditions, Superior Oil Company would have a potential to emit greater than 10 TPY for any individual HAP and 25 TPY for combined HAPs. Hazardous air pollutants (HAP) will be limited to less than 25 tons per year of combined HAPs and 10 tons per year of any single HAP.

The permittee will demonstrate compliance with the limitations by recording chemical/solvent throughput information per hour, day, and year. The permittee is required to keep records of the operation time for the fan (P004), and the molecular weight of chemicals transferred in order to calculate HAP emissions.

D. Conclusions:

Through this synthetic minor Permit To Install (PTI), Superior Oil Company, Inc. will be limited to less than 10 tons per year of any one HAP and 25 tons per year of any combination of HAPs. For this reason, Superior Oil Company, Inc. is not considered a major facility for the purposes of MACT and Title V permitting.

Please fill in the following for this permit:

NEW SOURCE REVIEW FORM B

PTI Number: 14-04945

Facility ID: 1409030749

FACILITY NAME Superior OIL Company Inc

FACILITY DESCRIPTION 1-drum filling line and 1-blower fan for CITY/TWP Fairfield

Emissions Unit ID: **P004**

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant

OC

Tons Per Year

14.6