INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: January 17, 2013

RE: Carrier Corporation / 097 - 32628 - 00015

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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-AM.dot12/3/07

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January 17, 2013

Ms Jennifer Doyle
Carrier Corporation
7310 West Morris Street
Indianapolis, IN 46231

Re: 097-32628-00015
Third Administrative Amendment to
M097-24135-00015

Dear Ms. Doyle:

Carrier Corporation was issued a Minor Source Operating Permit (MSOP) Renewal No. M097-24135-00015 on August 22, 2008 for a stationary air conditioning and furnace manufacturing facility located at 7310 West Morris Street, Indianapolis, IN 46231. On December 12, 2012, the Office of Air Quality (OAQ) received an application from the source requesting:

(a) Pursuant to 326 IAC 2-6.1-6(d)(2)(A), the Authorized Individual is changed to Phil Grady. This change to the permit is considered an administrative amendment because the permit is amended to change the name, address or telephone number of any person identified in the permit.

(b) Pursuant to 326 IAC 2-6.1-6(d)(2)(A), the fin press, identified as P-6, and Parts Washer, identified as W-1, have been removed from the source. The removal of Parts Washer (W-1) also reduces natural gas combustion by 1.5 MMBtu/hr and is reflected in the calculations. This change to the permit is considered an administrative amendment because the permit is amended to change the descriptive information concerning the source of emissions unit, where the revision will not trigger a new applicable requirement.

(c) The source has added two (2) fin presses, identified as P-10 and P-11, using Chem Arrow 5698 as lubricant with a combined VOC emissions of 7.38 tons per year. Pursuant to 326 IAC 2-1.1-3(e)(1)(D) this modification is at the exemption level. Therefore, Pursuant to 326 IAC 2-6.1-6(d)(8), this change to the permit is considered an administrative amendment.

(d) Section D.1 has been deleted because it contains an unenforceable limit. Section D.2 and D.3 have been renumbered.

The attached Technical Support Document (TSD) provides additional explanation of the changes to the source/permit.

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Bruce Farrar, of my staff, at 317-234-5401 or 1-800-451-6027, and ask for extension 4-5401.

Sincerely,

Tripurari Sinha

Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachments: revised permit and TSD

TS/bf

cc: File - Marion County
Marion County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section

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MINOR SOURCE OPERATING PERMIT RENEWAL

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

Carrier Corporation
7310 West Morris Street
Indianapolis, Indiana 46231

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M097-24135-00015	
Issued by: *Original signed by:* Kyle Walker, Deputy Director Department of Public Works	Issuance Date: August 22, 2008 Expiration Date: August 22, 2018

First Notice-Only Change No.: M097-27845-00015 issued on April 29, 2009
Second Notice-Only Change No.: M097-31683-00015 issued on May 3, 2012

Third Administrative Amendment No.: M097-32628-00015	
Issued by: Tripurari Sinha Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: January 17, 2013 Expiration Date: August 22, 2018

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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 air conditioning and furnace manufacturing facility.

Source Address:	7310 West Morris Street, Indianapolis, IN 46231
General Source Phone Number:	317-481-5746
SIC Code:	3585 (Air-Conditioning and Warn Air Heating Equipment and Commercial and Industrial Refrigeration Equipment)
County Location:	Marion
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD, Emission Offset, and Nonattainment NSR Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

(a) Ten (10) Fan Coil Fin Presses:

Emission Unit IDs P-1 and P-2 (both installed in 1991), P-3 (installed in 1998), P-4 (installed in 1991), P-5 (installed in 2003), P-7 (installed in 2005), P-8 and P-9 (installed in 2011), P-10 and P-11 (installed in 2013) each press with 36.75 inches wide Coil Stock with maximum capacity of 500 pounds of aluminum per hour. Presses P-1 thru P-5 and P-7 utilizes FL-89-40 Low VOC Fin Stamping Evaporative Lubricant as metal stamping fluid (mineral spirit) containing 2.72 pounds of VOC per gallon. Presses P-8 thru P-11 utilize Chem Arrow 5698 Low VOC Fin Stamping Evaporative Lubricant as metal stamping fluid containing 1.05 pounds of VOC per gallon.

Emissions are exhausted to the atmosphere through Stack GV-1.

(b) One (1) Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 150 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 10 liters per minute, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Perchloroethylene (PCE) emission is controlled by the Vapor Phase Activated Carbon unit.

Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.

(c) Three (3) Aqueous Detergent Parts Washer Systems consisting of:

(1) Unit W-2, installed in 1994, consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.40 MMBtu/hr and exhausting to stack PE-15.

(2) Unit W-4, installed in 1999, consisting of consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.70 MMBtu/hr and exhausting to stack PE-45.

(3) Unit W-5, installed in 1999, consisting of consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.70 MMBtu/hr and exhausting to stack PE-41.

using cleaners containing glycol ether with maximum cleaner usage capacity of 37,000 pounds per year each.

(d) Three (3) Autobrazers, Emission Units IDs AB-1, AB-2, and AB-3, burning natural gas, with maximum heat input capacity of 0.5, 0.9, and 1.2 MMBtu/hr, respectively.

Emissions are exhausted to the atmosphere through Stacks PE-39, PE-50, and PE-51.

A combined total production capacity of the three (3) Autobrazers is 267 fan coil slabs per hour using 28.8 lb/hour of braze rings and 0.87 lb/hr of gas flux.

(e) Eight (8) forced draft Cooling Towers, Emission Units IDs CT-1, CT-2, CT-3, and CT-4, constructed in 2006 and CT-5, CT-6, CT-7 and CT-8 constructed in 2011, used to provide indirect cooling of closed loop chiller water used in the air conditioning system for the buildings, and for indirect cooling of closed loop air compressor cooling water systems.

