



State of Ohio Environmental Protection Agency

Street Address:

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P.O. Box 1049  
Columbus, OH 43216-1049

11/16/01

**RE: Proposed Title V Chapter 3745-77 Permit  
04-48-01-0404  
General Motors Corp., Toledo, OH**

Attn: Genevieve Damico AR-18J  
United States Environmental Protection Agency  
Region V  
77 West Jackson Blvd.  
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for General Motors Corp., Toledo, OH, has been created in Ohio EPA's State Air Resources System (STARS) on 11/16/01, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,



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

cc: Toledo Div of Environmental Services  
File, DAPC PMU



State of Ohio Environmental Protection Agency

**PROPOSED TITLE V PERMIT**

Issue Date: 11/16/01	Effective Date: To be entered upon final issuance	Expiration Date: To be entered upon final issuance
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This document constitutes issuance of a Title V permit for Facility ID: 04-48-01-0404 to:  
 General Motors Corp., Toledo, OH  
 348 South Erie Street  
 Toledo, OH 43602-1633

**Emissions Unit ID (Company ID)/Emissions Unit Activity Description**

B001 (Boiler #1) Natural gas and #2 oil fired boiler	B004 (Boiler #4) Natural gas, land fill gas, and #2 oil fired boiler	P901 (Schaefer Furnace #1) Gas fired reverberatory aluminum melting furnace
B002 (Boiler #2) Natural gas and #2 oil fired boiler	F001 (Plant Roadways & Parking Areas) Plant roadways (paved & unpaved) and parking areas.	P902 (Schaefer Furnace #2) Gas fired reverberatory aluminum melting furnace
B003 (Boiler #3) Natural gas, land fill gas, and #2 oil fired boiler	K002 (Maintenance Paint Booth) Maintenance paint spray booth	

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Toledo Div of Environmental Services  
 (419) 936-3015

OHIO ENVIRONMENTAL PROTECTION AGENCY

\_\_\_\_\_  
 Christopher Jones  
 Director

## PART I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Section

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written 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.) See B.8 below if no deviations occurred during the quarter.
  - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to

the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

## **2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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 emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

## **4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

## **5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

## **6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

## **7. 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.

## **8. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

## **9. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

## 10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

## 11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

## 12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
  - ii. Compliance certifications shall include the following:
    - (a) An identification of each term or condition of this permit that is the basis of the certification.
    - (b) The permittee's current compliance status.
    - (c) Whether compliance was continuous or intermittent.
    - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
    - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
  - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

### **13. Permit Shield**

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but

excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

#### **14. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

#### **15. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

#### **16. Off Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

## **17. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

## **18. Insignificant Activity**

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

## **B. State Only Enforceable Section**

### **1. Permit to Install Requirement**

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

### **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. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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.

## **Part II - Specific Facility Terms and Conditions**

### **A. State and Federally Enforcable Section**

**None**

**B. State Only Enforceable Section**

1. The following insignificant emissions units are located at this facility:

F002 - aluminum dross storage;  
G001 - gasoline storage tank;  
P002 - heat treat furnace;  
P007 - electric melt and hold furnaces;  
P008 - thermal deburring;  
P009 - wood shop;  
T002 - #2 fuel oil storage tank;  
Z079 - heat treat furnace;  
Z080 - heat treat furnace;  
Z081 - heat treat furnace;  
Z082 - heat treat furnace;  
Z083 - heat treat furnace;  
Z084 - heat treat furnace;  
Z085 - heat treat furnace;  
Z086 - heat treat furnace;  
Z087 - heat treat furnace;  
Z088 - heat treat furnace;  
Z089 - heat treat furnace;  
Z090 - thermal deburring;  
Z097 - endothermic gas furnace;  
Z098 - endothermic gas furnace;  
Z099 - endothermic gas furnace;  
Z100 - endothermic gas furnace;  
Z101 - endothermic gas furnace;  
Z102 - endothermic gas furnace;  
Z107 - chip storage;  
Z108 - chip salvage;  
Z109 - chip salvage;  
Z115 - storage tank;  
Z117 - storage tank;  
Z120 - storage tank;  
Z121 - storage tank;  
Z122 - storage tank;  
Z123 - storage tank;  
Z124 - storage tank;  
Z125 - storage tank;  
Z126 - storage tank;  
Z127 - storage tank;  
Z128 - storage tank;  
Z129 - storage tank;  
Z130 - storage tank;  
Z131 - storage tank;  
Z132 - storage tank;  
Z133 - storage tank;  
Z134 - storage tank;  
Z135 - storage tank;  
Z136 - storage tank;  
Z137 - storage tank;  
Z139 - storage tank;  
Z142 - storage tank;  
Z143 - storage tank;  
Z144 - storage tank;  
Z145 - storage tank;  
Z146 - storage tank;  
Z147 - storage tank;  
Z148 - storage tank;  
Z150 - gasoline storage tank;

