



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

**RE: PERMIT TO INSTALL MODIFICATION  
RICHLAND COUNTY  
Application No: 03-3146**

**CERTIFIED MAIL**

	TOXIC REVIEW
	PSD
X	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
X	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE: December 8, 1999**

PPG Industries, Inc. - Crestline  
Susan T Corbin  
5066 State Route 30  
Crestline, OH 44827

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

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  
DAPC, NWDO



Permit To Install  
Terms and Conditions

Issue Date: December 8, 1999  
Effective Date: December 8, 1999

**ADMINISTRATIVE MODIFICATION PERMIT TO INSTALL 03-3146**

Application Number: 03-3146

APS Premise Number: 0370000217

Permit Fee: \$ 0

Name of Facility: PPG Industries, Inc. - Crestline

Person to Contact: Susan T Corbin

Address: 5066 State Route 30  
Crestline, OH 44827

Location of proposed air contaminant source(s) [emissions unit(s)]:

**5066 State Route 30  
Crestline, Ohio**

Description of proposed emissions unit(s):

**15.8 MMBTU/HR DIESEL GENERATOR.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

\_\_\_\_\_  
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 are inadequate 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 prove to be inadequate 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.

**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**

<u>Pollutant</u>	<u>Tons Per Year</u>
NO <sub>x</sub>	62.5
CO	5.0
OC	1.9
SO <sub>2</sub>	9.9
PE	1.23

---

**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.

<b>Operations, Property, and/or Equipment</b>	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
P016 - 15.8 MMBtu/hr diesel generator	OAC rule 3745-31-05	Particulate Emissions (PE) 0.062 lb/MMBtu 0.98 lb/hr 1.23 TPY; SO <sub>2</sub> 0.5 lb/MMBtu 7.9 lbs/hr 9.9 TPY; OC 0.09 lb/MMBtu 1.5 lbs/hr 1.9 TPY; NO <sub>x</sub> 3.2 lbs/MMBtu 50 lbs/hr 62.5 TPY; and, CO 0.25 lb/MMBtu 4.0 lbs/hr 5.0 TPY.
	Synthetic minor to avoid Title V and Prevention of Significant Deterioration (PSD) requirements	NO <sub>x</sub> 62.5 TPY, as a rolling, 12-month summation; and, 282,500 gallons per year, as a rolling, 12-month summation.
	OAC rule 3745-17-07 (A)	20% opacity as a 6-minute average, except as provided by rule
	OAC rule 3745-17-11 (B)(5)(b)	Particulate emissions shall not exceed 0.062 lb/MMBtu
	OAC rule 3745-18-06 (G)	SO <sub>2</sub> emissions shall not exceed 0.5 lb/MMBtu

2. **Additional Terms and Conditions**

In order to avoid Title V applicability and Prevention of Significant Deterioration (PSD) review for NO<sub>x</sub>, the permittee has decided to limit the potential to emit from the emissions units of this Permit to Install by limiting their number of gallons of diesel fuel used.

**B. Operational Restrictions**

1. The permittee shall burn only number two fuel oil in this emission unit.

The maximum annual fuel usage for this emissions unit shall not exceed 282,500 gallons diesel fuel per year, based upon a rolling, 12-month summation of the fuel usage.

To ensure enforceability during the first 12 months of operation following the issuance of this permit, the permittee shall not exceed the following diesel fuel usages specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Fuel Usage (gallons)</u>
1	23,542
1-2	47,084
1-3	70,626
1-4	94,168
1-5	117,710
1-6	141,252
1-7	164,794
1-8	188,336
1-9	211,878
1-10	235,420
1-11	258,962
1-12	282,500

After the first 12 calendar months of operation following the issuance of the permit, compliance with the annual fuel usage limitation for P016 shall be based upon a rolling, 12-month summation of the fuel usage.

2. The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in term A.1. of Part II above.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records for emission unit P016, which contain:
  - a. The number of gallons of diesel fuel combusted each month.

- b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the fuel usage.
- c. The calculated emissions of all pollutants.
- d. The year to date summation of all pollutants, in TPY.

Also, during the first 12 calendar months of operation following the issuance of his permit, the permittee shall record the cumulative fuel usage of each calendar month.

2. The permittee shall collect or require the fuel oil supplier to collect a representative grab sample for each shipment of fuel that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
3. For each shipment of diesel fuel received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses of sulfur content and heat content.
4. For each day during which the permittee burns fuel other than number two fuel oil, the permittee shall maintain a record at the type and quantity of fuel burned in this emissions unit.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative fuel usage levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
3. The permittee shall also submit annual reports which specify the total nitrogen oxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

#### **E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing on emission unit P016. The test shall be conducted in accordance with the following requirements:
  - a. The emission testing shall be conducted approximately 90 days following the start-up of this emissions unit.