As water that is recirculated within the towers mists, drifts and evaporates, mineral deposits in the water form particulate emissions.
Cooling Towers CT-1 and CT-2 have a maximum evaporative water recirculation rate of 2,275 gallons per hour each; CT-3 has a maximum evaporative water recirculation rate of 236 gallons per hour; CT-4 has a maximum evaporative water recirculation rate of 1,020 gallons per hour; CT-5 has a maximum evaporative water recirculation rate of 1,704 gallons per hour; CT-6 has a maximum evaporative water recirculation rate of 379 gallons per hour; CT-7 has a maximum evaporative water recirculation rate of 1,800 gallons per hour; and CT-8 has a maximum evaporative water recirculation rate of 1,500 gallons per hour.

(f) One (1) R&D Paint Booth, used for Research and Development, constructed in 2006, with maximum surface coating capacity of six (6) prototype HVAC units per day using no more than one (1) quart of air dry paint and one (1) pint of reducer per unit. PM emissions are controlled by 95% efficient paint arrestor panel filters.

(g) Natural gas fired heating units:

(1) One hundred three (103) Building 8 heaters/air make-up units, with total heat input capacity of 33.621 MMBtu/hr.

(2) Twenty-four (24) Building 9 heaters/air make-up units, with total heat input capacity of 6.269 MMBtu/hr.

(3) Four (4) Fire Water and R&D Associated Humidity Control Boilers, with total heat input capacity of 5.559 MMBtu/hr.

(4) Two hundred and twenty-five (225) Production Line Test Stations, with total heat input capacity of 1.162 MMBtu/hr.

(5) One (1) parts washer, identified as W-6, using a non VOC and non HAP solution, with total heat input capacity of 0.725 MMBtu/hr, and exhausting to stack PE-49.

(h) Two (2) Emergency Generators firing natural gas, Emission Units IDs Generator-1 and Generator-2, with maximum output capacity of 45 HP and 90 HP, respectively, operating no more than 500 hours per year, constructed in 1969.

(i) One (1) Emergency Generator firing diesel fuel, Emission Units ID Generator-3, with maximum output capacity of 377 HP, operating no more than 500 hours per year, constructed in 2003.

(j) One (1) parts washer, identified as W-3, using an electric heater to heat the water (rated at 1.2 MMBtu/Hr) and exhausting to stack PE-37.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, M097-24135-00015, is issued for a fixed term of ten (10) 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, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Reserved

B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual 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) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

(c) 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.10 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

(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.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

(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.

(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.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to 097-24135-00015 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty days prior to the date of expiration of the source’s existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

(b) A timely renewal application is one that is:

(1) Submitted at least one hundred twenty days prior to the date of the expiration of this permit; and

(2) 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) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.15 Source Modification Requirement

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.16 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][IC 13-17-3-2][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 the conditions of this permit;

(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 facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(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.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.18 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing.

(b) The Permittee may call the following telephone numbers: 1-800-451-6207 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.19 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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 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.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 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 thirty percent (30%) 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.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.5 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.6 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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

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.

(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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.7 Performance Testing [326 IAC 3-6]

(a) 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.

For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

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 test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 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.8 Compliance Requirements [326 IAC 2-1.1-11]

IDEM, OAQ 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 [326 IAC 2-6.1-5(a)(2)]

C.9 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.10 Reserved

C.11 Instrument Specifications [326 IAC 2-1.1-11]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale

such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of these response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

C.13 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.14 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 within ninety (90) days of permit issuance.

C.15 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required**,** the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

(c) Reserved.

(d) 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 FACILITY OPERATION CONDITIONS

Emission Units Description:

(c) Three (3) Aqueous Detergent Parts Washer Systems consisting of:

(1) Unit W-2, installed in 1994, consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.40 MMBtu/hr and exhausting to stack PE-15.

(2) Unit W-4, installed in 1999, consisting of consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.70 MMBtu/hr and exhausting to stack PE-45.

(3) Unit W-5, installed in 1999, consisting of consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.70 MMBtu/hr and exhausting to stack PE-41.

using cleaners containing glycol ether with maximum cleaner usage capacity of 37,000 pounds per year each.

(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 Volatile Organic Compounds [326 IAC 8-1-1(b)]

Three (3) Aqueous Detergent Parts Washer Systems, Emission Unit IDs W-2, W-4, and W-5 shall utilize cleaners containing Glycol Ether in the amount of no more than 1% by weight; cleaner throughput shall not be greater than one hundred forty eight (148) pounds per day. These limitations will ensure VOC potential to emit before add-on control being below fifteen (15) pounds per day and, pursuant to 326 IAC 8-1-1(b), shall exempt Parts Washer Systems Emission Unit W-2, W-4, and W-5 from 326 IAC 8 requirements.

Record Keeping Requirements

D.1.2 Record Keeping Requirements [326 IAC 8-1-1(c)]

(a) Pursuant to 326 IAC 5-1-1(c), the owner or operator of this source shall keep records of the daily cleaner consumption and VOC/HAP content in the cleaners used in the Parts Washer Systems Emission Unit IDs W-2, W-4, and W-5. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type, amount used and daily VOC emissions.

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.2 FACILITY OPERATION CONDITIONS

Emissions Unit Description:

(b) One (1) Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 150 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 10 liters per minute, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Perchloroethylene (PCE) emission is controlled by the Vapor Phase Activated Carbon unit. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994

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

Record Keeping and Reporting Requirements

D.2.1 Record Keeping Requirements

(a) Records of Perchloroethylene (PCE) and/or any other HAP emissions from this soil and groundwater remediation system shall include HAP concentrations, exhaust flow rates, and monthly HAP emissions.

