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Application Number: **14-4684**

Date: **April 28, 1999**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(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 source(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 Ohio Administrative Code

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(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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION 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 and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Atlas Roofing Corporation** located in **Warren County**. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P902	15.01 TPH filler heater and feed system with fabric filter	Use of a fabric filter	40 CFR 60 Subpart UU 3745-17-07 (A) (1)	See T&C A.1. Less stringent than 40 CFR 60 Subpart UU.
			3745-17-11 (B) *	Less stringent than BAT
			3745-18-06 (D) *	Less stringent than BAT
			3745-31-05 (BAT)	0.74 lb/hr PM/PM ₁₀ , 3.23 TPY PM/PM ₁₀ ; 2.74 lbs/hr SO ₂ , 12.0 TPY SO ₂ ; 0.77 lb/hr NO _x , 3.38 TPY NO _x ; 0.46 lb/hr

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CO,
 1.95
 TPY CO;
 0.03
 lb/hr
 VOC,
 0.13
 TPY VOC

 0.51 lb
 SO₂/MMB
 tu

* The emission limitation established by this rule is less stringent than that established by OAC rule 3745-31-05

SUMMARY
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Organic Compound	0.13
PM	3.23
SO ₂	12.0
NO _x	3.38
CO	1.95
PM ₁₀	3.23

REPORTING REQUIREMENTS

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Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Hamilton County Dept of Env. Services, 250 William Howard Taft Road, Cincinnati, Ohio 45219-2660.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

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MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Hamilton County Dept of Env. Services, 250 William Howard Taft Road, Cincinnati, Ohio 45219-2660.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Applicable Emissions Limitations and/or Control Requirements

1. Visible particulate emissions from any stack associated with emissions unit P902 shall not exceed 1 percent opacity, as a six-minute average, except as specified by rule.
2. For lbs/hr and TPY emissions limitations see the Air Emissions Summary page of this permit.
3. The hourly emission limitation outlined on the Air

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Emissions Summary page of this permit is based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with this limit.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within a range of not less than 6 inches of water or greater than 8 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. 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 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.

D. Reporting Requirements

1. Except as otherwise may be provided in reporting requirements for a specific emissions unit, the permittee shall submit required reports in the following manner:

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- a. reports of any required monitoring and/or recordkeeping information shall be submitted to the Hamilton County Dept. of Env. Services; and,
- 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 Hamilton County Dept. of Env. Services.

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).

2. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in term B.1.

E. Testing Requirements

1. Compliance with the visible particulate emissions limit in section A.1. of these terms and conditions shall be demonstrated by the methods outlined in 40 CFR 60, Appendix A, Method 9.
2. The permittee shall conduct, or have conducted,

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emission testing for this emissions unit in accordance with the following requirements:

- a. the emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after the modification;
- b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;
- c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limit: 40 CFR 60, Appendix A, Method 9, if applicable. Alternative U.S. EPA approved test methods may be used with prior approval from the Hamilton County Department of Environmental Services; and,
- d. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. 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 Hamilton County Department of Environmental Services refusal to accept the results of the emission test(s).

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Personnel from the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services.

3. Compliance with the lbs/hr PM/PM₁₀ emissions limit in the Air Emissions Summary section of this permit shall be the summation of a. and b. using Emission Factors (EF) from AP-42, Fifth Edition, 1998:
 - a. for lbs/hr PM emissions from the filler heater (process) - actual hourly production rate (tons/hr) * (Table 11.17-4 EF, 2.2 lbs/ton) * fabric filter control efficiency (1-0.99); and,
 - b. for lbs/hr PM emissions from No. 2 fuel oil - actual hourly fuel usage (thousandths gal/hr of No. 2 fuel oil) * (Table 1.3-1 EF, 2 lbs/thous gal) or

for lbs/hr PM emissions from natural gas - actual hourly fuel usage (mmcf/hr of natural gas) * (Table 1.4-2 EF, 5.7 lbs/mmcf).

4. Compliance with the TPY PM/PM₁₀ emissions limit in the Air Emissions Summary section of this permit shall be the summation of a. and b. and c. using Emission

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Factors (EF) from AP-42, Fifth Edition, 1998;

- a. for TPY PM emissions from the filler heater (process) - actual annual production rate (tons/yr) * (Table 11.17-4 EF, 2.2 lbs/ton) * fabric filter control efficiency (1-0.99) * ton/2000 lbs;
 - b. for TPY PM emissions from No. 2 fuel oil - actual annual fuel usage (thousands gal/yr of No. 2 fuel oil) * (Table 1.3-1 EF, 2 lbs/thous gal) * ton/2000 lbs; and,
 - c. for TPY PM emissions from natural gas - actual annual fuel usage (mmcf/yr of natural gas) * (Table 1.4-2 EF, 5.7 lbs/mmcf) * ton/2000 lbs.
5. Compliance with the lbs/hr SO₂ emissions limit in the Air Emissions Summary section of this permit shall be demonstrated by the following equations using Emission Factors (EF) from AP-42, Fifth Edition, 1998:
- a. for lbs/hr SO₂ emissions from No. 2 fuel oil - actual hourly fuel usage (thousandths gal/hr of No. 2 fuel oil) * (Table 1.3-1 EF, 71 lbs/thous gal); and,

