



Missouri Department of Natural Resources
Air Pollution Control Program

INTERMEDIATE STATE PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth herein.

Intermediate Operating Permit Number: OP2012-052

Expiration Date: NOV 25 2017

Installation ID: 051-0032

Project Number: 2012-01-073

Installation Name and Address

Modine Manufacturing Company
1502 South Country Club Drive
Jefferson City, MO 65109
Cole County

Parent Company's Name and Address

Modine Manufacturing Company
1500 DeKoven Ave
Racine, WI 53403

Installation Description:

Modine Manufacturing Company is a manufacturer of copper/brass heat transfer equipment consisting primarily of radiators. The installation has painting operations, annealing and bake ovens, solder/braze booths, tube mills, natural gas combustion equipment, and miscellaneous welding processes.

NOV 28 2012

Effective Date

Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Modine Manufacturing Company is a manufacturer of copper/brass heat transfer equipment consisting primarily of radiators. The installation has painting operations, annealing and bake ovens, solder/braze booths, tube mills, natural gas combustion equipment, and miscellaneous welding processes.

Reported Air Pollutant Emissions, tons per year					
Pollutants	2010	2009	2008	2007	2006
Particulate Matter ≤ Ten Microns (PM ₁₀)	2.98	2.98	5.51	2.46	3.07
Particulate Matter ≤ 2.5 Microns (PM _{2.5})	2.33	2.33	5.51	2.46	3.07
Sulfur Oxides (SO _x)	0.01	0.01	0.02	0.01	0.01
Nitrogen Oxides (NO _x)	2.16	2.16	2.50	2.17	2.42
Volatile Organic Compounds(VOC)	9.31	9.31	11.58	23.74	19.09
Carbon Monoxide (CO)	1.78	1.78	2.06	1.78	1.98
Lead (Pb)	0.05	0.05	0.23	0.06	0.06
Hazardous Air Pollutants (HAPs)	-	-	-	-	-
Ammonia (NH ₃)	0.07	0.07	0.08	0.07	0.08

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation which emits air pollutants and identified as having unit-specific emission limitations.

<u>Emission Unit #</u>	<u>Description of Emission Unit</u>
EP7	Annealing Machine
EP21	Welded Tube Mill #310
EP28	Automatic Solder Pour
EP55	Electrodeposition Paint (EDP) System & Bake Oven
EP84	IMRM Backsolder-after-Robot Machine
EP98	Hand Paint Booth
EP104	Electrically heated solder dip pot

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment, which does not have unit specific limitations at the time of permit issuance.

Description of Emission Source

Annealing Oven
Vertical Core Bake Oven
Solder/Braze Booth (South) #1 - #2
Maintenance Welding (MIG) #1 - #3
Induction Soldering
Final Assembly Welding #1 - #5
Robot Welding #1
Seaming (Hand, Semi-Automatic, Automatic) #1 - #14
Robot Welding #2
Unit Heaters (10)
Make-Up Air Units – Gas Fired
Tank Removal Station
Square Wave Fin Machine #1
Press Operations
Insta-Pak Operations
Spotwelders (2)
Touch-Up Painting & Spray Marking
(3) Plate Fin – Fin Machines (M3224, M4712 and M4402)
(5) Fin Presses (IMRM/AMOCS) (5413, 5309, 7340, 2464 and 8165)
Square Wave Fin Machine #2 (EP-72)
Voss Fin Machine #1
Oil Fogging Process
Voss Fin Machine #2
Final Assembly Solder #1 - #5
Test & Repair Soldering #1 - #25
Weld Repair Booth (MIG)
Subassembly Spotweld #1 - #5
Grinding #1 - #13
Sawing (Vertical Band)
Sawing (Tube)
Sawing (Scrap Band)
Maintenance Welding (TIG)
Maintenance Welding (Grinding & Sawing) #1 & #2
Maintenance Welding (Plasma Arc)
Back Soldering Reflow Stands #1 & #2
Voss Fin Machine #3
(4) Fin Press Machines
(5) Wire Feed Welders

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

PERMIT CONDITION PW001

10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants

Emission Limitation

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any source any visible emissions with an opacity greater than 20%.
2. Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any sixty (60) minutes air contaminants with an opacity up to 60%.

