

Synthetic Minor Determination and/or **Netting Determination**

Permit To Install **08-04620**

A. Source Description

Behr Dayton Thermal Products, LCC SIC 3585, is a manufacturer of heating units for the automotive industry. The facility is currently a synthetic minor facility pursuant to Title V operating permit requirements for criteria pollutants and HAP(s). Behr Dayton Thermal proposes to install two additional deoiling ovens for two new radiator/condenser lines in 2005 and wants to remain non-Title V. They have proposed to limit their organic compound (OC) emissions, in order to remain a synthetic minor facility.

B. Facility Emissions and Attainment Status

Behr Dayton Thermal Products, LCC, is currently classified as a synthetic minor facility for all criteria pollutants and HAP(s). Behr Dayton Thermal Products, LCC is located in Montgomery county which is currently designated as non-attainment for ozone.

C. Source Emissions

Potential uncontrolled emissions of OC from all emissions units after the new units are installed and without federally enforceable restrictions are 586.96 tons per year. Emissions unit P104 and P105 will be limited to 4.9 tons per rolling, 12-month summation, and the seven previously permitted deoiling ovens (P093, P098, P099, P100, P101, P102 and P103) are limited to 23.44 tons per rolling, 12-month summation. The total allowable OC emissions for all nine deoiling ovens are 28.34 tons per rolling 12-month summation, this allowable emissions represent PTE after controls. Other emissions unit at the facility are limited to 13.77 tons per year, therefore, potential emissions of OC from this facility are 42.11 tons per year ($28.34 + 13.77 = 42.11$).

D. Conclusion

Behr Dayton Thermal Products, LCC will remain a synthetic minor facility by limiting the OC emissions, after controls. This will effectively restrict the facility's PTE for OC to below Major Stationary Source Title V operating permit requirements threshold levels and will not trigger major non-attainment NSR. Monthly monitoring, record keeping and calculations, along with quarterly deviation reports for emissions unit P104 and P105, will be required to monitor compliance. Since allowable emissions are below Major Stationary Source Title V operating permit requirements threshold levels and will not trigger major non-attainment NSR, this facility will remain a minor source.



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL
MONTGOMERY COUNTY**

CERTIFIED MAIL

Street Address:

Mailing Address:

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

Lazarus Gov.
Center

Application No: 08-04620

Fac ID: 0857040734

DATE: 8/31/2004

Behr Dayton Thermal Products LLC
Bill Huston
1600 Webster St
Dayton, OH 454040000

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$400** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

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

CC: USEPA

RAPCA

Miami Valley Regional Planning Commission

KY

IN

MONTGOMERY COUNTY

PUBLIC NOTICE

**ISSUANCE OF DRAFT PERMIT TO INSTALL 08-04620 FOR AN AIR CONTAMINANT SOURCE FOR
Behr Dayton Thermal Products LLC**

On 8/31/2004 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Behr Dayton Thermal Products LLC**, located at **1600 Webster St, Dayton, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 08-04620:

two deoiling ovens with thermal oxidizers.

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

John Paul, Regional Air Pollution Control Agency, 117 South Main Street, Dayton, OH 45422-1280
[(937)225-4435]



**Permit To Install
Terms and Conditions**

**Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance**

DRAFT PERMIT TO INSTALL 08-04620

Application Number: 08-04620
Facility ID: 0857040734
Permit Fee: **To be entered upon final issuance**
Name of Facility: Behr Dayton Thermal Products LLC
Person to Contact: Bill Huston
Address: 1600 Webster St
Dayton, OH 454040000

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1600 Webster St
Dayton, Ohio**

Description of proposed emissions unit(s):
two deoiling ovens with thermal oxidizers.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

A. Permit to Install General Terms and Conditions**1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any

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information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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

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

10. Public Disclosure

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

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

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

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

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

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| <u>Pollutant</u> | <u>Tons Per Year</u> |
|------------------|----------------------|
| OC | 4.9 |

