

Facility Name: **DaimlerChrysler Corporation-Toledo Machining**

Application Number: **03-3126**

Date: **Draft PTI (Date will be entered upon final issuance)**

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

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an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

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

PUBLIC DISCLOSURE

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

APPLICABILITY

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

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BEST AVAILABLE TECHNOLOGY

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

PERMIT TO OPERATE APPLICATION

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

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

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

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

The air contaminant emissions units listed below comprise the Permit to Install for **DaimlerChrysler Corporation-Toledo Machining** located in **Wood** 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>
B017	100 MM BTU/hour natural gas-fired boiler (with propane as backup)
B017 cont'd	

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

Use of natural
gas/propane as
fuel, use of
low-NO_x
burners
and compliance
with the terms
and conditions
of this permit

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
		40 CFR Part 60, Subpart Dc		There are no applicable emission limitations established under this rule for units that only combust natural gas/propane
	Applicable Federal & OAC Rules			
3745-31-05			0.8 pound PE/hour, 3.5 tons PE/year	*
	3745-17-10 (B)		0.06 pound SO ₂ /hour, 0.3 ton SO ₂ /year	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	3745-17-07 (A)		21.0 pounds NO _x /hour, 58.1 tons NO _x /year (combined limitation from all natural gas/propane-fired units at the facility - refer to Additional Special Terms and Conditions)	
			8.4 pounds CO/hour, 36.8 tons CO/year	
			1.1 pounds OC/hour, 4.8 ton OC/year	

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- * The PE limitation based on this applicable rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05.

SUMMARY
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PE	3.5
SO ₂	0.3
NO _x	58.1
CO	36.8
OC	4.8

Note: The tons/year limitations established in this permit are based on the worst-case hourly emission rates at 8760 hours/year dependant upon the type of fuel employed (i.e., natural gas or propane), with the exception of NO_x.

NSPS REQUIREMENTS

The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
B017	100 MMBTU/HR, No Boiler	DC

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The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, OH 43216-3669

and **Ohio EPA Northwest District Office**
347 North Dunbridge Road
Bowling Green, Ohio 43402

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA Northwest District Office, 347 North Dunbridge Road, Bowling Green, Ohio 43402.**

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.

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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.

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 **Ohio EPA Northwest District Office, 347 North Dunbridge Road, Bowling Green, Ohio 43402.**

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

INTRODUCTION: The permittee had previously voluntarily reduced the facility's potential nitrogen oxide (NO_x) emission rate by accepting a federally enforceable limitation on all of the natural gas-fired and propane-fired emissions units located at this facility. This was done through PTI No. 03-10228. The permittee's strategy was to avoid becoming a major facility in terms of Title V: by accepting an emission limitation on NO_x emissions the permittee was ensuring that the potential to emit NO_x would remain below the Title V significance level of 100 tons of NO_x/year.

The purpose of PTI #03-13126 is to allow the permittee to replace

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2 boilers (B007 and B008) with a 100 million BTU/hour natural gas-fired (propane as backup) boiler, emissions unit B017. The installation of this new boiler, with the removal of units B007 and B008, will not increase the facility's current federally enforceable NO_x emission limitation of 58.1 tons/year.

A. APPLICABLE EMISSION LIMITATIONS AND/OR CONTROL REQUIREMENTS

1. The emissions of NO_x from emissions units B005, B009, B010, B011, B012, B015, B017, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P043, P044 and the following exempt equipment: door heater #9, door heater #10, water heater Ad. Bldg., water heater Ad. Bldg., water heater N.B. locker room, water heater in Security, preheat oven 9-1/2", washer 9-1/2", brazing furnace 1999 MY, gas generator 1999 MY, brazing furnace 2002 MY, gas generator 2002 MY, preheat oven 45RFE, washer 45RFE, spring retainer oven/quench and piston oven/quench, shall not exceed 58.1 tons/year, based upon a rolling, 12-month summation of the monthly emissions.

B. OPERATIONAL RESTRICTIONS

1. The NO_x emissions for each calendar month shall be calculated in accordance with the following equation:

$$[(0.00014X) + (0.019Y)]/2000 = Z$$

where:

X= the amount of natural gas combusted during the month in all of the above-mentioned sources, in million cubic feet;

Y= the amount of propane combusted during the month in all of the above-mentioned sources, in thousand gallons; and,

Z= NO_x emissions, in tons, for the month.

The calculated NO_x emission rate for each month shall be added to the calculated emissions from the previous month(s) to determine the cumulative total for that month.

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2. Compliance with the annual NO_x emission limitation of 58.1 tons shall be based upon a rolling, 12-month summation.
3. The permittee shall burn only natural gas (or LPG) in this emissions unit.
4. The permittee shall shut down emissions units B007 and B008 upon startup of emissions unit B017.

