



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov.
Center

RE: **FINAL PERMIT TO INSTALL MODIFICATION** **CERTIFIED MAIL**
LUCAS COUNTY
Application No: 04-00889
Fac ID: 0448010404

DATE: 1/17/2006

General Motors Corp/ Powertrain Div.
Laura Bartling
P.O. Box 909 1455 West Alexis Rd.
Toledo, OH 43697-0909

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

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

TDES



**Permit To Install
Terms and Conditions**

**Issue Date: 1/17/2006
Effective Date: 1/17/2006**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 04-00889

Application Number: **04-00889**
APS Premise Number: **0448010404**
Permit Fee: **\$300**
Name of Facility: **General Motors Corp/ Powertrain Div.**
Person to Contact: **Laura Bartling**
Address: **P.O. Box 909 1455 West Alexis Rd.
Toledo, OH 43697-0909**

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1455 W. Alexis Rd.
Toledo, OHIO**

Description of modification:
Modification of terms and conditions to allow aluminum furnace P902 to idle without controls.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

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GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

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

CONSTRUCTION OF NEW SOURCES

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

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

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PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

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

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION AND OPERATION AFTER COMPLETION OF CONSTRUCTION

If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 ninety (90) days after commencing operation of the source(s) covered by this permit.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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AIR EMISSION SUMMARY

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

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	
				3745-17-07 (B)(1)
				3745-17-08 (B)(3)
P902	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	*	3745-31-05 (A)(3)	
				3745-17-07 (A)(1)
				3745-17-11 (B)(1)
				3745-18-06 (E)

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Permit Allowabl e Mass Emission s and/or Control/ Usage <u>Require ments</u>	combustion stack scrubber and charging well scrubber combined. 0.008 grain PM/dry standard cubic foot from the charging well scrubber.
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20 percent opacity, as a 6-minute average, from each stack.	69 lbs SO ₂ /hr ** ** **
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2.5
lbs/hr
PM total
from the
combusti
on stack
scrubber
and
charging
well
scrubber
combine
d.

6.9
tons/yr
PM total
from the

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BAT for the furnace is a wet scrubber or equivalent. BAT for the charging well fugitive emissions shall be the use of hoods, fans, etc. to adequately capture and control fugitive emissions to the extent possible with good engineering design. The emissions shall be vented to a control device with an outlet emission rate of not more than 0.008 grains of particulate per standard cubic foot of exhaust gas and visible emissions not to exceed 20 percent opacity.

** These applicable rules are equivalent to or less restrictive than the BAT determination as set forth in 3745-31-05 (A) (3).

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	6.9
SO2	negligible

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Toledo Environmental Services Division. 348 South Erie, Toledo Ohio 43602.**

WASTE DISPOSAL

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

MAINTENANCE OF EQUIPMENT

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

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MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Toledo Environmental Services Division, 348 South Erie, Toledo Ohio 43602.**

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

AIR POLLUTION NUISANCES PROHIBITED

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

CONSTRUCTION COMPLIANCE CERTIFICATION

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

GM Powertrain shall operate and maintain the reverberatory furnace and its charging well and hoods so as to minimized 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.

- The permittee shall operate and maintain the combustion stack scrubber when fluxing occurs in this emissions unit.
- The permittee shall operate the charge well scrubber whenever melting charge material in this emissions unit.
- The atomizing air pressure for the nozzles for the combustion stack scrubber shall be continuously maintained at a value no less than 20 psig at all times while fluxing.
- The scrubber water flow rate for the combustion stack scrubber shall be continuously maintained at a

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value of no less than 3 gallons per minute at all times while fluxing.

- The atomizing air pressure for the nozzles for the charge well scrubber shall be continuously maintained at a value of not less than 20 psig at all times while melting charge material

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- The scrubber water flow rate for the charge well scrubber shall be continuously maintained at a value of not less than 3 gallons per minute at all times while melting charge material.
- GM Powertrain shall keep production records listing the metal throughput for this furnace. These records shall be maintained for a minimum of two years and shall be made available to the Toledo Environmental Services Division of the Ohio EPA upon request.
- The permittee shall burn only natural gas and shall charge only clean charge, customer returns or internal scrap as defined in 40 CFR 63.1503 in this emissions unit.
- The permittee shall properly 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, with any modifications deemed necessary or appropriate by the permittee.
- The permittee shall maintain a record of each time the atomizing air pressure for the nozzles or the scrubber water flow rate was not maintained at or above the values specified for the combustion stack scrubber while fluxing or for the charge well scrubber while melting.
- The permittee shall record the atomizing air pressure, in psig, and the scrubber water flow rate, in gallons per minute, for the combustion stack scrubber once each fluxing period in the event of down time of the monitoring equipment.
- For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- The permittee shall record the atomizing air pressure, in psig, and the scrubber flow rate, in gallons per minute, one each day which melting occurs in this emissions unit, in the event of downtime of the monitoring equipment for the charge well scrubber.
- For each day during which the permittee charges other than clean charge, customer returns or internal scrap, the permittee shall maintain a record of the type and quantity of material charged in the emissions unit.
- The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which fluxing occurred in this emissions unit without the corresponding operation of the combustion stack scrubber and all periods of time during which melting occurred in this emissions unit without the corresponding operation of the charge well scrubber.

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· 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.

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- 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 charge, customer returns or internal scrap were charged in this emissions unit