**B. State Only Enforceable Section (continued)**

Z151 - storage tank;  
Z155 - storage tank;  
Z156 - gasoline storage tank;  
Z160 - gasoline dispensing;  
Z167 - dryer;  
Z174 - induction hardening;  
Z175 - induction hardening;  
Z176 - induction hardening;  
Z222 - internal combustion engine;  
Z223 - internal combustion engine;  
Z224 - machining;  
Z225 - machining;  
Z226 - machining; and  
Z227 - machining.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Boiler #1 (B001)

**Activity Description:** Natural gas and #2 oil fired boiler

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
70 mmBtu/hr boiler fired with natural gas and #2 fuel oil	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(Y)	1.0 pound of sulfur dioxide per million Btu of actual heat input when burning #2 fuel oil

##### 2. Additional Terms and Conditions

- 2.a Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

##### II. Operational Restrictions

1. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound of sulfur dioxide per million Btu actual heat input.

##### III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil 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 Toledo Division of Environmental Services.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO<sub>2</sub> emission rate for the oil (in pound/mmBtu).

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons); and
  - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil received.
3. The deviation reports and oil analysis reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

#### **V. Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation:  
  
20% opacity as a 6-minute average  
  
Applicable Compliance Method:  
  
If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
  - 1.b Emission Limitation:  
  
0.020 pound of particulate emissions per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
For natural gas: divide the AP-42 (Table 1.4-2, dated 7/98) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.  
  
For #2 fuel oil: divide the AP-42 (Table 1.3-1, dated 9/98) particulate emission factor of 2 pounds per thousand gallons by the #2 fuel oil higher heating value of 140 mmBtu per thousand gallons.  
  
If required, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-17-03(B)(9).
  - 1.c Emission Limitation:  
  
1.0 pound of sulfur dioxide per million Btu of actual heat input when burning #2 fuel oil  
  
Applicable Compliance Method:  
  
Compliance with this specification shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil, in accordance with OAC rule 3745-18-04(F)(2).  
  
If required, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-18-04(A).

#### **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

## Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Boiler #2 (B002)

**Activity Description:** Natural gas and #2 oil fired boiler

### A. State and Federally Enforceable Section

#### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
70 mmBtu/hr boiler fired with natural gas and #2 fuel oil	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(Y)	1.0 pound of sulfur dioxide per million Btu of actual heat input when burning #2 fuel oil

#### 2. Additional Terms and Conditions

- 2.a Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

#### II. Operational Restrictions

1. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound of sulfur dioxide per million Btu actual heat input.

#### III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil 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 Toledo Division of Environmental Services.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO<sub>2</sub> emission rate for the oil (in pound/mmBtu).

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons); and
  - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil received.
3. The deviation reports and oil analysis reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

#### **V. Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation:  
  
20% opacity as a 6-minute average  
  
Applicable Compliance Method:  
  
If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
  - 1.b Emission Limitation:  
  
0.020 pound of particulate emissions per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
For natural gas: divide the AP-42 (Table 1.4-2, dated 7/98) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.  
  
For #2 fuel oil: divide the AP-42 (Table 1.3-1, dated 9/98) particulate emission factor of 2 pounds per thousand gallons by the #2 fuel oil higher heating value of 140 mmBtu per thousand gallons.  
  
If required, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-17-03(B)(9).
  - 1.c Emission Limitation:  
  
1.0 pound of sulfur dioxide per million Btu of actual heat input when burning #2 fuel oil  
  
Applicable Compliance Method:  
  
Compliance with this specification shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil, in accordance with OAC rule 3745-18-04(F)(2).  
  
If required, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-18-04(A).

#### **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Boiler #3 (B003)

**Activity Description:** Natural gas, land fill gas, and #2 oil fired boiler

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
75.5 mmBtu/hr boiler fired with natural gas, landfill gas, and #2 fuel oil	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(Y)	1.0 pound of sulfur dioxide per million Btu of actual heat input

##### 2. Additional Terms and Conditions

- 2.a Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

##### II. Operational Restrictions

1. The permittee shall burn only natural gas, landfill gas, and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound sulfur dioxide per million Btu actual heat input.
3. The quality of the landfill gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound sulfur dioxide per million Btu of actual heat input.

