

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Press-On Tape & Gasket Corporation  
Attn: Henry J. Gianatasio  
1020 South Westgate Drive  
Addison, Illinois 60101

Application No.: 00010017

I.D. No.: 043005AMQ

Applicant's Designation:

Date Received: January 10, 2000

Subject: Catalytic Afterburner

Date Issued: February 8, 2000

Location: 1020 South Westgate Drive, Addison

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of catalytic afterburner with total enclosure as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. The catalytic afterburner may be operated for a period of 180 days under this Construction Permit.
2. Within 90 days of initial startup, the VOM emissions of the catalytic afterburner shall be measured during conditions which are representative of maximum emissions.
3. The following methods and procedures shall be used for testing of emissions, unless another method is approved by the Illinois EPA: Refer to 40 CFR 60, Appendix A, and 40 CFR 61, Appendix B, for USEPA test methods.

Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Flue Gas Weight	USEPA Method 3
Moisture	USEPA Method 4
Volatile Organic Material	USEPA Method 25, 25A if outlet VOM cont. < 50 ppmv as C Non CH <sub>4</sub>

4. At least 30 days prior to the actual date of testing, a written test plan shall be submitted to the Compliance Section of the Division of Air Pollution Control for review. This plan shall describe the specific procedures for testing, including as a minimum:
  - a. The person(s) who will be performing sampling and analysis and their experience with similar tests.

- b. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the emission unit and any control equipment will be determined.
  - c. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
  - d. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods. The specific sampling, analytical and quality control procedures which will be used, with an identification of the standard methods upon which they are based.
  - e. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification.
  - f. Any proposed use of an alternative test method, with detailed justification.
  - g. The format and content of the Source Test Report.
5. The test shall be designed to measure both the destruction efficiency across the afterburner and the overall control efficiency provided by the combination of the capture system and afterburner.
- 6a. Within 30 days of completion of construction of the catalytic afterburner in the above referenced permit application, the organic material concentrations in the effluent stream of the catalytic afterburner shall be measured by an approved testing service. These tests shall be conducted in accordance with 35 Ill. Adm. Code 218.105.
- b. The test procedures shall be designed to verify both 90% destruction of VOM across the afterburner and 85% overall control of VOM by the capture system and afterburner as required by 35 Ill. Adm. Code 218.207(b). Prior to conducting such a test, the Agency shall be consulted to verify that the intended test method is appropriate for use in testing this equipment to show compliance with this rule.
  - c. This test shall be conducted during circumstances which are representative of maximum emissions, and equipment data and material usage during the test shall be recorded.
7. Copies of the Final Report(s) for these tests shall be submitted to the Illinois EPA within 14 days after the test results are compiled and finalized.

8. Within 30 days after completion of sampling, the Final Report shall include as a minimum:
  - a. A summary of results
  - b. General information
  - c. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule
  - d. Detailed description of test conditions, including
    - i. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption
    - ii. Control equipment information, i.e., equipment condition and operating parameters during testing, and
    - iii. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair
  - e. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration
  - f. An explanation of any discrepancies among individual tests or anomalous data
  - g. The results of all quality control evaluation, including a copy of all quality control data.
9. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Eisenhower Tower  
1701 South First Avenue  
Maywood, Illinois 60153

10. The volatile organic material concentration in the effluent stream of the afterburner shall be measured by an approved independent testing service, within 45 days of a written request by the Illinois EPA for such a test. The Illinois EPA will require this test if, based on observations by Field personnel, the afterburner is poorly maintained or operated so as to make compliance with 35 Ill. Adm. Code 218.207 uncertain.
11. Emissions and operation of the catalytic afterburner shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Maximum Firing Rate (mmBtu/Hr)</u>	<u>Pollutant</u>	<u>Emission Factor (Lb/mmscf)</u>	<u>Emissions (Lb/Hr) (Ton/Yr)</u>	
Burner (Each)	2.5	NO <sub>x</sub>	100	.25	1.07
		CO	84	.21	.90
		TSP	7.6	.02	.08
		VOM	5.5	.01	.04

These limits are based on standard AP-42 emission factors and 8,760 hours of operation. Compliance with annual limits shall be determined from a running total of 12 months of data.

12. Satisfactory completion of these tests so as to demonstrate compliance with applicable emission limits is a prerequisite to issuance of an operating permit, pursuant to 35 Ill. Adm. Code 201.160(a), (b) and (c).

If you have any questions on this, please call Eric Jones at 217/782-2113.

Donald E. Sutton, P.E.  
 Manager, Permit Section  
 Division of Air Pollution Control

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cc: Region 1