



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: June 01, 2005
RE: NC-M Chassis Systems, Inc / 065-20314-00001
FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER.dot 1/10/05



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MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

**NC-M Chassis Systems, LLC
1817 I Avenue
New Castle, Indiana 47362**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 065-20314-00001	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: June 01, 2005 Expiration Date: June 01, 2010

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary automotive parts manufacturing source.

Authorized Individual:	Plant Manager
Source Address:	1817 "I" Avenue, New Castle, Indiana 47362
Mailing Address:	1817 "I" Avenue, New Castle, Indiana 47362
General Source Phone:	(765) 521-1655
SIC Code:	3714
County Location:	Henry
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Minor Source, under PSD

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (a) Two (2) natural gas fired boilers, identified as B-1 and B-3, installed in 1999, exhausting to Stack B1, capacity: 36 million British thermal units per hour, each.
- (b) One (1) lime silo, identified as N-46, associated with the onsite WWTP, installed before 1980, capacity: 49.3 pounds of lime per hour.
- (c) Seventy seven (77) wet type machining operations, identified as N-16, installed in 2001, controlled by mist eliminators, capacity: 153 pounds per hour of automotive parts.
- (d) One (1) parts marking, identified as N-30, installed before 1980, capacity: 0.044 pounds per hour of paint delivered through a marker.
- (e) Two (2) natural gas fired space heaters, identified as N-27cc and N-27dd, installed before 1980, capacity: 1.90 million British thermal units per hour, each.
- (f) Two (2) natural gas fired space heaters, identified as N-27ee and N-27ff, installed before 1980, capacity: 0.90 million British thermal units, each.
- (g) Twelve (12) natural gas fired air make-up units, identified as AM1-AM12, installed before 1980, capacity: 8.15 million British thermal units, total.
- (h) One (1) natural gas fired air make-up unit, identified as AM13, installed before 1980, capacity: 4.0 million British thermal units.

SECTION B GENERAL CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to operate does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Permit Term and Renewal [326 IAC 2-6.1-7(a)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

B.5 Modification to Permit [326 IAC 2]

All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue
Indianapolis, IN 46204

- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

B.7 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.8 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204
- Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.
- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.

B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2]
[IC13-17-3-2] [IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.10 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)]:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

B.11 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.12 Credible Evidence [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than one hundred (100) pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of

326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements

C.6 Performance Testing [326 IAC 3-6]

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.7 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

Compliance Monitoring Requirements

C.8 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

Record Keeping and Reporting Requirements

C.9 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.10 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

C.11 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Entire Source

- (a) Two (2) natural gas fired boilers, identified as B-1 and B-3, installed in 1999, exhausting to Stack B1, capacity: 36 million British thermal units per hour, each.
- (c) Seventy seven (77) wet type machining operations, identified as N-16, installed in 2001, controlled by mist eliminators, capacity: 153 pounds per hour of automotive parts.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 Particulate [326 IAC 6-2-4(a)]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from the two (2) 36 million British thermal units per hour natural gas fired boilers (B-1 and B-3) shall be limited to 0.359 pounds per million British thermal units heat input. The emission limitations are based on the following equation given in 326 IAC 6-2-4:

$$Pt = 1.09/Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the wet type machining operations, identified as N-16, shall not exceed 0.736 pounds per hour when operating at a process weight rate of 0.077 tons per hour. The pound per hour limitation was calculated using the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour;
and P = process weight rate in tons per hour

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.1.4 Natural Gas

In order to demonstrate compliance with Condition D.1.1, the two (2) boilers, identified as B-1 and B-3, shall burn only natural gas.

D.1.5 Particulate Control

In order to comply with Condition D.1.2, the mist eliminators, used for particulate control, shall be in operation and control emissions from the wet type machining operations, identified as N-16, at all times that the wet type machining operations are in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no compliance monitoring requirements applicable to this source.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.6 Record Keeping Requirements [326 IAC 12], [40 CFR 60.40 Subpart (Dc)]

- (a) The two (2) boilers, B-1 and B-3, are subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40 Subpart (Dc)).
- (1) Pursuant to 40 CFR 60.48c (g), the Permittee of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.
 - (2) Pursuant to 40 CFR 60.48c (i), all records required under this section shall be maintained by the Permittee of the affected facilities for a period of two (2) years following the date of such record.
- (b) To document compliance with Condition D.1.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	NC-M Chassis Systems, LLC
Address:	1817 I Avenue
City:	New Castle
Phone #:	(765)-521-1655
MSOP #:	065-20314-0001

I hereby certify that NC-M Chassis Systems, LLC is

- still in operation.
 no longer in operation.

