



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: FINAL PERMIT TO INSTALL  
PORTAGE COUNTY  
Application No: 16-01951**

**CERTIFIED MAIL**

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

**DATE: February 16, 2000**

OMNOVA Solutions Inc. formerly GENCORP  
Al Sampson  
165 South Cleveland Avenue  
Mogadore, OH 44260-1505

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, buy 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  
AKRON REGIONAL AIR QUALITY MANAGEMENT



**Permit To Install**

**Issue Date: February 16, 2000**

**Terms and Conditions**

**Effective Date: February 16, 2000**

**FINAL PERMIT TO INSTALL 16-01951**

Application Number: 16-01951

APS Premise Number: 1667000007

Permit Fee: **\$800**

Name of Facility: OMNOVA Solutions Inc. formerly GENCORP

Person to Contact: Al Sampson

Address: 165 South Cleveland Avenue  
Mogadore, OH 44260-1505

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

**165 South Cleveland Avenue  
Mogadore, Ohio**

Description of proposed emissions unit(s):

**BUTADIENE DISTILLATION COLUMN, OVERHEAD CONDENSER, REFLUX DRUM, REFLUX PUMP, REBOILER, RETURN POT, AND PUMPS.**

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

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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**

**Pollutant**

**Tons Per Year**

See notation in the emissions unit specific BAT determination.

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**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>
Butadiene Distillation Column, overhead condenser, reflux drum, reboiler, pumps. Vented to an existing Process Combustion Corp. Thermal Incinerator.	OAC rule 3745-31-05(A)(3)	Less stringent than the requirements of OAC 3745-31-05(D) below.
	OAC rule 3745-21-07(G)	See A.2.e below.
	OAC rule 3745-35-07(B), and OAC rule 3745-31-05(D)	See A.2.a.i, A.2.a.ii, A.2.a.iii A.2.b, A.2.c, A.2.d and A.2.f below.

**2. Additional Terms and Conditions**

- 2.a The permittee shall vent the emissions of organic compounds from P004, P013, P014, and P106 (non-halogenated compounds only), and P110-P116 to a thermal oxidizer control system which meets the following requirements:
  - i. Emissions of organic compounds from the thermal oxidizer shall not exceed 2.15 tons per year, based upon a rolling, 12-month summation of the organic compound emissions.
  - ii. Hourly emissions from the thermal oxidizer shall not exceed the following limits:
    - (a) organic compounds, 5.31 pounds per hour;
    - (b) nitrogen oxides, 2.50 pounds per hour;
    - (c) butadiene, 1.41 pounds per hour; and
    - (d) styrene, 1.81 pounds per hour.
  - iii. The thermal oxidizer shall achieve a 98 percent control efficiency for the carbon that is being incinerated to carbon dioxide.
- 2.b Emissions of styrene from the facility shall not exceed 5.0 tons per year, based upon a rolling, 12-month summation.
- 2.c The emissions [as defined by OAC rule 3745-77-01(BB)] of hazardous air pollutants (HAPs) from this facility, as identified in Section 112(b) of Title III of the Clean Air Act, shall not

exceed 10 TPY for any individual HAP and 25 TPY for any combined HAPs, based upon rolling, 12-month summations.

- 2.d The permittee shall employ and maintain continuous steam stripping equipment to remove organic compounds from the wastewater exiting the condensate pretreatment tanks. The organic compound emissions from the continuous steam stripping equipment shall be vented to the thermal oxidizer.
- 2.e The emissions limit based on this applicable rule is less stringent than the limit established pursuant to the control requirements established under OAC rules 3745-31-05(D) and 3745-37-05(B) as listed in sections A.2.a.iii, and A.2.d above.
- 2.f The permittee has sufficient data to demonstrate compliance with the terms in sections A.2.a.ii, A.2.a.iii, and A.2.d for the last 12 months.