##### III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, landfill gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil 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 Toledo Division of Environmental Services.

### **III. Monitoring and/or Record Keeping Requirements (continued)**

3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO<sub>2</sub> emission rate for the oil (in pound/mmBtu).
4. The permittee shall collect or require the landfill gas supplier to collect a representative sample of the landfill gas that is received for burning in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform or require the supplier to perform analyses of each landfill gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.
5. The permittee shall maintain records of the total quantity of landfill gas combusted, the permittee's or landfill gas supplier's analyses for sulfur content, heat content, density, and the calculated SO<sub>2</sub> emission rate (in pound/mmBtu).

### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, landfill gas and/or #2 fuel oil was burned in this emissions unit.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons); and
  - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil received.
3. The permittee shall submit, on a quarterly basis, copies of the permittee's or landfill gas supplier's analyses for the landfill gas which is received for burning in this emissions unit. The permittee's or landfill gas supplier's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), density, and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.
4. The deviation reports and fuel analysis reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

### **V. Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

**1.a** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).

## **V. Testing Requirements (continued)**

### **1.b Emission Limitation:**

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

For natural gas: divide the AP-42 (Table 1.4-2, dated 7/98) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil: divide the AP-42 (Table 1-3-1, dated 9/98) particulate emission factor of 2 pounds per thousand gallons by the #2 fuel oil higher heating value of 140 mmBtu per thousand gallons.

For landfill gas, and if required for natural gas and #2 fuel oil; the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-17-03(B)(9).

### **1.c Emission Limitation:**

1.0 pound of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

For natural gas: the exclusive combustion of commercially available natural gas shall be considered adequate demonstration of compliance with this emissions limitation, or divide the AP-42 (Table 1.4-2, dated 7/98) sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil: Compliance with this specification shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil, in accordance with OAC rule 3745-18-04(F)(2).

For landfill gas: Compliance with this specification shall be demonstrated based upon the analytical results provided by the permittee or landfill gas supplier for the landfill gas received for burning in accordance with OAC rule 3745-18-04(F)(3).

If required, for natural gas, #2 fuel oil and landfill gas, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-18-04(A).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Boiler #4 (B004)

**Activity Description:** Natural gas, land fill gas, and #2 oil fired boiler

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
75.5 mmBtu/hr boiler fired with natural gas, landfill gas, and #2 fuel oil	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(Y)	1.0 pound of sulfur dioxide per million Btu of actual heat input

##### 2. Additional Terms and Conditions

- Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

##### II. Operational Restrictions

- The permittee shall burn only natural gas, landfill gas, and/or #2 fuel oil in this emissions unit.
- The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound sulfur dioxide per million Btu actual heat input.
- The quality of the landfill gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound sulfur dioxide per million Btu of actual heat input.

##### III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than natural gas, landfill gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil 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 Toledo Division of Environmental Services.

### III. Monitoring and/or Record Keeping Requirements (continued)

3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO<sub>2</sub> emission rate for the oil (in pound/mmBtu).
4. The permittee shall collect or require the landfill gas supplier to collect a representative sample of the landfill gas that is received for burning in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform or require the supplier to perform analyses of each landfill gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.
5. The permittee shall maintain records of the total quantity of landfill gas combusted, the permittee's or landfill gas supplier's analyses for sulfur content, heat content, density, and the calculated SO<sub>2</sub> emission rate (in pound/mmBtu).

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, landfill gas and/or #2 fuel oil was burned in this emissions unit.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons); and
  - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil received.
3. The permittee shall submit, on a quarterly basis, copies of the permittee's or landfill gas supplier's analyses for the landfill gas which is received for burning in this emissions unit. The permittee's or landfill gas supplier's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), density, and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.
4. The deviation reports and fuel analysis reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

### V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

**1.a** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).

## **V. Testing Requirements (continued)**

### **1.b Emission Limitation:**

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

For natural gas: divide the AP-42 (Table 1.4-2, dated 7/98) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil: divide the AP-42 (Table 1-3-1, dated 9/98) particulate emission factor of 2 pounds per thousand gallons by the #2 fuel oil higher heating value of 140 mmBtu per thousand gallons.

For landfill gas, and if required for natural gas and #2 fuel oil; the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-17-03(B)(9).

### **1.c Emission Limitation:**

1.0 pound of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

For natural gas: the exclusive combustion of commercially available natural gas shall be considered adequate demonstration of compliance with this emissions limitation, or divide the AP-42 (Table 1.4-2, dated 7/98) sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil: Compliance with this specification shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil, in accordance with OAC rule 3745-18-04(F)(2).