Monitoring

1. The permittee shall conduct opacity readings on each emission unit using the procedures contained in U.S. EPA Test Method 22. The permittee is only required to take readings when the emission unit is operating and when the weather conditions allow. If the permittee observes no visible or other significant emissions using these procedures, then no further observations are required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The permittee must maintain the following monitoring schedule:
 - a) The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.
 - b) Should the permittee observe no violations of this regulation during this period then-
 - i) The permittee may observe once every two (2) weeks for a period of eight (8) weeks.
 - ii) If a violation is noted, monitoring reverts to weekly.
 - iii) Should no violation of this regulation be observed during this period then-
 - (1) The permittee may observe once per month.
 - (2) If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Recordkeeping

The permittee shall maintain records of all observation results using Attachment B (or its equivalent), noting:

1. Whether any air emissions (except for water vapor) were visible from the emission units;
2. All emission units from which visible emissions occurred;
3. Whether the visible emissions were normal for the process;
4. The permittee shall maintain records of any equipment malfunctions, which may contribute to visible emissions (see Attachment D); and,
5. The permittee shall maintain records of all U.S. EPA Method 9 (see Attachment C) opacity tests performed.

Reporting

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any limitation established by this permit condition.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted in the annual compliance certification as required by Section V of this permit.

PERMIT CONDITION PW002

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

Emission Limitation

The permittee shall emit less than 100.0 tons of volatile organic compounds (VOC) in any consecutive 12-month period.

Monitoring/Recordkeeping

1. The permittee shall record the monthly and the sum of the most recent consecutive twelve (12) month VOC emissions in tons from this installation (See Attachment H).
2. All records shall be maintained for five years.
3. The permittee shall immediately make such records available to any Department of Natural Resources personnel upon request.

Reporting

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any limitation established by this permit condition.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted in the annual compliance certification as required by Section V of this permit.

PERMIT CONDITION PW003

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

Emission Limitation

1. The permittee shall emit less than 10.0 tons of any single hazardous air pollutant (HAP) in any consecutive 12-month period.
2. The permittee shall emit less than 25.0 tons of combined HAPs in any consecutive 12-month period.

Monitoring/Recordkeeping

1. The permittee shall record the monthly of individual and combined hazardous air pollutants (HAPs) emissions and the sum of the most recent consecutive twelve (12) month totals in tons from this installation (See Attachments F and G).
2. All records shall be maintained for five years.
3. The permittee shall immediately make such records available to any Department of Natural Resources personnel upon request.

Reporting

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any limitation established by this permit condition.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted in the annual compliance certification as required by Section V of this permit.

PERMIT CONDITION PW004

10 CSR 10-6.060 Construction Permits Required
Construction Permit #122008-004, Issued December 10, 2008

Operational Limitation

The permittee shall keep solvents and cleaning solutions in sealed containers whenever the materials are not in use. Modine Manufacturing Company shall provide and maintain suitable, easily read, permanent markings on all solvent and cleaning solution containers used at the installation. [Special Condition 2]

III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

Annealing Machine		
Emission Unit	Description	Manufacturer/Model #
EP7	Annealing Machine	Ind. Combustion Engineering (M-4863)

PERMIT CONDITION EP7-001

10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

Emission Limitation

1. Emissions from any new source operation shall not contain more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide.
2. Stack gasses shall not contain more than thirty-five milligrams (35 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.

Operational Limitation/Equipment Specification

This emission unit shall be limited to burning natural gas

Monitoring/Recordkeeping

1. The permittee shall maintain an accurate record of the sulfur content of fuel used. Fuel purchase receipts, analyzed samples or certifications that verify the fuel type and sulfur content will be acceptable.
2. All records shall be maintained for five years.
3. The permittee shall immediately make such records available to any Department of Natural Resources personnel upon request.