## B. Operational Restrictions

1. The thermal oxidizer shall be operated whenever organic compounds may be vented to it.
2. The average temperature of the exhaust gases from the thermal oxidizer, for any 3-hour block of time, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
3. The wastewater "bottoms" stream from the continuous steam stripping equipment shall be piped directly to the county-owned sewer system and shall be discharged below-grade.

## C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal oxidizer when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall operate and maintain equipment to continuously monitor and record organic compound (OC) emissions from the thermal oxidizer in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The continuous OC monitoring system, which includes the flow monitoring equipment, shall maintain a minimum 95 percent data capture efficiency.

A statement of certification of the existing continuous organic compound monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified

in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

The permittee shall have developed a written quality assurance/quality control plan for the continuous OC monitoring system designed to ensure continuous valid and representative readings of OC. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous OC monitoring system must be kept on site and available for inspection during regular office hours.

To convert the output of the OC monitor from parts per million by volume (ppmv) of methane to ppmv of styrene, butadiene, and MEK, appropriate response factors for the OC monitor shall be used. The response factor (RF) is defined as the ratio of the known concentration of the target compound (styrene, butadiene, or MEK) to the observed meter reading when the instrument has been calibrated with the reference compound (methane). The response factor is equal to the true concentration divided by the instrument reading. In order for the RF to be acceptable, it must be determined to be less than 10 before the instrument can be used in the monitoring program. The RF for each combination of reference compound and target compound may be determined by testing or may be obtained from a "reference" source.

3. The permittee shall maintain a leak detection and repair program for pumps, valves and flanges in styrene, butadiene, and acrylonitrile service as indicated below:
  - a. Except as provided in 3.c below, pumps, valves and flanges in styrene, butadiene, and acrylonitrile service shall be inspected for signs of leakage monthly using visual, audible, and/or olfactory methods.
  - b. Except as provided in 3.c below, pumps and valves in styrene, butadiene, and acrylonitrile service shall be monitored for leaks once each six calendar months in accordance with the method specified in OAC rule 3745-21-10 (F).
  - c. Excluded from the above monitoring requirements are any pumps in styrene, butadiene, and acrylonitrile service that are equipped with double mechanical seals. Pumps with double mechanical seals will be inspected for signs of leakage monthly as described in 3.a above. Also, valves that are designated as difficult to inspect or monitor (valves which cannot be monitored without elevating the monitoring personnel more than six feet above a support surface) shall be inspected and monitored once each calendar year.
  - d. Flanges in styrene, butadiene, and acrylonitrile service shall be monitored for leaks once each 12 calendar months in accordance with the method specified in OAC rule 3745-21-10 (F).
  - e. A leak is defined as visible frost (from butadiene pumps, valves or flanges) or drips (from styrene or acrylonitrile pumps, valves, or flanges), a strong, distinctive odor (from the pump seal, valve or flange), or an organic vapor analyzer reading in excess of 10,000 parts per million by volume ("ppmv") for pumps, 5,000 ppmv for valves, and 1,000 ppmv for flanges.

- f. If a leak is discovered, it shall be repaired within 30 calendar days. However, a first attempt at repair shall be made within five calendar days.
  - g. Any pump or valve from which a leak has been detected shall be monitored within five working days of being repaired, using an organic vapor analyzer. A reading below 2,000 ppmv for pumps, 1,000 ppmv for valves, and 500 ppmv for flanges indicates a successful repair.
4. The permittee shall collect and record the following information for each day for the control equipment:
    - a. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and
    - b. all 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.
  5. The permittee shall maintain records of all data obtained by the continuous OC monitoring system including, but not limited to, parts per million OC on an instantaneous (one minute) basis, emissions of OC in units of the applicable standard in the appropriate averaging period (i.e., hourly; rolling, 3-hour average; monthly; and 12-month rolling summation), hourly emissions of butadiene, hourly emissions of styrene, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.
  6. To demonstrate the effectiveness of the leak detection and repair program, the permittee shall maintain the following records:
    - a. A list of identification numbers for all pumps, valves, and flanges in styrene, butadiene, and acrylonitrile service shall be recorded in a log that is kept in a readily accessible location.
    - b. When a leak is detected as described in C.3.e, the following information shall be recorded in the leak repair log:
      - i. The identification number of the leaking equipment.
      - ii. The basis for detection of the leak, for example, monitoring, visual inspection, or sensor.
      - iii. The date on which the leak was detected and the date of each attempt to repair the leaking equipment.
      - iv. The methods of repair applied in each attempt to repair the leaking equipment.