for lbs/hr SO₂ emissions from natural gas - actual hourly fuel usage (mmcf/hr of natural gas) * (Table 1.4-2 EF, 0.6 lbs/mmcf).
6. Compliance with the TPY SO₂ emissions limit in the Air Emissions Summary section of this permit shall be the summation of a. and b. using Emission Factors (EF) from AP-42, Fifth Edition, 1998:
- a. for TPY SO₂ emissions from No. 2 fuel oil - actual annual fuel usage (thousands gal/yr of No. 2 fuel oil) * (Table 1.3-1 EF, 71 lbs/thous gal) * ton/2000 lbs; and,
 - b. for TPY SO₂ emissions from natural gas - actual annual fuel usage (mmcf/yr of natural gas) * (Table 1.4-2 EF, 0.6 lbs/mmcf) * ton/2000 lbs.

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7. Compliance with the lbs/hr NO_x emissions limit in the Air Emissions Summary section of this permit shall be demonstrated by the following equations using Emission Factors (EF) from AP-42, Fifth Edition, 1998:
 - a. for lbs/hr NO_x emissions from No. 2 fuel oil - actual hourly fuel usage (thousandths gal/hr of No. 2 fuel oil) * (Table 1.3-1 EF, 20 lbs/thous gal); and,

for lbs/hr NO_x emissions from natural gas - actual hourly fuel usage (mmcf/hr of natural gas) * (Table 1.4-1 EF, 100 lbs/mmcf).
8. Compliance with the TPY NO_x emissions limit in the Air Emissions Summary section of this permit shall be the summation of a. and b. using Emission Factors (EF) from AP-42, Fifth Edition, 1998:
 - a. for TPY NO_x emissions from No. 2 fuel oil - actual annual fuel usage (thousands gal/yr of No. 2 fuel oil) * (Table 1.3-1 EF, 20 lbs/thous gal) * ton/2000 lbs; and,
 - b. for TPY NO_x emissions from natural gas - actual annual fuel usage (mmcf/yr of natural gas) * (Table 1.4-1 EF, 100 lbs/mmcf) * ton/2000 lbs.
9. Compliance with the lbs/hr CO emissions limit in the Air Emissions Summary section of this permit shall be demonstrated by the following equations using Emission Factors (EF) from AP-42, Fifth Edition, 1998:
 - a. for lbs/hr CO emissions from No. 2 fuel oil - actual hourly fuel usage (thousandths gal/hr of No. 2 fuel oil) * (Table 1.3-1 EF, 5 lbs/thous gal); and,

for lbs/hr CO emissions from natural gas - actual hourly fuel usage (mmcf/hr of natural gas) * (Table 1.4-1 EF, 84 lbs/mmcf).
10. Compliance with the TPY CO emissions limit in the Air

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Emissions Summary section of this permit shall be the summation of a. and b. using Emission Factors (EF) from AP-42, Fifth Edition, 1998:

- a. for TPY CO emissions from No. 2 fuel oil - actual annual fuel usage (thousands gal/yr of No. 2 fuel oil) * (Table 1.3-1 EF, 5 lbs/thous gal) * ton/2000 lbs; and,
 - b. for TPY CO emissions from natural gas - actual annual fuel usage (mmcf/yr of natural gas) * (Table 1.4-1 EF, 84 lbs/mmcf) * ton/2000 lbs.
11. Compliance with the lbs/hr VOC emissions limit in the Air Emissions Summary section of this permit shall be demonstrated by the following equations using Emission Factors (EF) from AP-42, Fifth Edition, 1998:
- a. for lbs/hr VOC emissions from No. 2 fuel oil - actual hourly fuel usage (thousandths gal/hr of No. 2 fuel oil) * (Table 1.3-3 EF, 0.34 lbs/thous gal); and,

for lbs/hr VOC emissions from natural gas - actual hourly fuel usage (mmcf/hr of natural gas) * (Table 1.4-2 EF, 5.5 lbs/mmcf).
12. Compliance with the TPY VOC emissions limit in the Air Emissions Summary section of this permit shall be the summation of a. and b. using Emission Factors (EF) from AP-42, Fifth Edition, 1998:
- a. for TPY VOC emissions from No. 2 fuel oil - actual annual fuel usage (thousands gal/yr of No. 2 fuel oil) * (Table 1.3-3 EF, 0.34 lbs/thous gal) * ton/2000 lbs; and,
 - b. for TPY VOC emissions from natural gas - actual annual fuel usage (mmcf/yr of natural gas) * (Table 1.4-2 EF, 5.5 lbs/mmcf) * ton/2000 lbs.

F. Miscellaneous Requirements

1. The following terms and conditions shall supersede all

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Air Pollution Control requirements for this emissions unit contained in permit to install 14-1315 as issued on November 12, 1987: A-E.