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3 FACILITY OPERATION CONDITIONS

Emission Units Description:

(g) Natural gas fired heating units:

(3) Four (4) Fire Water and R&D Associated Humidity Control Boilers, with total heat input capacity of 5.559 MMBtu/hr.

(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.3.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate Rules: Emission limitations for facilities specified in 326 IAC 6-2-1(d)), particulate matter emission from indirect heating units at sources with total maximum operating capacity less than 10 MMBtu/hr shall not exceed 0.6 lb/MMBtu heat input. Particulate matter emission from each of the four (4) Fire Water and R&D Associated Humidity Control Boilers (total heat input capacity of 5.559 MMBtu/hr), utilized for indirect heating purposes and constructed after September 21, 1983, shall be limited to 0.6 pounds per MMBtu heat input.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT 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:	Carrier Corporation
Address:	7310 West Morris Street
City, State, ZIP:	Indianapolis, IN 46231
Phone #:	317-481-5746
MSOP #:	M097-24135-00015

I hereby certify that Carrier Corporation is:
- ☐ still in operation.
- ☐ no longer in operation.

I hereby certify that Carrier Corporation is:
- ☐ in compliance with the requirements of MSOP 097-24135-00015.
- ☐ not in compliance with the requirements of MSOP 097-24135-00015.

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:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865

MALFUNCTION REPORT

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 ?_____, 100 TONS/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 PERMIT 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:_____

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

Technical Support Document (TSD) for an Administrative Amendment to a Minor Source Operating Permit (MSOP)

Source Description and Location

Source Name:	**Carrier Corporation**
Source Location:	**7310 West Morris Street, Indianapolis, IN 46231**
County:	**Marion**
SIC Code:	**3585**
Operation Permit No.:	**097-24135-00015**
Operation Permit Issuance Date:	**August 22, 2008**
Administrative Amendment No.:	**097-32628-00015**
Permit Reviewer:	**Bruce Farrar**

On December 12, 2012, the Office of Air Quality (OAQ) received an application from Carrier Corporation related to a modification to an existing stationary air conditioning and furnace manufacturing facility.

Existing Approvals

The source was issued MSOP Renewal No. 097-24135-00015 on August 22, 2008. The source has since received the following approvals:

(a) First Notice-Only Change No. 097-27845-00015, issued on April 29, 2009; and

(a) Second Notice-Only Change No. 097-31683-00015, issued on May 3, 2012.

County Attainment Status

The source is located in Marion County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of Indianapolis bounded by 11th Street on the north; Capitol Avenue on the west; Georgia Street on the south; and Delaware Street on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of Indianapolis and Marion County.
O_3	Attainment effective November 8, 2007, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Attainment effective July 10, 2000, for the part of Franklin Township bounded by Thompson Road on the south; Emerson Avenue on the west; Five Points Road on the east; and Troy Avenue on the north. Attainment effective July 10, 2000, for the part of Wayne Township bounded by Rockville Road on the north; Girls School Road on the east; Washington Street on the south; and Bridgeport Road on the west. The remainder of the county is not designated.

[1]Attainment effective October 18, 2000, for the 1-hour ozone standard for the Indianapolis area, including Marion County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour designation was revoked effective June 15, 2005.
Basic nonattainment designation effective federally April 5, 2005, for PM2.5.

(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) 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 NOx emissions are considered when evaluating the rule applicability relating to ozone. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) $PM_{2.5}$
Marion County has been classified as nonattainment for $PM_{2.5}$ in 70 FR 943 dated January 5, 2005. On May 8, 2008, U.S. EPA promulgated specific New Source Review rules for $PM_{2.5}$ emissions. These rules became effective on July 15, 2008. Therefore, direct $PM_{2.5}$ and SO_2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants
Marion County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

(a) The fugitive emissions of criteria pollutants, hazardous air pollutants, and greenhouse gases are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

(b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Status of the Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

This PTE table is from Appendix A of Second Notice Only Change 097-31683-00015, issued on May 3, 2012.

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)									
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e**	Total HAPs	Worst Single HAP
Fin Presses (P-1 thru P-5 and P-7 thru P-11)	-	-	-	-	-	71.93	-	-	-	-
Cooling Towers (CT-1 thru CT-8)	0.93	0.93	0.93	-	-	-	-	-	-	-
Autobrazer	1.18	1.18	1.18	-	-	-	-	-	-	-
Miscellaneous Production	-	-	-	-	-	8.41	-	-	0.77	0.56 Toluene
Natural Gas Combustion	0.56	2.26	2.26	0.18	29.70	1.63	24.94	35,853	0.56	0.53 Hexane
Parts Washers (W-2 thru W-6)	-	-	-	-	-	1.40	-	-	1.38	1.38 Glycol Ethers
R & D Paint Booth	0.55	0.55	0.55	-	-	2.77	-	-	0.95	0.95 Glycol Ethers
Emergency Generators	0.25	0.25	0.25	0.20	3.46	0.24	1.46		0.37	0.11 Formalde-hyde
Soil Remediation System	-	-	-	-	-	0.03	-	-	1.61	1.61 PCE
Total PTE of Entire Source	3.50	5.23	5.23	0.38	33.79	86.53	26.94	36,626	5.64	2.33 Glycol Ethers
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	NA	NA	NA	250	250	100,000	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	100	100	NA	NA	NA	NA	NA

negl. = negligible
*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
**The 100,000 CO_2e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

Description of Administrative Amendment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Carrier Corporation on December 12, 2012, relating to the construction of two new fin presses and the removal of one fin press (F-6) and one parts washer (W-1).