I hereby certify that NC-M Chassis Systems, LLC is

- in compliance with the requirements of MSOP **065-20314-0001**.
 not in compliance with the requirements of MSOP **065-20314-0001**.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-5967**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERM LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF >MALFUNCTION= AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for a Minor Source Operating Permit

Source Name: NC-M Chassis Systems, LLC
Source Location: 1817 "I" Avenue, New Castle, Indiana 47362
County: Henry
Construction Permit No.: MSOP 065-20314-00001
SIC Code: 3714
Permit Reviewer: Brian J. Pedersen

On April 21, 2005, the Office of Air Quality (OAQ) had a notice published in the Courier Times, New Castle, Indiana, stating that NC-M Chassis Systems, LLC had applied for an operating permit to operate an automotive parts manufacturing source with mist eliminators for particulate control. The notice also stated that OAQ proposed to issue a permit for this installation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On April 28, 2005, Tom Klotz of Vision Environmental, Inc. submitted comments on the proposed construction operating permit. The summary of the comments and corresponding responses are as follows: The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded**.

Comment 1:

Concerning the CO emission factor for small non-boiler natural gas-fired units (e.g., space heaters), I have attached a printout from the USEPA's Factor Information Retrieval (FIRE) data system. The FIRE data system contains the USEPA's recommended emission factors for criteria air pollutants (in addition to USEPA Publication AP-42). However, FIRE provides a more representative emission factor for small non-boiler natural gas-fired combustion units (e.g., space heaters) than AP-42.

In order to ensure that the factors in the MSOP are consistent with the USEPA's recommended emission factors, NC-M Chassis Systems would like to amend the CO emission factor based upon SCC 1-05-001-06 which applies to industrial natural gas-fired space heaters. It should be noted that the CO emission factor for commercial natural-gas fired space heaters (SCC 1-05-001-06) is the same as the industrial emission factor. Therefore, we request that Appendix A of the Technical Support Document (TSD) Page 3 of 5 be revised from 84.0 lb/MMcf to 20.0 lb/MMcf. This will also result in a lower facility-wide potential-to-emit (PTE) for CO provided in the TSD tables.

Response 1:

IDEM, OAQ has used an accepted emission factor of 84.0 lb/MMcf for Carbon Monoxide. This emission factor is from AP-42 Chapter 1.4, Table 1.4-1 and is the accepted value that IDEM, OAQ uses for space heaters. Although the FIRE database does have an emission factor of 20.0lb/MMcf for natural gas fired space heaters the emission factor quality has been labeled "U". This means that the emission factor is developed from source tests which have not been thoroughly evaluated, research papers, modeling data, or other sources that may lack supporting documentation. The data is not necessarily "poor," but there is not enough information to rate the factors according to the rating protocol. Therefore, IDEM OAQ shall use the emission factor from AP-42, which has an above average emission factor rating. There are no changes made to the proposed permit due to this comment.

**Indiana Department of Environmental Management
Office of Air Quality**

Technical Support Document (TSD) for a Minor Source Operating Permit

Source Background and Description

Source Name:	NC-M Chassis Systems, LLC
Source Location:	1817 I Avenue, New Castle, Indiana 47362
County:	Henry
SIC Code:	3714
Operation Permit No.:	M 065-20314-00001
Permit Reviewer:	Brian J. Pedersen

The Office of Air Quality (OAQ) has reviewed an application from NC-M Chassis Systems, LLC relating to the operation of an automotive parts manufacturing source.

History

This source has been operating under FESOP 065-14159-00001 that was issued on December 26, 2002.