Reporting

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any limitation established by this permit condition.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted annually in the annual compliance certification, as required by Section V of this permit.

Automatic Solder Pour		
Emission Unit	Description	Manufacturer/Model #
EP28	Automatic Solder Pour	Modine/M7959 (Eclipse/65184)

PERMIT CONDITION EP28-001

10 CSR 10-6.060 Construction Permits Required
 Construction Permit #0295-007, Issued February 23, 1995

Emission Limitation

If in the opinion of the Director, a continuing situation of demonstrated nuisance odors exists for the neighbors of the installation, (s)he may require Modine Manufacturing Company to submit a corrective action plan adequate to timely and significantly mitigate the odors. Modine Manufacturing Company shall implement any such plan immediately upon approval by the Director. Failure to either submit or implement such plan shall be a violation of the permit. [Special Condition 2]

Welded Tube Mill #310		
Emission Unit	Description	Manufacturer/Model #
EP21	Welded Tube Mill #310	N/A

PERMIT CONDITION EP21-001

10 CSR 10-6.060 Construction Permits Required
 Construction Permit # 0396-023, Issued March 25, 1996

Emission Limitation

If in the opinion of the Director, a continuing situation of demonstrated nuisance odors exists for the neighbors of the installation, (s)he may require Modine Manufacturing Company to submit a corrective action plan adequate to timely and significantly mitigate the odors. Modine Manufacturing Company shall implement any such plan immediately upon approval by the Director. Failure to either submit or implement such plan shall be a violation of the permit. [Special Condition 1]

Electrodeposition Paint (EDP) System & Bake Oven		
Emission Unit	Description	Manufacturer/Model #
EP55	Electrodeposition Paint (EDP) System & Bake Oven	TTX/2248

PERMIT CONDITION EP55-001

10 CSR 10-6.260
 Restriction of Emission of Sulfur Compounds

Emission Limitation

No person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight (8) pounds of sulfur dioxide per million BTUs actual heat input averaged on any consecutive three (3) hour time period.

Operational Limitation/Equipment Specification

The emission unit shall be limited to burning pipeline grade natural gas and propane.

Monitoring/Recordkeeping/Reporting

1. The permittee shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any limitation established by this permit condition.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted annually in the annual compliance certification, as required by Section V of this permit.

IMRM Backsolder-after-Robot Machine	
Emission Unit	Description
EP84	IMRM Backsolder-after-Robot Machine

PERMIT CONDITION EP84-001
10 CSR 10-6.060 Construction Permits Required Construction Permit # 122001-015, Issued December 28, 2001

Emission Limitation

The permittee shall not discharge into the atmosphere lead in excess of 0.01 ton from a backsolder (after robot) machine (EP84) in any consecutive twelve (12) month period. [Special Condition 1A]

Monitoring/Recordkeeping

1. Modine shall record the monthly and the sum of the most recent consecutive twelve (12) month lead emissions in tons from emission unit EP84 (See Attachment I).
2. These records shall be kept on-site for five (5) years and shall be made immediately available for inspection to the Department of Natural Resources’ personnel upon request.

Reporting

1. The permittee shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any limitation established by this permit condition.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted annually in the annual compliance certification, as required by Section V of this permit.

Hand Operated Paint Booth	
Emission Unit	Description
EP98	Hand Paint Booth, MHDR: 5.96 gallons of paint/hour, Constructed April 2009

PERMIT CONDITION EP98-001
10 CSR 10-6.060 Construction Permits Required Construction Permit # 122008-004, Issued December 10, 2008

Operational Limitation

The fabric filter in the hand operated paint booth (EP-98) must be in use at all times when the paint booth is in operation. The filter shall be operated and maintained in accordance with the manufacturer's specifications. [Special Condition #1]

Monitoring

1. Coating operations equipped with filters shall not be operated without a filter in place.
2. The filters shall be inspected for holes, imperfections, proper installation or other problems that could hinder the effectiveness of the filter.
3. The filters shall be inspected each shift before spraying begins and after installation of a new filter.
4. The manufacturer's recommendations shall be followed with regard to installation and frequency of replacement of the filters.