C. MONITORING AND/OR RECORDKEEPING REQUIREMENTS

1. The permittee shall maintain monthly records of the following information for emissions units B005, B009, B010, B011, B012, B015, B017, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P043, P044 and the following exempt equipment: door heater #9, door heater #10, water heater Ad. Bldg., water heater Ad. Bldg., water heater N.B. locker room, water heater in Security, preheat oven 9-1/2", washer 9-1/2", brazing furnace 1999 MY, gas generator 1999 MY, brazing furnace 2002 MY, gas generator 2002 MY, preheat oven 45RFE and washer 45RFE:
 - a. the quantity of natural gas combusted;
 - b. the quantity of propane combusted;
 - c. the calculated NO_x emission rate for the month (refer to section B.1 of the Additional Special Terms and Conditions of this permit;
 - d. the cumulative NO_x emission rate for the month; and,
 - e. the rolling, 12-month summation of the monthly NO_x emissions.

In addition, the permittee shall maintain records of the annual PE, SO₂, NO_x, CO and OC emission rates in order to complete the Fee Emission Report.

2. For each day during which the permittee burns a fuel

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other than natural gas/propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

3. The permittee shall record and maintain records of the amounts of each fuel combusted during each day.
4. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. REPORTING REQUIREMENTS

1. The permittee shall submit semi-annual reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken.
If

no deviations occurred during the reporting period, a report shall be submitted which states that no deviations occurred during that reporting period. The reports shall be submitted by January 15 and July 15 of each year and shall cover the previous 6-month reporting period.

Reports of any required information shall be submitted to the Ohio EPA Northwest District Office.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the

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deviation occurs.

3. The permittee shall submit a report identifying the date(s) that emissions units B007 and B008 were permanently shutdown.

E. TESTING REQUIREMENTS/COMPLIANCE METHODS DETERMINATION

1. Compliance Methods Requirements: Compliance with the emission limitation(s) established in this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation: 0.8 pound PE/hour, 3.5 tons PE/year

Applicable Compliance Method: The hourly and annual PE limitations represent the emissions unit's potential to emit based on a maximum natural gas (worst-case emission rate) combustion rate of 100,000 cubic feet/hour and the appropriate AP-42 emission factor from Table 1.4-2 (revised 3/98). Therefore, no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limitations. The annual limitation is based on the hourly at 8760 hours/year.

- b. Emission Limitation: 0.06 pound SO₂/hour, 0.3 ton SO₂/year

Applicable Compliance Method: The hourly and annual SO₂ emission limitations represent the emissions unit's potential to emit based on a maximum natural gas (worst-case emission rate) combustion rate of 100,000 cubic feet/hour and the appropriate AP-42 emission factor from Table 1.4-2 (revised 3/98). Therefore, no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate

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compliance with these limitations. The annual limitation is based on the hourly at 8760 hours/year.

- c. Emission Limitation: 21.0 pounds NO_x/hour

Applicable Compliance Method: The hourly NO_x emission limitation represents the emissions unit's potential to emit based on a maximum propane (worst case emission rate) combustion rate of 1105 gallons/hour and the appropriate AP-42 emission factor from Table 1.5-1 (revised 10/96). Therefore, no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limitations.

- d. Emission Limitation: 8.4 pounds CO/hour, 36.8 tons CO/year

Applicable Compliance Method: The hourly and annual CO emission limitations represent the emissions unit's potential to emit based on a maximum natural gas (worst case emission rate) combustion rate of 100,000 cubic feet/hour and the appropriate AP-42 emission factor from Table 1.4-1 (revised 3/98). Therefore, no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limitations. The annual limitation is based on the hourly at 8760 hours/year.

- e. Emission Limitation: 1.1 pounds OC/hour, 4.8 tons OC/year

Applicable Compliance Method: The hourly and annual OC emission limitations represent the emissions unit's potential to emit based on a maximum natural gas (worst case emission rate) combustion rate of 100,000 cubic feet/hour and the appropriate AP-42 emission factor from Table 1.4-2

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(revised 3/98). Therefore, no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limitations. The annual limitation is based on the hourly at 8760 hours/year.

- f. Emission Limitation: 58.1 tons NO_x/rolling 12-month period from emissions units B005, B009, B010, B011, B012, B015, B017, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P043, P044 and the following exempt equipment: door heater #9, door heater #10, water heater Ad. Bldg., water heater Ad. Bldg., water heater N.B. locker room, water heater in Security, preheat oven 9-1/2", washer 9-1/2", brazing furnace 1999 MY, gas generator 1999 MY, brazing furnace 2002 MY, gas generator 2002 MY, preheat oven 45RFE, washer 45RFE, spring retainer oven/quench and piston oven/quench.

Applicable Compliance Method: The permittee shall demonstrate compliance with the annual NO_x emission limitation of 58.1 tons through the record keeping and reporting requirements established in sections C.1 and D.1 of the Additional Special Terms and Conditions of this permit.

- g. Emission Limitation: visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule

Applicable Compliance Method: OAC rule 3745-17-03(B)(1). The permittee shall monitor compliance with this visible emission limitation through the

operational restriction, monitoring/recordkeeping and reporting requirements in sections B.3, C.2 and D.2 of the Additional Special Terms and Conditions of this permit.

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F. MISCELLANEOUS REQUIREMENTS

1. The terms and conditions of this permit shall supersede all of the air pollution control requirements contained in Permit to Install (PTI) application number 03-10228 which was issued on April 23, 1997.