The following is a list of the new emission units:

Two (2) fin presses, identified as P-10 and P-11, installed in 2013, each press with 36.75 inches wide Coil Stock with maximum capacity of 500 pounds of aluminum per hour and exhausting to Stack GV-1. Presses P-10 and P-11 utilize Chem Arrow 5698 Low VOC Fin Stamping Evaporative Lubricant as metal stamping fluid containing 1.05 pounds of VOC per gallon.

The following is a list of removed emission units:

(a) One (1)fin press, identified as P-6.

(b) One (1) Aqueous Detergent Parts Washer System, identified as W-1, and exhausting to stack PE-35.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP Administrative Amendment

The following table is used to determine the appropriate permit level under 326 IAC 2-6.1-6. This table reflects the PTE before controls of the administrative amendment. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

	PTE of Administrative Amendment (tons/year)									
Process/ Emission Unit	PM	PM10	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e	Total HAPs	Worst Single HAP
Fin Press (P-10)	-	-	-	-	-	3.69	-	-	-	-
Fin Press (P-11)	-	-	-	-	-	3.69	-	-	-	-
Total PTE of Proposed Revision						7.38				
- = negligible										

The source has added two (2) fin presses, identified as P-10 and P-11, using Chem Arrow 5698 as lubricant with a combined VOC emissions of 7.38 tons per year. Pursuant to 326 IAC 2-1.1-3(e)(1)(D) this modification is at the exemption level. Therefore, Pursuant to 326 IAC 2-6.1-6(d)(8), this change to the permit is considered an administrative amendment.

PTE of the Entire Source After Issuance of the MSOP Administrative Amendment

The table below summarizes the potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)									
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e**	Total HAPs	Worst Single HAP
Fin Presses (P-1 thru ~~P-8~~ **P-5 and P-7 thru P-11)** α	-	-	-	-	-	~~82.20~~ **71.93**	-	-	-	-
Cooling Towers (CT-1 thru CT-8)	0.93	0.93	0.93	-	-	-	-	-	-	-
Autobrazer	1.18	1.18	1.18	-	-	-	-	-	-	-
Miscellaneous Production	-	-	-	-	-	8.41	-	-	0.77	0.56
Natural Gas Combustion β	~~0.58~~ **0.56**	~~2.31~~ **2.26**	~~2.31~~ **2.26**	0.18	~~30.34~~ **29.70**	~~1.67~~ **1.63**	~~25.48~~ **24.94**	~~36,626~~ **35,853**	~~0.77~~ **0.56**	~~0.55~~ **0.53**
Parts Washers (W-2 thru W-6) γ	-	-	-	-	-	~~1.48~~ **1.40**	-	-	1.38	1.38
R & D Paint Booth	0.55	0.55	0.55	-	-	2.77	-	-	0.95	0.95
Emergency Generators	0.25	0.25	0.25	0.20	3.46	0.24	1.46		0.37	0.11
Soil Remediation System	-	-	-	-	-	0.03	-	-	1.61	1.61
Total PTE of Entire Source	~~3.50~~ **3.48**	~~5.23~~ **5.18**	~~5.23~~ **5.18**	0.38	~~33.79~~ **33.15**	~~96.81~~ 86.42	~~26.94~~ **26.41**	~~36,626~~ **35,853**	~~5.64~~ **5.63**	
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	NA	NA	NA	250	250	100,000	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	100	100	NA	NA	NA	NA	NA

negl. = negligible
*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
**The 100,000 CO_2e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.
α The fin presses, identified as P-8 and P-9, have changed lubricant which has resulted in lower VOC emissions for these two emission units.
β Includes removal of 1.5 MMBtu/hr natural combustion associated with Parts Washer W-1).
γ Includes the removal of Parts Washer W-1.

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this MSOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Revision (tons/year)									
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e**	Total HAPs	Worst Single HAP
Fin Presses (P-1 thru P-5 and P-7 thru P-11) α	-	-	-	-	-	71.93	-	-	-	-
Cooling Towers (CT-1 thru CT-8)	0.93	0.93	0.93	-	-	-	-	-	-	-
Autobrazer	1.18	1.18	1.18	-	-	-	-	-	-	-
Miscellaneous Production	-	-	-	-	-	8.41	-	-	0.77	0.56
Natural Gas Combustion β	0.56	2.26	2.26	0.18	29.70	1.63	24.94	35,853	0.56	0.53
Parts Washers (W-2 thru W-6) γ	-	-	-	-	-	1.40	-	-	1.38	1.38
R & D Paint Booth	0.55	0.55	0.55	-	-	2.77	-	-	0.95	0.95
Emergency Generators	0.25	0.25	0.25	0.20	3.46	0.24	1.46		0.37	0.11
Soil Remediation System	-	-	-	-	-	0.03	-	-	1.61	1.61
Total PTE of Entire Source	**3.48**	**5.18**	**5.18**	**0.38**	**33.15**	**86.42**	**26.41**	**35,853**	**5.63**	
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	NA	NA	NA	250	250	100,000	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	100	100	NA	NA	NA	NA	NA

negl. = negligible
*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
**The 100,000 CO_2e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.
α The fin presses, identified as P-8 and P-9, have changed lubricant which has resulted in lower VOC emissions for these two emission units.
β Includes removal of 1.5 MMBtu/hr natural combustion associated with Parts Washer W-1).
γ Includes the removal of Parts Washer W-1.

MSOP Status

(a) This administrative amendment to an existing Title V minor stationary source will not change the minor status, because the uncontrolled/unlimited potential to emit regulated pollutants from the

entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-6.1 (MSOP).

(b) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

(c) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit greenhouse gases (GHGs) will still be less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO_2 equivalent emissions (CO_2e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

(a) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit renewal.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

(b) The 40 CFR Part 63 NESHAP, Subpart NNNN (Surface Coating of Large Appliances) is not included in this permit renewal for the fin presses Emission Units P-10 and P-11 because the metal stamping fluid (Evaporative Lubricant) is Protective Oil which is not considered “coating” for the purposes of this subpart.