- b. The emission testing shall be conducted on emissions unit P016 to demonstrate compliance with the allowable mass emissions rates for NO<sub>x</sub>.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate: NO<sub>x</sub> - Test Method 7 or 7E, 40 CFR Part 60, Appendix A.

The emission testing shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Northwest District Office (NWDO) of the Ohio Environmental Protection Agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the NWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the NWDO refusal to accept the results of the emission test(s).

Personnel from the NWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the NWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the NWDO.

- 2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. **Emission Limitation**

3.2 lbs NO<sub>x</sub>/MMBtu, 50 lbs NO<sub>x</sub>/hr

**Applicable Compliance Method**

Compliance shall be demonstrated based on performance testing specified in E.1.

- b. **Emission Limitation**

62.5 TPY NO<sub>x</sub>

**Applicable Compliance Method**

Compliance shall be demonstrated by the monitoring and recordkeeping specified in C.1.

c. **Emission Limitation**

0.062 lb PE/MMBtu

**Applicable Compliance Method**

Compliance shall be demonstrated based on calculations using AP-42 Emission Factors Chapter 3.4 (10/96), and a maximum fuel Btu heat content of 140,000 Btu/gal. If required, compliance with the PE limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

d. **Emission Limitation**

0.98 lb PE/hr

**Applicable Compliance Method**

The emission limitation was developed by multiplying the lbs PE/MMBtu allowable mass emission limitation by a maximum heat input capacity of 15.8 MMBtu/hr. Therefore, provided compliance is shown with the lb/MMBtu requirement, compliance will be shown with the hourly limitation..

e. **Emission Limitation**

1.23 TPY PE

**Applicable Compliance Method**

Compliance shall be demonstrated by the monitoring and recordkeeping specified in C.1.

f. **Emission Limitation**

0.5 lb SO<sub>2</sub>/MMBtu

**Applicable Compliance Method**

The sulfur dioxide lb/mmBTU actual heat input allowable of 0.5 is based upon the following emission factor of 1.01(S) lb/mmBTU using a sulfur content (S) of 0.495. This is a one time calculation to determine compliance for the above limitation as long as the applicant maintains compliance with the fuel oil gallon restriction listed in the permit.

g. **Emission Limitation**

7.9 lbs SO<sub>2</sub>/hr

**Applicable Compliance Method**

Compliance shall be demonstrated by the monitoring and record keeping specified in C.2 and C.3, and the use of the equation contained in OAC rule 3745-18-04(F)(2).

h. **Emission Limitation**

9.9 TPY SO<sub>2</sub>

**Applicable Compliance Method**

Compliance shall be demonstrated by the monitoring and recordkeeping specified in C.1

i. **Emission Limitation**

0.09 lb OC/MMBtu

**Applicable Compliance Method**

Compliance shall be demonstrated based on calculations using AP-42 Emission Factors Chapter 3.4 (10/96), and a maximum fuel Btu heat content of 140,000 Btu/gal. If required, compliance with the OC limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 18, 25, or 25A.

j. **Emission Limitation**

1.5 lbs OC/hr

**Applicable Compliance Method**

The emission limitation was developed by multiplying the lbs OC/MMBtu allowable mass emission limitation by a maximum heat input capacity of 15.8 MMBtu/hr. Therefore, provided compliance is shown with the lb/MMBtu requirement, compliance will be shown with the hourly limitation.

k. **Emission Limitation**

1.9 TPY OC

**Applicable Compliance Method**

Compliance shall be demonstrated by the monitoring and recordkeeping specified in C.1.

l. **Emission Limitation**

0.25 lb CO/MMBtu

**Applicable Compliance Method**

Compliance shall be demonstrated based on calculations using manufacturer's supplied emission factor of 4.0 pounds CO/hr, and a maximum fuel Btu heat content of 140,000 Btu/gal. If required, compliance with the CO limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 10.

m. **Emission Limitation**

4.0 lbs CO/hr

**Applicable Compliance Method**

The emission limitation was developed by multiplying the lbs CO/MMBtu allowable mass emission limitation by a maximum heat input capacity of 15.8 MMBtu/hr. Therefore, provided compliance is shown with the lb/MMBtu requirement, compliance will be shown with the hourly limitation.

n. **Emission Limitation**

5.0 TPY CO

**Applicable Compliance Method**

Compliance shall be demonstrated by the monitoring and recordkeeping specified in C.1.

o. **Emission Limitation**

62.5 TPY nitrogen oxides, as a rolling, 12-month summation

**Applicable Compliance Method**

Compliance shall be based upon recordkeeping as specified in C.1.

p. **Operational Restriction**

The maximum annual diesel fuel usage for this emissions unit shall not exceed 282,500 gallons per year based upon a rolling, twelve-month summation.

**Applicable Compliance Method**

Compliance shall be determined by the monitoring and recordkeeping in section C. 1. of this permit.

**F. Miscellaneous Requirements**

None.