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P104 - CAB Deoiling Oven, w/permanent total enclosure and thermal oxidizer | OAC rule 3745-31-05(A)(3) | The organic compound (OC) emissions from this emissions unit shall not exceed 0.56 lb/hr and 13.48 lbs/day. See A.2.a for emissions control requirements |
| | OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V) and OAC Rule 3745-31-05(C) (Synthetic Minor to avoid non-attainment review) | The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07(B) and OAC rule 3745-31-05(C). The organic compound (OC) emissions from this emissions unit shall not exceed 2.45 tons/yr per rolling 12-month period. |
| | OAC rule 3745-21-07(G)(2) | The emissions limitations specified by this rule are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3) |
| | OAC rule 3745-21-07(G)(6) | The percent emissions reduction |

specified by this rule is less stringent than the percent emissions reduction established pursuant to OAC rule 3745-31-05(A)(3)

2. Additional Terms and Conditions

- 2.a** The organic compound emissions from this emissions unit shall be controlled through the application of a permanent total enclosure with a 100% capture efficiency and a thermal oxidizer operating at a minimum 95% destruction efficiency.
- 2.b** The 0.56 lb/hr and 13.48 lbs/day organic compound emissions limitations were established for PTI purposes to reflect potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.c** In order to ensure that all organic compound emissions are vented from the deoiling ovens to the thermal incinerator, the permittee will utilize an interlock system which will be associated with the ventilation fan's rotation rate. This approach is being utilized since the oven only has two natural draft openings (the entrance and exit of the oven) and there are no other openings that can be compromised during the operation of the emissions unit. The other openings in the oven that are used for maintenance are closed during operation of the oven and are only opened for maintenance purposes when the oven is shut down. If the ventilation fan's rotation rate drops below the minimum rotation rate established during the initial emissions tests, that demonstrated that the emissions unit was in compliance (or the rotation rate established in subsequent emissions tests that demonstrated that the emissions unit was in compliance), then the mechanism that feeds the oil-coated parts into the oven will be shutdown until the ventilation fan's rotation rate is restored to the appropriate rate.
- 2.d** The total allowable emissions of OC from the two new deoiling ovens P104 and P105 shall not exceed 4.9 tons OC per rolling, 12-month summation.

B. Operational Restrictions

- 1.** The average combustion temperature within the thermal oxidizer, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent performance test that demonstrated the emissions unit was in

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compliance.

2. The furnace shall be maintained under negative pressure, at a minimum pressure differential that is not less than 0.007 inches of water, whenever the emissions unit is in operation. Compliance with the pressure differential requirement shall be demonstrated through a minimum fan speed in revolutions per minute (rpm), whenever this emissions unit is in operation.
3. The ventilation fan's rotation rate shall not be less than the minimum rotation rate established during the initial emissions tests that demonstrated that the emissions unit was in compliance (or the rotation rate established in subsequent emissions tests that demonstrated that the emissions unit was in compliance) when the emissions unit is in operation. (The minimum fan speed shall be 1515 rpm until the actual fan feed is determined through emissions testing)

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal oxidizer when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emissions test that demonstrated the emissions unit was in compliance.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
2. The permittee shall install, operate and maintain monitoring devices and a recorder which simultaneously measures and records the pressure inside and outside the deoiling oven. The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall maintain records of all three hour blocks of time during which the permanent total enclosure was not maintained at or above the minimum pressure differential of 0.007 inches of water, as a three hour average.

The permittee shall record and maintain the following information on a daily basis:

- a. The difference in pressure between the permanent total enclosure and the surrounding area(s).
- b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment and the associated emissions unit.

In lieu of pressure differential monitoring and recording, the permittee can demonstrate that the permanent total enclosure associated with this emissions unit, meets the criteria established in Method 204 using an alternative method. As such, the permittee is required to demonstrate that the permanent total enclosure is not compromised, under normal plant conditions, when the

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emissions unit is in operation, i.e., the air flow through the permanent total enclosure to the control device is always maintained under negative pressure, even when all additional egress points (non-natural draft openings) which could affect the permanent total enclosure, are opened.