(c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

(d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

(a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.

(b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.

(c) 326 IAC 2-3 (Emission Offset) and (for PM2.5 nonattainment counties) 326 IAC 2-1.1-5 (Nonattainment New Source Review)
This modification to an existing Emission Offset minor stationary source will not change the Emission Offset minor status, because the potential to emit of all nonattainment regulated pollutants from the entire source will continue to be less than 100 tons per year. Therefore,

pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.

This modification to an existing minor stationary source under 326 IAC 2-1.1-5 (Nonattainment New Source Review) will not change the minor status, because the potential to emit of PM2.5 from the entire source will continue to be less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.

(d) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new units is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

(e) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

(f) 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 this permit:

(1) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(2) 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.

(g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.

(h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
This source is not subject to the requirements of 326 IAC 6-5, because it does not have potential fugitive particulate emissions greater than 25 tons per year.

Fin Presses (F-10 and F-11)

(i) 326 IAC 8-2-4 (Coil coating operations)
The fin presses are not subject to 326 IAC 8-2-4 (Coil coating operations) because the evaporative lubricant used in the fin presses does not contain solids.

(j) 326 IAC 8-2-9 (Surface Coating Emission Limitations: miscellaneous metal coating operations)
The fin presses are not subject to 326 IAC 8-2-9 (Surface Coating Emission Limitations: Miscellaneous Metal Coating Operations) because the evaporative lubricant used in the fin presses is used for temporary surface preparation prior to stamping and is not used to prevent sticking of internally moving parts. Also, the evaporative lubricant does not contain solids.

Compliance Determination, Monitoring and Testing Requirements

The existing compliance requirements will not change as a result of this administrative amendment. The source shall continue to comply with the applicable requirements and permit conditions as contained in MSOP No: 097-24135-00015, issued on August 22, 2008.

Proposed Changes

The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

(a) The Authorized Individual is changed to Phil Grady.

(b) The fin press, identified as P-6, and Parts Washer, identified as W-1, have been removed from the source. The removal of Parts Washer (W-1) also reduces natural gas combustion by 1.5 MMBtu/hr and is reflected in the calculations.

(c) The source has added two (2) fin presses, identified as P-10 and P-11, using Chem Arrow 5698 as lubricant with a combined VOC emissions of 7.38 tons per year.

(d) Section D.1 has been deleted because it contains an unenforceable limit. Section D.2 and D.3 have been renumbered.

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

(a) ~~Eight (8)~~ **Ten (10)** Fan Coil Fin Presses:

Emission Unit IDs P-1 and P-2 (both installed in 1991), P-3 (installed in 1998), P-4 (installed in 1991), P-5 (installed in 2003), P-7 (installed in 2005), P-8 and P-9 (installed in 2011), **P-10 and P-11 (installed in 2013)** each press with 36.75 inches wide Coil Stock with maximum capacity of 500 pounds of aluminum per hour, ~~and one (1) Fin Press, Emission Unit ID P-6 (installed in 2003), with 18 inches wide Coil Stock and maximum capacity of 300 pounds of aluminum per hour ; all~~**. p Presses P-1 thru P-5 and P-7** utilize FL-89-40 Low VOC Fin Stamping Evaporative Lubricant as metal stamping fluid (mineral spirit) containing 2.72 pounds of VOC per gallon. **Presses P-8 thru P-11 utilize Chem Arrow 5698 Low VOC Fin Stamping Evaporative Lubricant as metal stamping fluid (mineral spirit) containing 1.05 pounds of VOC per gallon.**

Emissions are exhausted to the atmosphere through Stack GV-1.

(b) ***

(c) ~~Six (6)~~ **Three (3)** Aqueous Detergent Parts Washer Systems **consisting of:** , ~~Emission Unit IDs W-1, W-2, W-3, W-4, W-5, and W-6, consisting of wash/rinse furnaces burning natural gas with total maximum capacity of 8.4 million cubic feet of Natural Gas per year and parts washers~~

(1) Unit W-2, installed in 1994, consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.40 MMBtu/hr and exhausting to stack PE-15.

(2) Unit W-4, installed in 1999, consisting of consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.70 MMBtu/hr and exhausting to stack PE-45.

(3) Unit W-5, installed in 1999, consisting of consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.70 MMBtu/hr and exhausting to stack PE-41.

using cleaners containing glycol ether with maximum cleaner usage capacity of 37,000 pounds per year each.

~~Parts Washer System Emission Unit ID W-1 was installed in 1993, W-2 and W-3 were installed in 1994, W-4 and W-5 in 1999, W-6 was installed in 2011.~~

~~Emissions are exhausted to the atmosphere through Stacks PE-15, PE-35, PE-37, PE-45, PE-41, and PE-49.~~

***

(g) Natural gas fired heating units:

(1) ***

(2) ***

(3) ***

(4) ***

(5) One (1) parts washer, identified as W-6, using a non VOC and non HAP solution, with total heat input capacity of 0.725 MMBtu/hr, and exhausting to stack PE-49.

(h) ***

(i) ***

(j) One (1) parts washer, identified as W-3, using an electric heater to heat the water (rated at 1.2 MMBtu/Hr) and exhausting to stack PE-37.