Recordkeeping

1. The permittee shall maintain records of the inspections of filters including when they occur. (See Attachment D)
2. All records shall be maintained for five years.
3. The permittee shall immediately make such records available to any Department of Natural Resources personnel upon request.

Reporting

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any limitation established by this permit condition.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted annually in the annual compliance certification, as required by Section V of this permit.

Solder Dip Pot	
Emission Unit	Description
EP104	Electrically heated solder dip pot, controlled by dust collector 0.5 lb of solder per radiator unit

<p align="center">PERMIT CONDITION EP104-001</p> <p>10 CSR 10-6.060 Construction Permits Required Construction Permit # 102011-007, Issued October 11, 2011</p>
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Operational Limitation

1. The permittee shall control emissions from the solder dip pot (EP# 104) using a dust collector as specified in the permit application used for Construction Permit #102011-007. [Special Condition 1A]
2. The dust collector shall be operated and maintained in accordance with the manufacturer's specifications. The dust collector shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that the Department of Natural Resources' employees may easily observe them. [Special Condition 1B]

3. Replacement filters for the dust collector shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance). [Special Condition 1C]
4. The permittee shall ensure that the dust collector maintains a sufficient pressure drop through the dust collector by equipping the dust collector with a pressure drop alarm. The pressure drop alarm shall be maintained at the appropriate set point to ensure the dust collector is operating within the design conditions specified by the manufacturer's performance warranty. The pressure drop alarm shall be checked once per week to verify that it is operating properly. [Special Condition 1D]

Recordkeeping

1. The permittee shall maintain an operating and maintenance log for the dust collector which shall include the following: [Special Condition 1E]
 - a) Incidents of malfunction or tripping of the pressure drop alarm, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - b) Maintenance activities including pressure drop alarm checks, with inspection schedule, repair actions, and replacements, etc.
2. The permittee shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. [Special Condition 2]

Reporting

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any limitation established by this permit condition.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted annually in the annual compliance certification, as required by Section V of this permit.

IV. Core Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR), Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance. The following is only an excerpt from the regulation or code, and is provided for summary purposes only

10 CSR 10-6.045 Open Burning Requirements

- 1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- 2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
 - a) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
 - i) Kansas City metropolitan area. The open burning of household refuse must take place in an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of Kansas City and every contiguous municipality;
 - ii) Springfield-Greene County area. The open burning of household refuse must take place outside the corporate limits of Springfield and only within areas zoned A-1, Agricultural District;
 - iii) St. Joseph area. The open burning of household refuse must take place within an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of St. Joseph; and
 - iv) St. Louis metropolitan area. The open burning of household refuse is prohibited;
 - b) Yard waste, with the following exceptions:
 - i) Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
 - ii) Springfield-Greene County area. The City of Springfield requires an open burning permit for the open burning of trees, brush or any other type of vegetation. The City of Springfield prohibits the open burning of tree leaves;
 - iii) St. Joseph area. Within the corporate limits of St. Joseph, the open burning of trees, tree leaves, brush or any other type of vegetation grown on a residential property is allowed during the following calendar periods and time-of-day restrictions:
 - (1) A three (3)-week period within the period commencing the first day of March through April 30 and continuing for twenty-one (21) consecutive calendar days;
 - (2) A three (3)-week period within the period commencing the first day of October through November 30 and continuing for twenty-one (21) consecutive calendar days;
 - (3) The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
 - (4) In each instance, the twenty-one (21)-day burning period shall be determined by the director of Public Health and Welfare of the City of St. Joseph for the region in which the City of St. Joseph is located provided, however, the burning period first shall receive the approval of the department director; and