The IDEM, OAQ received an application from NC-M Chassis Systems, LLC on October 26, 2002. The application demonstrated several process changes that have occurred at NC-M Chassis Systems, LLC. Most of the significant permitted pieces of equipment, except two (2) natural gas fired boilers, have been eliminated. Although these boilers were listed in the FESOP as having the ability to burn # 2 fuel oil, NC-M Chassis Systems, LLC has learned that a major conversion of these units would be required to burn this fuel. Thus, as is, the boilers can only burn natural gas. Based on the new emission data, NC-M Chassis Systems, LLC, will transition from the FESOP to a MSOP.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) Two (2) natural gas fired boilers, identified as B-1 and B-3, installed in 1999, exhausting to Stack B1, capacity: 36 million British thermal units per hour, each.
- (b) One (1) lime silo, identified as N-46, associated with the onsite WWTP, installed before 1980, capacity: 49.3 pounds of lime per hour.
- (c) Seventy seven (77) wet type machining operations, identified as N-16, installed in 2001, controlled by mist eliminators, capacity: 153 pounds per hour of automotive parts.
- (d) One (1) parts marking, identified as N-30, installed before 1980, capacity: 0.044 pounds per hour of paint delivered through a marker.
- (e) Two (2) natural gas fired space heaters, identified as N-27cc and N-27dd, installed before 1980, capacity: 1.90 million British thermal units per hour, each.
- (f) Two (2) natural gas fired space heaters, identified as N-27ee and N-27ff, installed before 1980, capacity: 0.90 million British thermal units, each.
- (g) Twelve (12) natural gas fired air make-up units, identified as AM1-AM12, installed before 1980, capacity: 8.15 million British thermal units, total.
- (h) One (1) natural gas fired air make-up unit, identified as AM13, installed before 1980, capacity: 4.0 million British thermal units.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) FESOP Administrative Amendment 065-18416-00001 issued on February 13, 2004;
- (b) FESOP Administrative Amendment 065-17161-00001 issued on February 14, 2003; and
- (c) FESOP Administrative Amendment 065-14159-00001 issued on December 26, 2002.

All conditions from previous approvals were incorporated into this permit except the following:

All FESOP conditions.

Reason not incorporated: Most of the equipment that was present during the FESOP is no longer in operation anymore. The source will now transition to a MSOP; therefore, the FESOP limits are no longer applicable.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on October 26, 2004.

Emission Calculations

See pages 1 – 5 of Appendix A of this document for detailed emission calculations for the combustion units and HAP emissions.

The potential to emit before controls for the lime silo (N-46) are as follows:

- (a) From AP-42 Table 11.17-4, the emission factor for this operation is 0.610 pounds of PM/PM₁₀ per ton. The potential throughput for this operation is 216 tons of lime per year (based on 49.3 lbs lime/hour * 8760 hours/year). Therefore the potential to emit, before controls, of PM/PM₁₀, from this operation is:

$(216 \text{ tons per year}) * (0.610 \text{ pounds per ton}) * (1 \text{ ton} / 2000 \text{ pounds}) = 0.066 \text{ tons per year of PM/PM}_{10}$.

$(0.066 \text{ tons per year of PM/PM}_{10}) * (1 \text{ year} / 8760 \text{ hours}) * (2000 \text{ pounds} / 1 \text{ ton}) = 0.015$
pounds per hour of PM/PM₁₀

- (b) The potential to emit before controls for the wet type machining operations (N-16) are as follows:

From engineering calculations, located in the DaimlerChrysler Emission Factor Manual, the emission factor for this type of operation is 1.75 pounds of PM/PM₁₀ per pound of metal processed. A default oil mist emission factor of 3.5% of cutting fluids/oil on an annual basis is utilized. As the oil mist is not collected by a hood/ventilation system, 50% is estimated to settle out and not be released, and an emission factor of 1.75% is utilized. The potential throughput of this operation is 1,341,349 pounds of cutting oil per year (based on 8760 hours per year). Therefore the potential to emit, before controls, of PM/PM₁₀, from this operation is:

$(1,341,349 \text{ pounds per year}) * (0.0175) * (1 \text{ ton} / 2000 \text{ pounds}) = 11.74 \text{ tons of PM/PM}_{10}$
per year.

$(11.74 \text{ tons per year of PM/PM}_{10}) * (1 \text{ year} / 8760 \text{ hours}) * (2000 \text{ pounds} / 1 \text{ ton}) = 2.68$
pounds per hour of PM/PM₁₀ before controls.

After controls:

$(11.74 \text{ tons per year}) * (1 - 0.90) = 1.17 \text{ tons of PM/PM}_{10}$ per year.

$(1.17 \text{ tons of PM/PM}_{10} \text{ per year}) * (2000 \text{ pounds} / 1 \text{ ton}) (1 \text{ year} / 8760 \text{ hours}) = 0.267$
pounds per hour.