***

~~**SECTION D.1 FACILITY OPERATION CONDITIONS**~~

~~**Emission Units Description:**~~

~~(a) Eight (8) Fan Coil Fin Presses: Emission Unit IDs P-1 and P-2 (both installed in 1991), P-3 (installed in 1998), P-4 (installed in 1991), P-5 (installed in 2003), P-7 (installed in 2005), P-8 and P-9 (installed in 2011), each press with 36.75 inches wide Coil Stock with maximum capacity of 500 pounds of aluminum per hour, and one (1) Fin Press, Emission Unit ID P-6 (installed in 2003), with 18 inches wide Coil Stock and maximum capacity of 300 pounds of aluminum per hour; all presses utilize FL-89-40 Low VOC Fin Stamping Evaporative Lubricant as metal stamping fluid (mineral spirit) containing 2.72 pounds of VOC per gallon. Emissions are exhausted to the atmosphere through Stack GV-1.~~

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

~~**Emission Limitations and Standards**~~

~~D.1.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]~~

~~An application for a prior approval shall be submitted by the source in accordance with 326 IAC 2 to the IDEM, OAQ if the source proposes to modify any of the Emission Units IDs P-1, P2, P-2, P-4, P-5, P-6, P-7, P-8 and P-9 so that their individual potential to emit VOC becomes equal or greater than 25 tons per year.~~

SECTION D.~~2~~1 FACILITY OPERATION CONDITIONS

Emission Units Description:

(c) ~~Six (6) Aqueous Detergent Parts Washer Systems, Emission Unit IDs W-1, W-2, W-3, W-4, W-5, and W-6, consisting of wash/rinse furnaces burning natural gas with total maximum capacity of 8.4 million cubic feet of Natural Gas per year and parts washers using cleaners containing glycol ether with maximum cleaner usage capacity of 37,000 pounds per year each.~~

~~Parts Washer System Emission Unit ID W-1 was installed in 1993, W-2 and W-3 were installed in 1994, W-4 and W-5 in 1999, W-6 was installed in 2011.~~

~~Emissions are exhausted to the atmosphere through Stacks PE-15, PE-35, PE-37, PE-45, PE-41, and PE-49.~~

(c) Three (3) Aqueous Detergent Parts Washer Systems consisting of:

(1) Unit W-2, installed in 1994, consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.40 MMBtu/hr and exhausting to stack PE-15.

(2) Unit W-4, installed in 1999, consisting of consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.70 MMBtu/hr and exhausting to stack PE-45.

(3) Unit W-5, installed in 1999, consisting of consisting of a wash/rinse furnace, using natural gas-fired heater with a total heat input capacity of 0.70 MMBtu/hr and exhausting to stack PE-41.

using cleaners containing glycol ether with maximum cleaner usage capacity of 37,000 pounds per year each.

(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.~~2~~**1**.1 Volatile Organic Compounds [326 IAC 8-1-1(b)]

~~(a)Six (6)~~ **Three (3)** Aqueous Detergent Parts Washer Systems, Emission Unit IDs ~~W-1, W-3~~,**W-2,** W-4, **and** W-5~~, and W-6~~ shall utilize cleaners containing Glycol Ether in the amount of no more than 1% by weight; cleaner throughput shall not be greater than one hundred forty eight (148) pounds per day. These limitations will ensure VOC potential to emit before add-on control being below fifteen (15) pounds per day and, pursuant to 326 IAC 8-1-1(b), shall exempt Parts Washer Systems Emission Unit ~~W-1, W-3,~~ **W-2,** W-4, **and** W-5, ~~and W-6~~ from 326 IAC 8 requirements.

~~(b) Before making any change or modification to the Emission Units IDs W-1, W-3, W-4, and W-5 which may increase its actual VOC emission before add-on controls to 15 pounds per day, and application for prior permitting approval shall be submitted to the IDEM, OAQ.~~

Record Keeping Requirements

D.~~2~~**1**.2 Record Keeping Requirements [326 IAC 8-1-1(c)]

(a) Pursuant to 326 IAC 5-1-1(c), the owner or operator of this source shall keep records of the daily cleaner consumption and VOC/HAP content in the cleaners used in the Parts Washer Systems Emission Unit IDs ~~W-1,~~ ~~W-3,~~ **W-2,** W-4, **and** W-5, ~~and W-6.~~ Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type, amount used and daily VOC emissions.

(b) ***

SECTION D.~~3~~**2** FACILITY OPERATION CONDITIONS

Record Keeping and Reporting Requirements

D.~~3~~**2**.1 Record Keeping Requirements

***

SECTION D.~~4~~**3** FACILITY OPERATION CONDITIONS

Emission Limitations and Standards

D.~~4~~**3**.1 Particulate Matter (PM) [326 IAC 6-2-4]

***

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on December 12, 2012.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed MSOP Administrative Amendment No.097-32628-00015. The staff recommends to the Commissioner that this MSOP Administrative Amendment be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Bruce Farrar at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5401 or toll free at 1-800-451-6027 extension 4-5401.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

Appendix A: Emissions Calculations
Total Source Emissions Summary

Company Name: Carrier Corporation
Address City IN Zip: 7310 West Morris Street, Indianapolis, IN 46206
MSOP Administrative Amendment: 097-32628-00015
Plt ID: 097-00015
Reviewer: Bruce Farrrar
Date: December 12, 2012

	Uncontrolled Emissions Tons per Year Prior to Administrative Amendment*									
Emission Unit	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	VOC	CO	GHG as CO2e	Total HAP	Single HAP
Fin Presses (P-1 thru P-8)	-	-	-	-	-	82.20	-	-	-	-
Cooling Towers (CT-1 thru CT-8)	0.93	0.93	0.93	-	-	-	-	-	-	-
Autobrazer	1.18	1.18	1.18	-	-	-	-	-	-	-
Miscellaneous Production	-	-	-	-	-	8.41	-	-	0.77	0.56
Natural Gas Combustion	0.58	2.31	2.31	0.18	30.34	1.67	25.48	36,626	0.57	0.55
Parts Washers (W-1 thru W-6)	-	-	-	-	-	1.48	-	-	1.38	1.38
R & D Paint Booth	0.55	0.55	0.55	-	-	2.77	-	-	0.95	0.95
Emergency Generators	0.25	0.25	0.25	0.20	3.46	0.24	1.46		0.37	0.11
Soil Remediation System	-	-	-	-	-	0.03	-	-	1.61	1.61
total:	**3.50**	**5.23**	**5.23**	**0.38**	**33.79**	**96.81**	**26.94**	**36,626**	**5.64**	

* These emissions are based upon MSOP NOC 097-31683-00015 issued on May 3, 2012.