For landfill gas: Compliance with this specification shall be demonstrated based upon the analytical results provided by the permittee or landfill gas supplier for the landfill gas received for burning in accordance with OAC rule 3745-18-04(F)(3).

If required, for natural gas, #2 fuel oil and landfill gas, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-18-04(A).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Schaefer Furnace #1 (P901)

**Activity Description:** Gas fired reverberatory aluminum melting furnace

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
14 million Btu, natural gas-fired reverberatory aluminum melting furnace with a wet scrubber on the combustion stack (process emissions) and a charging well with fugitive emissions, partially enclosed and ducted to a wet scrubber (fugitive emissions); 3.5 tons per hour production capacity	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)(3)	See A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	See A.I.2.a below.
	OAC rule 3745-18-06(E)(2)	Sulfur dioxide emissions shall not exceed 69 pounds per hour.
	OAC rule 3745-31-05(A)(3) established in PTI 04-706 as modified November 23, 1999	Visible particulate emissions shall not exceed 3% opacity, as a 6-minute average, from each stack.
		Particulate emissions shall not exceed 2.5 pounds per hour total from the combustion stack scrubber and charging well scrubber combined.
	Particulate emissions shall not exceed 6.9 tons per year from the combustion stack scrubber and charging well scrubber combined.	
	Particulate emissions shall not exceed 0.008 grain/dry standard cubic foot from the charging well scrubber.	

##### 2. Additional Terms and Conditions

- 2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.b The capture system serving the charging well shall minimize or eliminate visible emissions of fugitive dust.

## II. Operational Restrictions

1. The permittee shall operate each wet scrubbing system whenever this emissions unit is in operation, except for short periods of time during which maintenance is performed when the unit is only holding the molten metal at temperature.
2. The permittee shall operate and maintain the reverberatory furnace, its charging well and hoods so as to minimize the possibility of uncontrolled emissions. Hoods shall be constructed so as to minimize warpage due to high temperature and physical damage. All hood doors shall be kept closed except during times when access to the furnace or charging well is required. Should any hoods or doors become damaged, they shall be repaired as soon as possible, but not more than two weeks from the date the hood or door became damaged or warped.
3. The atomizing air pressure for the nozzles for each scrubber shall be continuously maintained at a value of not less than 20 psig at all times while the emissions unit is in operation.

The scrubber water flow rate for each scrubber shall be continuously maintained at a value of not less than 3 gallons per minute at all times while the emissions unit is in operation.

4. The permittee shall burn only natural gas as fuel and shall charge only clean materials in this emissions unit.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to monitor the atomizing air pressure for the nozzles and the scrubber water flow rate for each scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information once each day when the emissions unit is in operation:

- a. the atomizing air pressure for the nozzles for each scrubber, in psig;
  - b. the scrubber water flow rate for each scrubber, in gallons per minute; and
  - c. the downtime for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
2. The permittee shall maintain daily production records that document the metal throughput for this furnace, in tons.
  3. For each day during which the permittee burns a fuel other than natural gas or charges other than clean material, the permittee shall maintain a record of the type and quantity of fuel burned and the type and quantity of unclean material charged in this emissions unit.
  4. The permittee shall maintain a record of each time damaged or warped hoods or doors for the furnace were not repaired within two weeks.

## IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
  - a. the atomizing air pressure for the nozzles for each scrubber; and
  - b. the scrubber water flow rate for each scrubber.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each time damaged or warped hoods or doors for the furnace were not repaired within two weeks.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas was burned and when other than clean materials were charged in this emissions unit.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

## V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation:

20% opacity as a 3-minute average, for fugitive emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance based upon the requirements specified in OAC rule 3745-17-03(B)(3) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.
  - 1.b Emission Limitation:

69 lbs/hr of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(A).
  - 1.c Emission Limitation:

3% opacity as a 6-minute average from each stack

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance based upon the requirements specified in OAC rule 3745-17-03(B)(1) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.
  - 1.d Emission Limitation:

2.5 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.
  - 1.e Emission Limitation:

6.9 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated using an annual summation of the metal throughputs recorded in section A.III.2, multiplied by the particulate emission factor, in tons of particulates per ton of metal processed, determined during the most recent stack test which demonstrated compliance with the hourly emissions limitation for particulates.
  - 1.f Emission Limitation:

0.008 grain of particulate emissions per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

Facility Name: **General Motors Corp., Toledo, OH**

Facility ID: **04-48-01-0404**

Emissions Unit: **Schaefer Furnace #1 (P901)**

## **VI. Miscellaneous Requirements**

1. No chlorination by the injection of chlorine gas shall take place in this emissions unit. This exclusion does not restrict the use of powdered fluxes which may contain chlorine salts.