- (c) The potential to emit before controls for the parts marking (N-30) operation are as follows:

For a worst case scenario assume that N-30 is 100% VOC. The capacity of this unit is 382 pounds of paint per year. Therefore the potential to emit of VOC from this operation is:

$(382 \text{ pounds per year}) * (1 \text{ ton} / 2000 \text{ pounds}) * (1.00) = 0.191 \text{ tons of VOC per year.}$

Potential to Emit of the Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential to Emit (tons/yr)
PM	13.3
PM ₁₀	17.8

Pollutant	Potential to Emit (tons/yr)
SO ₂	0.471
VOC	4.52
CO	66.0
NO _x	78.5

HAPs	Potential to Emit (tons/yr)
Xylene	0.108
Formaldehyde	0.060
Acrylic Acid	0.111
Methanol	0.011
Nickel	0.002
Cobalt	0.071
Benzene	0.002
Dichlorobenzene	0.001
Hexane	1.41
Toluene	0.003
Lead	0.0004
Cadmium	0.001
Chromium	0.001
MIK	0.010
Hydrochloric Acid	0.332
Manganese	0.0003
Total	2.12

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of each criteria pollutants is less than one hundred (100) tons per year and the potential to emit of NO_x and CO are each greater than twenty five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of the combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.
- (c) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Stand-

ards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

County Attainment Status

The source is located in Henry County.

Pollutant	Status
PM ₁₀	Attainment
SO ₂	Attainment
NO ₂	Attainment
1-Hour Ozone	Attainment
8-Hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Henry County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (b) Henry County has been classified as attainment or unclassifiable in Indiana for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	2.73
PM ₁₀	7.21
SO ₂	0.471
VOC	4.52
CO	66.0
NO _x	78.5
Single HAP (Hexane)	1.41

Pollutant	Emissions (tons/yr)
Combination HAPs	2.12

This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of two-hundred fifty (250) tons per year or greater and it is not in one of the twenty-eight (28) listed source categories.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit MSOP 065-20314-00001, is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than one-hundred (100) tons per year,
- (b) a single hazardous air pollutant (HAP) is less than ten (10) tons per year, and
- (c) the combination of HAPs is less than twenty-five (25) tons per year.

This status is based on the information in this MSOP application and the calculations that were made.

Federal Rule Applicability

- (a) The two (2) boilers, B1 and B3, are subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40 Subpart (Dc)).

Pursuant to 40 CFR 60.48c (g), the Permittee of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

Pursuant to 40 CFR 60.48c (i), all records required under this section shall be maintained by the Permittee of the affected facility for a period of two (2) years following the date of such record.

The two (2) boilers are not subject to all of the rules and requirements of New Source Performance Standard, 326 IAC 12, (40 CFR 60.40 Subpart (Dc)) because the boilers can only burn natural gas.

- (b) The two (2) boilers, B1 and B3, are not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), 326 IAC 20 and 40 CFR 63 Subpart (DDDDD) Industrial, Commercial, and Institutional Boilers and Process Heaters, because the source is not a major source of HAPs and therefore does not have to comply with the requirements of this rule.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

The unrestricted potential emissions of each attainment criteria pollutant are less than two hundred-fifty (250) tons per year. Therefore, this source, which is not one of the twenty-eight (28) listed source categories, is a minor source pursuant to 326 IAC 2-2, PSD.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of an automotive parts manufacturing source will emit less than ten (10) tons per year of a single HAP or twenty five (25) tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is not located in Lake or Porter County with the potential to emit greater than twenty-five (25) tons per year of NO_x, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability – Individual Facilities

326 IAC 6-2-4 (Particulate Emissions Limitations for Facilities Constructed after September 21, 1983)

The two (2) boilers, identified as B-1 and B-3, installed in 1999, each with a heat input capacity of thirty six (36) million British thermal units per hour, must comply with the requirements of 326 IAC 6-2-4. The emission limitations are based on the following equation given in 326 IAC 6-2-4:

$$Pt = 1.09/Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

For the two (2) boilers:

$$Pt = 1.09 / (72)^{0.26} = 0.359 \text{ lb/MMBtu heat input}$$

Based on Appendix A, the worst-case potential to emit of PM from the two (2) boilers, is 0.599 tons per year.

$$0.599 \text{ ton/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.137 \text{ lb/hr}$$
$$(0.137 \text{ lb/hr} / 72 \text{ MMBtu/hr}) = 0.002 \text{ lb PM per MMBtu}$$

Therefore, the two (2) boilers, identified as B-1 and B-3, will comply with this rule.

There are no other indirect heating facilities at this source.

326 IAC 6-3-2(e) (Particulate Emission Limitations for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the wet type machining operations, identified as N-16, shall not exceed 0.736 pounds per hour when operating at a process weight rate of 0.077 tons per hour.