	Uncontrolled Emissions Tons per Year of the Adminstrative Amendment									
Emission Unit	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**	**GHG as CO2e**	**Total HAP**	**Single HAP**
New Fin Press (P-10)	-	-	-	-	-	3.69	-	-	-	-
New Fin Press (P-11)	-	-	-	-	-	3.69	-	-	-	-
total:	**0**	**0**	**0**	**0**	**0**	**7.37**	**0**	**0**	**0**	**0**

	Uncontrolled Emissions Tons per Year After Administrative Amendment									
Emission Unit	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	VOC	CO	GHG as CO2e	Total HAP	Single HAP
Fin Presses (P-1 thru P-5 and P-7 thru P-11) α	-	-	-	-	-	71.93	-	-	-	-
Cooling Towers (CT-1 thru CT-8)	0.93	0.93	0.93	-	-	-	-	-	-	-
Autobrazer	1.18	1.18	1.18	-	-	-	-	-	-	-
Miscellaneous Production	-	-	-	-	-	8.41	-	-	0.77	0.56
Natural Gas Combustion β	0.56	2.26	2.26	0.18	29.70	1.63	24.94	35,853	0.56	0.53
Parts Washers (W-2 thru W-6) γ	-	-	-	-	-	1.40	-	-	1.38	1.38
R & D Paint Booth	0.55	0.55	0.55	-	-	2.77	-	-	0.95	0.95
Emergency Generators	0.25	0.25	0.25	0.20	3.46	0.24	1.46		0.37	0.11
Soil Remediation System	-	-	-	-	-	0.03	-	-	1.61	1.61
total:	**3.48**	**5.18**	**5.18**	**0.38**	**33.15**	**86.42**	**26.41**	**35,853**	**5.63**	

α The fin presses, identified as P-8 and P-9, have changed lubricant which has resulted in lower VOC emissions for these two emission units.
β Includes removal of 1.5 MMBtu/hr natural combustion associated with Parts Washer W-1).
γ Includes the removal of Parts Washer W-1

Appendix A: Emissions Calculations
New Fin Presses (P-10 and P-11)
Updated Fin Presses (P-8 and P-9)
VOC Emissions

Company Name: Carrier Corporation
Address City IN Zip: 7310 West Morris Street, Indianapolis, IN 46206
MSOP Administrative Amendment: 097-32628-00015
Plt ID: 097-00015
Reviewer: Bruce Farrrar
Date: December 12, 2012

Fin Presses Emission Calculation

Chem Arrow 5698 low VOC Fin Stamping Evaporative Lubricant Properties	
Specific Gravity	0.84
Lube Density (lb/gal)	7.014
Volatile Organic Compound Content (lb/gal)	1.05

	Capacity, alum.	Maximum Potential Fin Stamping Lubricant Usage	VOC Content	PTE Basis		Maximum Potential Lube Use			Maximum Potential VOC			
Em. Unit	lb/hr	(gal/hr)	(lb/gal)	(hr/day)	(hr/yr)	gal/day	gal/mon	gal/yr	lb/hr	lb/day	lb/yr	ton/yr
P-8	500	0.8	1.05	24.00	8760	19.2	584	7,008	0.84	20.2	7,373	3.69
P-9	500	0.8	1.05	24.00	8760	19.2	584	7,008	0.84	20.2	7,373	3.69
P-10	500	0.8	1.05	24.00	8760	19.2	584	7,008	0.84	20.2	7,373	3.69
P-11	500	0.8	1.05	24.00	8760	19.2	584	7,008	0.84	20.2	7,373	3.69
					Totals:	**76.80**	**2,336**	**28,032**	**3.37**	**80.80**	**29,492**	**14.75**

Methodology
PTE VOC (lbs/hr) = (gallons/hour) * (VOC lbs/gallon)
PTE VOC (tons/year) = (gallons/hour) * (VOC lbs/gallon) *(8760 hours/1 year) * (1 ton/2000 lbs)

Appendix A: Emissions Calculations
Existing Fin Presses (P-1 thru P-5 and P-7)
VOC Emissions

Company Name: Carrier Corporation
Address City IN Zip: 7310 West Morris Street, Indianapolis, IN 46206
MSOP Administrative Amendment: 097-32628-00015
Plt ID: 097-00015
Reviewer: Bruce Farrrar
Date: December 12, 2012

Fin Presses Emission Calculation

FL-89-40 Low VOC Fin Stamping Evaporative Lubricant Properties	
Specific Gravity	0.8175
Lube Density (lb/gal)	6.807
Volatile Organic Compound Content (lb/gal)	2.72