- v. One of the following entries within five working days after each attempt to repair the leaking equipment:
    - (a) "not monitored," denoting the leaking equipment was presumed to still be leaking and it was not monitored; or
    - (b) if the leaking equipment was monitored with a leak detection instrument, the maximum concentration that was measured, in ppmv.
  - vi. If the leak is not repaired within 30 calendar days after the date on which it was detected, record the following:
    - (a) "repair delayed" and the reason for the delay;
    - (b) if the repair is being delayed until the next process shutdown due to technical infeasibility of repair, the signature of the owner or operator whose decision it was that repair is technically infeasible without a process shutdown;
    - (c) the expected date of successful repair of the leak; and
    - (d) the dates of process unit shutdowns that occur while the leaking equipment is unrepaired.
  - vii. The date on which the leak was successfully repaired.
7. The permittee shall maintain monthly records of the total facility emissions of each individual HAP. The permittee also shall maintain monthly records of the rolling, 12-month summation of the total facility emissions of each individual HAP.
8. The permittee shall maintain monthly records of the total facility emissions of all of the HAPs. The permittee also shall maintain monthly records of the rolling, 12-month summation of the total facility emissions of all of the HAPs.
9. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
- a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and
  - b. 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 identify all 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent performance test that demonstrated the emissions unit was in compliance.

2. The permittee shall submit deviation (excursion) reports documenting the date, time, duration, magnitude, reason (if known), and corrective action(s) taken (if any), of all instances of OC values in excess of the hourly, monthly and rolling, 12-month emission limitations, butadiene values in excess of the hourly limitation, and styrene values in excess of the hourly limitation.

The permittee shall submit quarterly reports which include a log of the downtime for the capture (collection) system, control equipment, temperature monitoring device, and emissions monitoring equipment, when the associated emissions unit was in operation (date, time, duration and reason), along with any corrective action(s) taken. The total operating time for the emissions unit and the total operating time of the monitors while the emissions unit was on line shall also be included in the quarterly report.

3. Semiannual reports shall be submitted by the first day of February and August, that include the following information for each month during the preceding semiannual period:
  - a. the number of pumps in styrene, butadiene, and acrylonitrile service for which leaks were detected as described in C.3.e;
  - b. the number of valves in styrene, butadiene, and acrylonitrile service for which leaks were not repaired within 30 calendar days after detection of the leak; and
  - c. the facts that explain the delay of each repair.
4. The permittee shall submit deviation (excursion) reports which identify all exceedances of the monthly limitation for each individual HAP and, beginning after the first 12 calendar months of operation following the issuance of this permit, all exceedances of the rolling, 12-month emission limitation for each individual HAP.
5. The permittee shall submit deviation (excursion) reports which identify all exceedances of the monthly limitation for the total emissions of all of the HAPs and, all exceedances of the rolling, 12-month emission limitation for the total emissions of all of the HAPs.
6. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month emission limitation for styrene.
7. The quarterly deviation (excursion) reports shall be submitted in accordance with Part I - General Terms and Conditions section A.2.
8. The permittee shall submit annual reports which identify the following:
  - a. the total actual emissions of organic compounds from the thermal oxidizer;
  - b. the total actual emissions of each individual HAP from the facility; and
  - c. the total actual emissions of all of the HAPs from the facility.

The reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

**E. Testing Requirements**

1. Monthly styrene emissions from the facility shall be determined in accordance with the methodology specified in the document dated December 31, 1995 and entitled, "Methodology for Determining Monthly Styrene Emissions from the Omnova Facility in Mogadore," prepared by the Ohio EPA and Omnova, and any subsequent modifications that are mutually agreeable to the Ohio EPA, the Akron Regional Air Quality Management District, and Omnova
2. Compliance with the hourly, monthly, and annual emission limitations for organic compounds and the hourly emission limitations for 1,3-butadiene and styrene shall be determined by means of the OC continuous emission monitoring system operated in accordance with 40 CFR Part 60.13 and 40 CFR Part 60, Appendix F requirements. Compliance with the hourly emission limitations for organic compounds, 1,3-butadiene, and styrene shall also be determined in accordance with the emission tests described in E.6 below.
3. To demonstrate compliance with the monthly and annual HAP limitations for 1,3-butadiene, the hourly average concentration of organic compounds from the thermal oxidizer (measured as methane) will be converted to the equivalent concentration of 1,3-butadiene by employing an appropriate response factor (see the procedures in C.2). The resulting concentration of 1,3-butadiene, in parts per million by volume (ppmv), will be multiplied by the hourly average stack gas flow rate. Using the ideal gas law, the hourly mass emissions of 1,3-butadiene will then be calculated. The monthly and annual mass emissions from the thermal oxidizer will be the sum of all the hourly mass emission values for the calendar month and calendar year. Fugitive emissions of 1,3-butadiene will be determined using the EPA Correlation Approach, as described in Section 2.3.3 (Page 2-24) of the reference document, "Protocol for Equipment Leak Emission Estimates" (the protocol), dated November, 1995 (Report No. EPA-453/R-95-017), and monitoring results from the leak detection and repair program detailed in sections C.3 and C.6 of this permit. The thermal oxidizer emissions and fugitive emissions will be summed to obtain the total facility emissions of 1,3-butadiene. Should more accurate emission factors be developed during the current permit cycle, the permittee shall use them, provided the new emission factors are mutually agreeable to the Ohio EPA, the Akron Regional Air Quality Management District, and Omnova
4. To demonstrate compliance with the monthly and annual HAP limitations for all other individual HAPs, except 1,3-butadiene, MEK, and styrene, the monthly and annual potential to emit for each of these other HAPs shall be used and shall be calculated as indicated in the document entitled, "Mogadore Air Emissions Inventory", as submitted to the Akron RAQMD on August 28, 1996 and as amended in April, 1998 (or the latest update to that document).
5. To demonstrate compliance with the monthly and annual limitations for all of the HAPs combined, the mass emissions of each HAP, as described above in (1), (3), and (4), shall be summed to obtain the total facility emissions, except that stack emissions from the thermal oxidizer shall be counted as 1,3-butadiene or MEK or styrene, whichever mass quantity is greatest.

6. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The emission testing shall be conducted every three years (by July 31 of each test year). The stack was originally tested in July 1997, so future testing dates shall be based subsequent to that date;

The emission testing shall be conducted to demonstrate compliance with the 98 percent control efficiency and the allowable mass emission rates for organic compounds, 1,3-butadiene, styrene, and nitrogen oxides. The control efficiency shall be determined in accordance with the test methods and procedures specified in Method 25A, with the results expressed as carbon; and,

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

POLLUTANT	TEST METHOD	LOCATION
Organic compounds	Method 25A	40 CFR Part 60, Appendix A
1,3-butadiene	Method 18	40 CFR Part 60, Appendix A
Styrene	Method 18	40 CFR Part 60, Appendix A
Nitrogen oxides	Method 7E	40 CFR Part 60, Appendix A

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 appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

**F. Miscellaneous Requirements**

1. The following terms and conditions are federally enforceable, pursuant to OAC rule 3745-35-07: A, B, C, D, and E, except for the requirements of OAC rule 3745-31-05(A)(3).
  
2. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: 1-3 butadiene

TLV (mg/m3): 4.4

Maximum Hourly Emission Rate (lbs/hr): 1.41

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 4.726

MAGLC (ug/m3): 104.8

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- 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 specified in the above table;
  
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
  
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and
  
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a “modification” under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.