In accordance with the alternative method, the permittee is required to continuously monitor the revolutions per minute (RPM) of the fan that maintains flow to the thermal oxidizer from the controlled deoiling oven, at or above the RPM established during the most recent performance test that demonstrated compliance with Method 204.

3. The permittee shall install, operate, and maintain a continuous ventilation fan rotation rate monitor and recorder which measures and records the rotation rate of the ventilation fan when the emissions unit is in operation. Units shall be in revolutions per minute. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The ventilation fan rotation rate monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. verification that the interlock system's set point (i.e., the minimum ventilation fan rotation rate that corresponds to 100% capture of the organic compound emissions) is correct;
- b. all periods of time when the interlock system was activated, when production through the oven was shut down because the furnace fan rotation rate had dropped below the required level; and
- c. all periods of time when the fan rotation rate dropped below the minimum rotation rate that corresponds to 100% capture of the organic emissions and the interlock system did not shut down operation.

The permittee shall, on a monthly basis, test the interlock system to ensure that the mechanism that feeds the oil-coated parts into the oven does shutdown when the ventilation fan's rotation rate drops below the rotation rate that corresponds to 100% capture of the organic compound emissions.

4. The permittee shall collect and record the following information each month for the purpose of determining annual OC emissions:
 - a. The total uncontrolled OC emissions from the stamping oil employed, in tons.
 - b. The calculated controlled OC emissions rate from the stamping oil, in tons. The

Behr Dayton Thermal Products LLC

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Facility ID: 0857040734

Emissions Unit ID: **P104**

controlled OC emissions rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent test that demonstrated that the emissions unit was in compliance.

- c. The rolling, 12-month summation of the monthly OC mass emissions rate in tons.

Issued: To be entered upon final issuance**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer does not comply with the temperature limitation specified above.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time when the fan rotation rate dropped below the minimum rotation rate that corresponds to 100% capture of the organic emissions and the interlock system did not shut down operation. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.2.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emissions limitation, and the actual rolling, 12-month OC emissions for each such month. These reports are due by the date described in Part 1-General Terms and Conditions of this permit, under Section A.2.
4. The permittee shall submit annual reports of the actual OC emissions from all nine deoiling ovens (P093, P098, P099, P100, P101, P102, P103, P104 and P105). These reports shall be submitted by January 31 of each year to the Director (District Office or Local Air Agency).

E. Testing Requirements

1. Compliance with the emissions limitations of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitation -
0.56 lb OC/hr

Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum pounds per hour throughput of oil by the minimum operating control efficiency of the thermal oxidizer, 95% or (1-0.95).
 - b. Emissions Limitation -
13.48 lbs OC /day

Applicable Compliance Method -
Compliance shall be determined by multiplying the 0.56 lb OC/hr emissions limitation by the maximum operating schedule of 24 hours/day. Therefore, provided compliance is

Behr I
PTI A

Emissions Unit ID: **P104**

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shown for the hourly limitation, compliance will also be shown for the daily limitation.

- c. Emissions Limitation -
2.45 tons OC/year per rolling 12-month period

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Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in Section C.4 of this permit.

2. The permittee shall conduct, or have conducted, emissions testing for this emissions unit in accordance with the following requirements:
 - a. The emissions testing shall be conducted within 6 months after permit issuance for this emissions unit. The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install and of other applicable Ohio EPA rules.
 - b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emissions rate and operating control efficiency. The capture efficiency is assumed to be 100% if the fan speed is sufficient to maintain 0.007 inches of water, whenever the emissions unit is in operation. A fan speed sufficient to maintain 0.007 inches of water, shall be determined during the initial compliance test.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emissions rate(s): Method 25 or Method 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The control efficiency (i.e., the percent reduction in mass emissions between inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10. The test methods and procedures selected shall be based upon a consideration of the diversity of organic species present and their total concentration, and the consideration of the potential presence of interfering gases.
 - e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emissions test(s).