The particulate from the wet type machining operations, identified as N-16, shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and}$$
$$P = \text{process weight rate in tons per hour}$$

According to the calculations above, the PM emissions from the wet type machining operations after controlled by the mist eliminators are 0.267 pounds per hour. Therefore, the wet type machining operations will comply with this rule and the mist collectors must be in operation at all times when the wet type machining operations are in operation to be in compliance with 326 IAC 6-3-2.

- (b) The lime silo (N-46) has potential emissions less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the requirements of this rule does not apply.
- (c) The parts marking (N-30) does not have potential particulate emissions because it is applied manually and has a transfer efficiency of one hundred (100) percent. Pursuant to 326 IAC 6-3-1(b)(8) the requirements of 326 IAC 6-3-2 do not apply.

326 IAC 8-2-1 (Surface Coating Emission Limitations)

This rule applies to sources that were built after January 1980. Since, the Parts Marking (N-30) was built prior to January 1980, this rule does not apply.

Conclusion

The operation of this automotive parts manufacturing source shall be subject to the conditions of the Minor Source Operating Permit 065-20314-00001.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler**

Company Name: NC-M Chassis Systems, LLC
Address City IN Zip: 1817 I Avenue, New Castle, Indiana 47362
Permit Number: MSOP 065-20314
Plt ID: 065-00001
Reviewer: Brian J. Pedersen
Application Date: October 26, 2004

Unit ID #	Capacity (MMBtu/hr)
Boiler #1	36
Boiler #3	36
Total	72

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

72.00

631

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100	5.50	84.0
				**see below		
Potential Emission in tons/yr	0.599	2.397	0.189	31.536	1.734	26.490

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 2 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 Small Industrial Boiler
 HAPs Emissions**

Company Name: NC-M Chassis Systems, LLC
Address City IN Zip: 1817 I Avenue, New Castle, Indiana 47362
Permit Number: MSOP 065-20314
Pit ID: 065-00001
Reviewer: Brian J. Pedersen
Application Date: October 26, 2004

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 0.00210	Dichlorobenzene 0.00120	Formaldehyde 0.07500	Hexane 1.80000	Toluene 0.00340
Potential Emission in tons/yr	0.000662	0.000378	0.023652	0.567648	0.001072

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.0011	Chromium 0.0014	Manganese 0.0004	Nickel 0.0021	Total
Potential Emission in tons/yr	0.00016	0.00035	0.00044	0.00012	0.00066	0.595

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler**

Company Name: NC-M Chassis Systems, LLC
Address City IN Zip: 1817 I Avenue, New Castle, Indiana 47362
Permit Number: MSOP 065-20314
Plt ID: 065-00001
Reviewer: Brian J. Pedersen
Application Date: October 26, 2004

Unit ID #	# of Units	Total Capacity (MMBtu)
AM1-AM12	12	97.8
AM13	1	4.00
N-27cc, N-27dd	2	3.80
N-27ee, N-27ff	2	1.80
Total		107

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

107

941

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100	5.50	84.0
				**see below		
Potential Emission in tons/yr	0.894	3.58	0.282	47.0	2.59	39.5

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 4 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler
HAPs Emissions

Company Name: NC-M Chassis Systems, LLC
Address City IN Zip: 1817 I Avenue, New Castle, Indiana 47362
Permit Number: MSOP 065-20314
Plt ID: 065-00001
Reviewer: Brian J. Pedersen
Application Date: October 26, 2004

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 0.00210	Dichlorobenzene 0.00120	Formaldehyde 0.07500	Hexane 1.80000	Toluene 0.00340
Potential Emission in tons/yr	0.000988	0.000564	0.035281	0.846742	0.001599

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.0011	Chromium 0.0014	Manganese 0.0004	Nickel 0.0021	Total
Potential Emission in tons/yr	0.00024	0.00052	0.00066	0.00018	0.00099	0.888

Methodology is the same as page 3.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

HAP Calculations
Parts Marking, Lime Silo and Wet Type Machining Operations
Company Name: NC-M Chassis Systems, LLC
Address City IN Zip: 1817 I Avenue, New Castle, Indiana 47362
Permit Number: MSOP 065-20314
Plt ID: 065-00001
Reviewer: Brian J. Pedersen
Application Date: October 26, 2004