- iv) St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- 3) Certain types of materials may be open burned provided an open burning permit is obtained from the director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- 4) Modine Manufacturing Company may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Modine Manufacturing Company fails to comply with the provisions or any condition of the open burning permit.
- a) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
- 5) Reporting and Recordkeeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005, shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the director.
- 6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971, is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days, in writing, the following information:
- a) Name and location of installation;
- b) Name and telephone number of person responsible for the installation;
- c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
- d) Identity of the equipment causing the excess emissions;
- e) Time and duration of the period of excess emissions;
- f) Cause of the excess emissions;
- g) Air pollutants involved;
- h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;

- i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information list to the director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
 - 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
 - 4) Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
 - 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060 Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065 Operating Permits

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(5)(B)1.A(III)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)3.B]

10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61 Subpart M National Emission Standard for Asbestos

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.

- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

10 CSR 10-6.100 Alternate Emission Limits

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information

- 1) The permittee shall submit full emissions report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on Emission Inventory Questionnaire (EIQ) paper forms on the frequency specified in this rule and in accordance with the requirements outlined in this rule. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the director.
- 2) The permittee may be required by the director to file additional reports.
- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall submit a full EIQ for the 2011, 2014, 2017, and 2020 reporting years. In the interim years the installation may submit a Reduced Reporting Form; however, if the installation's emissions increase or decrease by more than five tons when compared to their last submitted full EIQ, the installation shall submit a full EIQ rather than a Reduced Reporting Form.
- 5) In addition to the EIQ submittal schedule outlined above, any permit issued under 10 CSR 10-6.060 Section (5) or (6) triggers a requirement that a full EIQ be submitted in the first full calendar year after the permitted equipment initially operates.
- 6) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the emissions report.
- 7) The permittee shall complete required reports on state supplied EIQ forms or electronically via MoEIS. Alternate methods of reporting the emissions can be submitted for approval by the director. The reports shall be submitted to the director by April 1 after the end of each reporting year. If the full emissions report is filed electronically via MoEIS, this due date is extended to May 1.
- 8) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 9) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150 Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.170 Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

Emission Limitation:

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
 - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 - b) Paving or frequent cleaning of roads, driveways and parking lots;
 - c) Application of dust-free surfaces;
 - d) Application of water; and
 - e) Planting and maintenance of vegetative ground cover.

Monitoring:

The permittee shall conduct inspections of its facilities sufficient to determine compliance with this regulation. If the permittee discovers a violation, the permittee shall undertake corrective action to eliminate the violation.

The permittee shall maintain the following monitoring schedule:

- 1) The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.
- 2) Should no violation of this regulation be observed during this period then-
 - a) The permittee may observe once every two (2) weeks for a period of eight (8) weeks.
 - b) If a violation is noted, monitoring reverts to weekly.
 - c) Should no violation of this regulation be observed during this period then-
 - i) The permittee may observe once per month.
 - ii) If a violation is noted, monitoring reverts to weekly.
- 3) If the permittee reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner to the initial monitoring frequency.

Recordkeeping:

The permittee shall document all readings on Attachment A, or its equivalent, noting the following:

- 1) Whether air emissions (except water vapor) remain visible in the ambient air beyond the property line of origin.
- 2) Whether the visible emissions were normal for the installation.
- 3) Whether equipment malfunctions contributed to an exceedance.
- 4) Any violations and any corrective actions undertaken to correct the violation.

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

- 1) The director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The director may specify testing methods to be used in accordance with good professional practice. The director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The director may conduct tests of emissions of air contaminants from any source. Upon request of the director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-6.165 Restriction of Emission of Odors

This requirement is not federally enforceable.

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

10 CSR 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status must allow the department to monitor training classes provided to employees who perform asbestos abatement.

Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance

- must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
- b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
- a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
- 5) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

10 CSR 10-6.280 Compliance Monitoring Usage

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the director.

- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a) Applicable monitoring or testing methods, cited in:
 - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 - ii) 10 CSR 10-6.040, "Reference Methods";
 - iii) 10 CSR 10-6.070, "New Source Performance Standards";
 - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.

V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

10 CSR 10-6.065, §(5)(E)2 and §(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.C General Recordkeeping and Reporting Requirements

- 1) Recordkeeping
 - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
 - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
 - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
 - b) The permittee shall submit a report of all required monitoring by:
 - i) April 1st for monitoring which covers the January through December time period.
 - ii) Exception. Monitoring requirements which require reporting more frequently than annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
 - c) Each report shall identify any deviations from emission limitations, monitoring, recordkeeping, reporting, or any other requirements of the permit.
 - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7 of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.

- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's annual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065 §(5)(C)1 and §(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(5)(C)1.A General Requirements

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted under this rule.
- 6) Failure to comply with the limitations and conditions that qualify the installation for an Intermediate permit make the installation subject to the provisions of 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit.

10 CSR 10-6.065(5)(C)1.C Reasonably Anticipated Operating Scenarios

None

10 CSR 10-6.065, §(5)(B)4; §(5)(C)1, §(6)(C)3.B; and §(6)(C)3.D; and §(5)(C)3 and §(6)(C)3.E.(I) – (III) and (V) – (VI) Compliance Requirements

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semi-annually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and exceedances must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
 - c) Whether compliance was continuous or intermittent;
 - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
 - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)7 Emergency Provisions

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions

limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:

- a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

10 CSR 10-6.065(5)(C)5 Off-Permit Changes

- 1) Except as noted below, the permittee may make any change in its permitted installation's operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is a Title I modification; Please Note: Changes at the installation which affect the emission limitation(s) classifying the installation as an intermediate source (add additional equipment to the recordkeeping requirements, increase the emissions above major source level) do not qualify for off-permit changes.
 - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Boulevard, Lenexa, KS 66219, no later than the next annual emissions report. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change; and
 - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes.

10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this permit was signed by Scott Miller, Regional Operations Director - Americas. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065 §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 2) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
 - a) The permit has a remaining term of less than three years;
 - b) The effective date of the requirement is later than the date on which the permit is due to expire;
or
 - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 3) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

10 CSR 10-6.065 §(5)(E)1.A and §(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

Attachments follow.

Attachment C

Method 9 Opacity Emissions Observations								
Company					Observer			
Location					Observer Certification Date			
Date					Emission Unit			
Time					Control Device			
Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
SUMMARY OF AVERAGE OPACITY								
Set Number	Time				Opacity			
	Start	End		Sum	Average			

Readings ranged from _____ to _____ % opacity.

Was the emission unit in compliance at the time of evaluation? _____
 YES NO Signature of Observer

Attachment E
 10 CSR 10-6.400 Compliance Demonstration

This attachment may be used to demonstrate that the listed emission units are in compliance with 10 CSR 10-6.400 *Restriction of Emission of Particulate Matter from Industrial Processes*. All units have a potential to emit particulate matter of less than 0.5 lb/hr. [10 CSR 10-6.400(1)(B)10]

The rule does not apply to the hand paint booth (EP98) because it is equipped with a control system designed to control 95% of particulate overspray. [10 CSR 10-6.400(1)(B)14]