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Emissions Unit ID: P104

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to

Behr I

PTI A

Emissions Unit ID: **P104**

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ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

F. Miscellaneous Requirements

None

Behr I

PTI A

Emissions Unit ID: P105

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC Emissions UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| P105 - CAB Deoiling Oven w/permanent total enclosure and thermal oxidizer | OAC rule 3745-31-05(A)(3) | The organic compound (OC) emissions from this emissions unit shall not exceed 0.56 lb/hr and 13.48 lbs/day. |
| | OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V) and OAC Rule 3745-31-05(C) (Synthetic Minor to avoid non-attainment review) | See A.2.a for emissions control requirements |
| | OAC rule 3745-21-07(G)(2) | The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07(B) and OAC rule 3745-31-05(C). |
| | OAC rule 3745-21-07(G)(6) | The organic compound (OC) emissions from this emissions unit shall not exceed 2.45 tons/yr per rolling 12-month period. |
| | | The emissions limitations specified by this rule are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3) |
| | | The percent emissions reduction |

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specified by this rule is less stringent than the percent emissions reduction established pursuant to OAC rule 3745-31-05(A)(3)

2. Additional Terms and Conditions

- 2.a** The organic compound emissions from this emissions unit shall be controlled through the application of a permanent total enclosure with a 100% capture efficiency and a thermal oxidizer operating at a minimum 95% destruction efficiency.
- 2.b** The 0.56 lb/hr and 13.48 lbs/day organic compound emissions limitations were established for PTI purposes to reflect potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.c** In order to ensure that all organic compound emissions are vented from the deoiling ovens to the thermal incinerator, the permittee will utilize an interlock system which will be associated with the ventilation fan's rotation rate. This approach is being utilized since the oven only has two natural draft openings (the entrance and exit of the oven) and there are no other openings that can be compromised during the operation of the emissions unit. The other openings in the oven that are used for maintenance are closed during operation of the oven and are only opened for maintenance purposes when the oven is shut down. If the ventilation fan's rotation rate drops below the minimum rotation rate established during the initial emissions tests, that demonstrated that the emissions unit was in compliance (or the rotation rate established in subsequent emissions tests that demonstrated that the emissions unit was in compliance), then the mechanism that feeds the oil-coated parts into the oven will be shutdown until the ventilation fan's rotation rate is restored to the appropriate rate.
- 2.d** The total allowable emissions of OC from the two new deoiling ovens P104 and P105 shall not exceed 4.9 tons OC per rolling, 12-month summation.

B. Operational Restrictions

- 5.** The average combustion temperature within the thermal oxidizer, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average

temperature during the most recent performance test that demonstrated the emissions unit was in compliance.

6. The furnace shall be maintained under negative pressure, at a minimum pressure differential that is not less than 0.007 inches of water, whenever the emissions unit is in operation. Compliance with the pressure differential requirement shall be demonstrated through a minimum fan speed in revolutions per minute (rpm), whenever this emissions unit is in operation.
3. The ventilation fan's rotation rate shall not be less than the minimum rotation rate established during the initial emissions tests that demonstrated that the emissions unit was in compliance (or the rotation rate established in subsequent emissions tests that demonstrated that the emissions unit was in compliance) when the emissions unit is in operation. (The minimum fan speed shall be 1515 rpm until the actual fan feed is determined through emissions testing)

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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal oxidizer when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emissions test that demonstrated the emissions unit was in compliance.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
2. The permittee shall install, operate and maintain monitoring devices and a recorder which simultaneously measures and records the pressure inside and outside the deoiling oven. The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall maintain records of all three hour blocks of time during which the permanent total enclosure was not maintained at or above the minimum pressure differential of 0.007 inches of water, as a three hour average.

The permittee shall record and maintain the following information on a daily basis:

- a. The difference in pressure between the permanent total enclosure and the surrounding area(s).
- b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment and the associated emissions unit.