Source ID	Chemical	TDS No.	Part Quantity	UOM	Conv. Factor	Sp. Gr.	Actual Mean %	Potential Mean %	HAP Emission Factor %	Production Ratio	Reporting Year 2003		Potential LBS Chemical Weight	Potential Haps (tons/year)	Total Haps (tons/year)	Worst Case Hap (tons/year)
											Original LBS Chemical Weight	Actual LBS Chemical Weight				
N-30	METHYL ISOBUTYL KETONE	170879	3 GAL		0	0.95	22.5	75.00	100	1.07	5	5.3	19.1	0.010		
N-30	XYLENE (MIXED ISOMERS)	84064	2,346 EA		0.035	0.89	75	75.00	100	1.07	62	61.6	66.1	0.033		
N-30	XYLENE (MIXED ISOMERS)	70275	12 EA		0.035	0.89	70	75.00	100	1.07	0	0.3	0.34	0.000		
N-30	XYLENE (MIXED ISOMERS)	93494	48 EACH		0.035	0.89	75	75.00	100	1.07	1	1.3	1.35	0.001		
N-30	XYLENE (MIXED ISOMERS)	97591	12 EA		0.035	0.89	75	75.00	100	1.07	0	0.3	0.34	0.000		
N-30	XYLENE (MIXED ISOMERS)	75706	72 EACH		0.035	0.89	75	75.00	100	1.07	2	1.9	2.03	0.001		
N-30	XYLENE (MIXED ISOMERS)	97592	12 EA		0.035	0.89	75	75.00	100	1.07	0	0.3	0.34	0.000		
N-30	XYLENE (MIXED ISOMERS)	97593	12 EA		0.035	0.89	75	75.00	100	1.07	0	0.3	0.34	0.000		
N-30	XYLENE (MIXED ISOMERS)	93495	48 EACH		0.035	0.89	75	75.00	100	1.07	1	1.3	1.35	0.001		
N-30	XYLENE (MIXED ISOMERS)	72135	655 EACH		0.035	0.91	75	75.00	100	1.07	17	17.2	18.5	0.009		
N-30	XYLENE (MIXED ISOMERS)	79619	1,193 EACH		0.035	0.89	75	75.00	100	1.07	31	31.3	33.6	0.017		
N-30	XYLENE (MIXED ISOMERS)	71229	581 EACH		0.035	0.89	75	75.00	100	1.07	15	15.3	16.4	0.008		
N-30	XYLENE (MIXED ISOMERS)	73015	1,037 EA		0.035	0.89	75	75.00	100	1.07	27	27.2	29.2	0.015		
N-30	XYLENE (MIXED ISOMERS)	69726	387 EA		0.035	0.89	75	75.00	100	1.07	10	10.2	10.9	0.005		
N-30	XYLENE (MIXED ISOMERS)	72342	1,273 EACH		0.035	0.91	80	75.00	100	1.07	36	35.6	35.9	0.018		
												209	236	0.118		
N-16	FORMALDEHYDE	192606	0 GAL		0	61	0	0.0012	100	1.07	0	0.00	0.00	0.000		
N-16	FORMALDEHYDE	176647	11,550 GAL		0	0.93	0.0012	0.0012	100	1.07	1	1.08	1.15	0.001		
												1.08	1.15	0.001		
N-46	FORMALDEHYDE	130446	6 EACH		2.5	0	0.05	0.05	100	1.07	0	0.01	0.01	0.000		
N-46	METHANOL	130446	6 EACH		2.5	0	0.02	0.05	100	1.07	0	0.00	0.01	0.000		
N-46	HYDROCHLORIC ACID	153436	30,940 LB		0	1.28	2	2.00	100	1.07	619	619	664	0.332		
N-46	ACRYLIC ACID	140299	10,378 POUND		0	1.081	0.0014	2.00	100	1.07	0	0.145	223	0.111		
N-46	METHANOL	182367	1,058 LB		0	1.109	0.0059	2.00	100	1.07	0	0.062	22.7	0.011		
N-46	COBALT COMPOUNDS	136631	6,570 POUND		0	1.25	1	2.00	100	1.07	66	65.7	141	0.071		
												685	1,051	0.525	0.644	0.332

HAP PTE = (Part Quantity) * (Conversion Factor) * (Potential Mean %) * (Production Ratio)

The potential mean % is based upon the largest HAP content for any material within an individual source group. Also, for liquids, the UOM is converted utilizing the appropriate specific gravity value and conversion factors.

The production ratio is based upon the maximum hours of operation in a given year (8,760) versus the actual hours of operation in 2003 (8,160 hours)

SD App A