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Schaefer Furnace #2 (P902)

**Activity Description:** Gas fired reverberatory aluminum melting furnace

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
14 million Btu, natural gas-fired reverberatory aluminum melting furnace with a wet scrubber on the combustion stack (process emissions) and a charging well with fugitive emissions, partially enclosed and ducted to a wet scrubber (fugitive emissions); 3.5 tons per hour production capacity	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)(3)	See A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	See A.I.2.a below.
	OAC rule 3745-18-06(E)(2)	Sulfur dioxide emissions shall not exceed 69 pounds per hour.
	OAC rule 3745-31-05(A)(3) established in PTI 04-889 as modified November 23, 1999	Visible particulate emissions shall not exceed 3% opacity, as a 6-minute average, from each stack.
		Particulate emissions shall not exceed 2.5 pounds per hour total from the combustion stack scrubber and charging well scrubber combined.
	Particulate emissions shall not exceed 6.9 tons per year from the combustion stack scrubber and charging well scrubber combined.	
	Particulate emissions shall not exceed 0.008 grain/dry standard cubic foot from the charging well scrubber.	

##### 2. Additional Terms and Conditions

- 2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.b The capture system serving the charging well shall minimize or eliminate visible emissions of fugitive dust.

## II. Operational Restrictions

1. The permittee shall operate each wet scrubbing system whenever this emissions unit is in operation, except for short periods of time during which maintenance is performed when the unit is only holding the molten metal at temperature.
2. The permittee shall operate and maintain the reverberatory furnace, its charging well and hoods so as to minimize the possibility of uncontrolled emissions. Hoods shall be constructed so as to minimize warpage due to high temperature and physical damage. All hood doors shall be kept closed except during times when access to the furnace or charging well is required. Should any hoods or doors become damaged, they shall be repaired as soon as possible, but not more than two weeks from the date the hood or door became damaged or warped.
3. The atomizing air pressure for the nozzles for each scrubber shall be continuously maintained at a value of not less than 20 psig at all times while the emissions unit is in operation.

The scrubber water flow rate for each scrubber shall be continuously maintained at a value of not less than 3 gallons per minute at all times while the emissions unit is in operation.

4. The permittee shall burn only natural gas as fuel and shall charge only clean materials in this emissions unit.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to monitor the atomizing air pressure for the nozzles and the scrubber water flow rate for each scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information once each day when the emissions unit is in operation:

- a. the atomizing air pressure for the nozzles for each scrubber, in psig;
  - b. the scrubber water flow rate for each scrubber, in gallons per minute; and
  - c. the downtime for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
2. The permittee shall maintain daily production records that document the metal throughput for this furnace, in tons.
  3. For each day during which the permittee burns a fuel other than natural gas or charges other than clean material, the permittee shall maintain a record of the type and quantity of fuel burned and the type and quantity of unclean material charged in this emissions unit.
  4. The permittee shall maintain a record of each time damaged or warped hoods or doors for the furnace were not repaired within two weeks.

## IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
  - a. the atomizing air pressure for the nozzles for each scrubber; and
  - b. the scrubber water flow rate for each scrubber.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each time damaged or warped hoods or doors for the furnace were not repaired within two weeks.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas was burned and when other than clean materials were charged in this emissions unit.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

## V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation:

20% opacity as a 3-minute average, for fugitive emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance based upon the requirements specified in OAC rule 3745-17-03(B)(3) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.
  - 1.b Emission Limitation:

69 lbs/hr of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(A).
  - 1.c Emission Limitation:

3% opacity as a 6-minute average from each stack

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance based upon the requirements specified in OAC rule 3745-17-03(B)(1) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.
  - 1.d Emission Limitation:

2.5 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.
  - 1.e Emission Limitation:

6.9 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated using an annual summation of the metal throughputs recorded in section A.III.2, multiplied by the particulate emission factor, in tons of particulates per ton of metal processed, determined during the most recent stack test which demonstrated compliance with the hourly emissions limitation for particulates.
  - 1.f Emission Limitation:

0.008 grain of particulate emissions per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

Facility Name: **General Motors Corp., Toledo, OH**

Facility ID: **04-48-01-0404**

Emissions Unit: **Schaefer Furnace #2 (P902)**

## **VI. Miscellaneous Requirements**

1. No chlorination by the injection of chlorine gas shall take place in this emissions unit. This exclusion does not restrict the use of powdered fluxes which may contain chlorine salts.

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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