In lieu of pressure differential monitoring and recording, the permittee can demonstrate that the permanent total enclosure associated with this emissions unit, meets the criteria established in Method 204 using an alternative method. As such, the permittee is required to demonstrate that the permanent total enclosure is not compromised, under normal plant conditions, when the

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emissions unit is in operation, i.e., the air flow through the permanent total enclosure to the control device is always maintained under negative pressure, even when all additional egress points (non-natural draft openings) which could affect the permanent total enclosure, are opened.

In accordance with the alternative method, the permittee is required to continuously monitor the revolutions per minute (RPM) of the fan that maintains flow to the thermal oxidizer from the controlled deoiling oven, at or above the RPM established during the most recent performance test that demonstrated compliance with Method 204.

3. The permittee shall install, operate, and maintain a continuous ventilation fan rotation rate monitor and recorder which measures and records the rotation rate of the ventilation fan when the emissions unit is in operation. Units shall be in revolutions per minute. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The ventilation fan rotation rate monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. verification that the interlock system's set point (i.e., the minimum ventilation fan rotation rate that corresponds to 100% capture of the organic compound emissions) is correct;
- b. all periods of time when the interlock system was activated, when production through the oven was shut down because the furnace fan rotation rate had dropped below the required level; and
- c. all periods of time when the fan rotation rate dropped below the minimum rotation rate that corresponds to 100% capture of the organic emissions and the interlock system did not shut down operation.

The permittee shall, on a monthly basis, test the interlock system to ensure that the mechanism that feeds the oil-coated parts into the oven does shutdown when the ventilation fan's rotation rate drops below the rotation rate that corresponds to 100% capture of the organic compound emissions.

4. The permittee shall collect and record the following information each month for the purpose of determining annual OC emissions:
 - a. The total uncontrolled OC emissions from the stamping oil employed, in tons.
 - b. The calculated controlled OC emissions rate from the stamping oil, in tons. The

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controlled OC emissions rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent test that demonstrated that the emissions unit was in compliance.

- c. The rolling, 12-month summation of the monthly OC mass emissions rate in tons.

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D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer does not comply with the temperature limitation specified above.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time when the fan rotation rate dropped below the minimum rotation rate that corresponds to 100% capture of the organic emissions and the interlock system did not shut down operation. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.2.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emissions limitation, and the actual rolling, 12-month OC emissions for each such month. These reports are due by the date described in Part 1-General Terms and Conditions of this permit, under Section A.2.
4. The permittee shall submit annual reports of the actual OC emissions from all nine deoiling ovens (P093, P098, P099, P100, P101, P102, P103, P104 and P105). These reports shall be submitted by January 31 of each year to the Director (District Office or Local Air Agency).

E. Testing Requirements

1. Compliance with the emissions limitations of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitation -
0.56 lb OC/hr

Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum pounds per hour throughput of oil by the minimum operating control efficiency of the thermal oxidizer, 95% or (1-0.95).
 - b. Emissions Limitation -
13.48 lbs OC /day

Applicable Compliance Method -
Compliance shall be determined by multiplying the 0.56 lb OC/hr emissions limitation by the maximum operating schedule of 24 hours/day. Therefore, provided compliance is

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shown for the hourly limitation, compliance will also be shown for the daily limitation.

- c. Emissions Limitation -
2.45 tons OC/year per rolling 12-month period

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Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in Section C.4 of this permit.

2. The permittee shall conduct, or have conducted, emissions testing for this emissions unit in accordance with the following requirements:
 - a. The emissions testing shall be conducted within 6 months after permit issuance for this emissions unit. The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install and of other applicable Ohio EPA rules.
 - b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emissions rate and operating control efficiency. The capture efficiency is assumed to be 100% if the fan speed is sufficient to maintain 0.007 inches of water, whenever the emissions unit is in operation. A fan speed sufficient to maintain 0.007 inches of water, shall be determined during the initial compliance test.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emissions rate(s): Method 25 or Method 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The control efficiency (i.e., the percent reduction in mass emissions between inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10. The test methods and procedures selected shall be based upon a consideration of the diversity of organic species present and their total concentration, and the consideration of the potential presence of interfering gases.
 - e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emissions test(s).

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Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

F. Miscellaneous Requirements

None