	Capacity, alum.	Maximum Potential Fin Stamping Lubricant Usage	VOC Content	PTE Basis		Maximum Potential Lube Use			Maximum Potential VOC			
Em. Unit	lb/hr	(gal/hr)	(lb/gal)	(hr/day)	(hr/yr)	gal/day	gal/mon	gal/yr	lb/hr	lb/day	lb/yr	ton/yr
P-1	500	0.8	2.72	24.00	8760	19.2	584	7,008	2.18	52.2	19,062	9.53
P-2	500	0.8	2.72	24.00	8760	19.2	584	7,008	2.18	52.2	19,062	9.53
P-3	500	0.8	2.72	24.00	8760	19.2	584	7,008	2.18	52.2	19,062	9.53
P-4	500	0.8	2.72	24.00	8760	19.2	584	7,008	2.18	52.2	19,062	9.53
P-5	500	0.8	2.72	24.00	8760	19.2	584	7,008	2.18	52.2	19,062	9.53
P-7	500	0.8	2.72	24.00	8760	19.2	584	7,008	2.18	52.2	19,062	9.53
					Totals:	**115.20**	**3,504**	**42,048**	**13.06**	**313.34**	**114,371**	**57.19**

New Fin Press (P-10)
New Fin Press (P-11)

Appendix A: Emissions Calculations
Parts Washers
VOC and HAP Emissions

Company Name: Carrier Corporation
Address City IN Zip: 7310 West Morris Street, Indianapolis, IN 46206
MSOP Administrative Amendment: 097-32628-00015
Plt ID: 097-00015
Reviewer: Bruce Farrrar
Date: December 12, 2012

Dept.		Cleaning Solution Manufacturer	Cleaning Solution Name	Actual Product Usage Rate Gallons per unit	Maximum Production Rate Units per hour	Potential Hourly Usage gallons	Potential Annual Usage gallons	Product Density lb/gal	VOC wt%	VOC lb/hr	VOC lb/year	Hazardous Air Pollutant (HAP) Content			
												Glycol Ethers		Diethanolamine	
												%	lbs/yr	%	lbs/yr
Line 128 Ramco Furnace Washer	W-2	Galaxy	Challenge 1219	0.00047	147	0.0691	605	8.89	1.0%	0.006	54	0.00%	0.00	0.00%	0
Line 128 Hx Young and Bertke Furnace Washer	W-3	THIS WASHER ONLY USES HOT WATER AND IS NOT A VOC EMISSIONS SOURCE							0.0%	0.000	0	0.00%	0.00	0.00%	0.00
Line 164 CAE Ransohoff Fan Coil Washer	W-4	Oakite	3160 Aluminum Cleaner	0.00386	92	0.3551	3111	9.00	1.8%	0.058	504	1.80%	504	0.00%	0.00
Line 163 CAE Ransohoff Fan Coil Washer	W-5	Oakite	3160 Aluminum Cleaner	0.011	144	1.5840	13876	9.00	1.8%	0.257	2248	1.80%	2248	0.00%	0.00
Line A90 Parts Washer	**W-6**	The AO90 (W-6) does not use any solvent-based cleaner.													
TOTAL (lbs)										**0.320**	**2806**		**2752**		**0**
TOTAL (tons)											**1.40**		**1.38**		**0.00**

Methodology
VOC/HAP (lbs/hr) = (gallons/hour) * (lbs/gallon) * (% wt VOC or HAP)
VOC/HAP (lbs/hr) = (gallons/hour) * (lbs/gallon) * (% wt VOC or HAP) * (8760 hours/1 year) * (1 ton/2000 lbs)

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100

Company Name: Carrier Corporation
Address City IN Zip: 7310 West Morris Street, Indianapolis, IN 46206
MSOP Administrative Amendment: 097-32628-00015
Plt ID: 097-00015
Reviewer: Bruce Farrrar
Date: December 12, 2012

Heat Input Capacity MMBtu/hr	HHV mmBtu / mmscf	Potential Throughput MMCF/yr
67.8	1000	593.9

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.56	2.26	2.26	0.18	29.70	1.63	24.94

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 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
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
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 10 for HAPs emissions calculations.

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

Company Name: Carrier Corporation
Address City IN Zip: 7310 West Morris Street, Indianapolis, IN 46206
MSOP Administrative Amendment: 097-32628-00015
Plt ID: 097-00015
Reviewer: Bruce Farrrar
Date: December 12, 2012

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	6.236E-04	3.564E-04	2.227E-02	5.345E-01	1.010E-03

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.485E-04	3.267E-04	4.157E-04	1.128E-04	6.236E-04

Methodology is the same as page 9.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.
See Page 11 for Greenhouse Gas calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Greenhouse Gas Emissions

Company Name: Carrier Corporation
Address City IN Zip: 7310 West Morris Street, Indianapolis, IN 46206
MSOP Administrative Amendment: 097-32628-00015
Plt ID: 097-00015
Reviewer: Bruce Farrrar
Date: December 12, 2012

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	35,636	0.7	0.7
Summed Potential Emissions in tons/yr	35,637		
Global Warming Potential	1	21	310
CO2e Total in tons/yr	35,853		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Jennifer Doyle
Carrier Corporation
7310 W Morris St
Indianapolis, IN 46231

DATE: January 17, 2013

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
MSOP - Administrative Amendment
097 - 32628 - 00015

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Phil Grady
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Mail Code 61-53

IDEM Staff	LPOGOST 1/17/2013 Carrier Corporation 097 - 32628 - 00015 final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

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1		Jennifer Doyle Carrier Corporation 7310 W Morris St Indianapolis IN 46231 (Source CAATS) Via confirmed Delivery									
2		Phil Grady Carrier Corporation 7310 W Morris St Indianapolis IN 46231 *(RO CAATS)*									
3		Marion County Health Department 3838 N, Rural St Indianapolis IN 46205-2930 *(Health Department)*									
4		Indianapolis City Council and Mayors Office 200 East Washington Street, Room E Indianapolis IN 46204 *(Local Official)*									
5		Marion County Commissioners 200 E. Washington St. City County Bldg., Suite 801 Indianapolis IN 46204 *(Local Official)*									
6		Matt Mosier Office of Sustainability 1200 S Madison Ave #200 Indianapolis IN 46225 *(Local Official)*									
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