EP #	MHDR	Unit	PM Emission Factor	Unit	PM Emissions (lb/hr)
3	0.066	ton	2.93	lb/ton	0.193
9	6.33	core/hr	0.00182	lb/core	0.012
11	0.002	1000 lb/hr	20.17	lb/1000 lb	0.040
17	0.022	ton/hr	12	lb/ton	0.264
21	0.066	ton/hr	5.49	lb/ton	0.362
23	0.002	ton/hr	32	lb/ton	0.064
28	0.02	ton/hr	4.27	lb/ton	0.085
30	0.0035	ton/hr	24	lb/ton	0.084
31	0.0006	ton/hr	40	lb/ton	0.024
32	0.002	ton/hr	24	lb/ton	0.048
33	0.002	ton/hr	24	lb/ton	0.048
34	0.003	ton/hr	60	lb/ton	0.180
36	0.00145	ton/hr	40	lb/ton	0.058
37	0.011	ton/hr	24	lb/ton	0.264
38	15	torch head-hr	0.0068	lb/torch head-hr	0.102
39	1	hr	0.0018	lb/hr	0.002
43	1	hr	0.0018	lb/hr	0.002
44	1	hr	0.0018	lb/hr	0.002
45	3	lb/hr	0.0018	lb/hr	0.005
46	1	hr	0.0018	lb/hr	0.002
51	0.06	ton/hr	0.201	lb/ton	0.012
55	0.36	ton/hr	0.1015	lb/ton	0.037
58	4	ton/hr	0.0018	lb/ton	0.007
74	0.002	ton/hr	24	lb/ton	0.048
84	0.0035	ton/hr	24	lb/ton	0.084
95	1	hr	0.0018	lb/hr	0.002
100	16.35	lb wire/hr	0.02	lb/lb wire	0.327
102	1	torch head-hr	0.0068	lb/torch head-hr	0.007
103	1	torch head-hr	0.00238	lb/torch head-hr	0.002
104	0.005	ton/hr	24	lb/ton	0.120
105	3.35	ton/hr	0.053	lb/ton	0.178

STATEMENT OF BASIS

Voluntary Limitations

In order to qualify for this Intermediate State Operating Permit, the permittee has accepted voluntary, federally enforceable emission limitations. Per 10 CSR 10-6.065(5)(C)1.A.(VI), if these limitations are exceeded, the installation immediately becomes subject to 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit. It is the permittee's responsibility to monitor emission levels and apply for a part 70 operating permit far enough in advance to avoid this situation. This may mean applying more than eighteen months in advance of the exceedance, since it can take that long or longer to obtain a part 70 operating permit.

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Intermediate Operating Permit Application, received January 23, 2012;
- 2) 2010 Emissions Inventory Questionnaire, received March 25, 2011; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.
- 4) U.S. EPA's Factor Information Retrieval (FIRE) Date System 6.25
- 5) Construction Permit Number 0184-044, Issued July 20, 1987
- 6) Construction Permit Number 0986-011, Issued September 29, 1986
- 7) Construction Permit Number 0587-002, Issued May 5, 1987
- 8) Construction Permit Number 1289-001, Issued December 4, 1989
- 9) Construction Permit Number 0189-008A, Issued January 20, 1989
- 10) Construction Permit Number 0189-003A, Issued January 20, 1989
- 11) No Construction Permit Required Determination Project #1100-0032-014, Issued August 30, 1989
- 12) Construction Permit Number: 0692-010, Issued June 18, 1992
- 13) Construction Permit Number 0193-006, Issued January 23, 1993
- 14) No Construction Permit Required Determination Project # 1100-0032-019, Issued March 17, 1994
- 15) Construction Permit Number 0295-007, Issued February 10, 1995
- 16) Construction Permit Number 0396-023, Issued March 14, 1996
- 17) Construction Permit Number 1096-004, Issued August 9, 1996
- 18) Construction Permit Number 0697-026, Issued June 12, 1997
- 19) Construction Permit Number 0997-042, Issued September 5, 1997
- 20) No Construction Permit Required Project #051-0032-025, Issued December 16, 1997
- 21) Construction Permit Number 0598-011, Issued May 6, 1998
- 22) Construction Permit Number 0398-021, Issued March 13, 1998
- 23) Construction Permit Number 0598-004, Issued April 4, 1998
- 24) No Construction Permit Required Determination Project #1998-05-022, Issued June 10, 1998
- 25) No Construction Permit Required Determination Project #1998-07-117, Issued July 28, 1998
- 26) Construction Permit Number 1098-010, Issued September 23, 1998
- 27) Construction Permit Number: 1298-001, Issued November 12, 1998
- 28) Construction Permit Number 1198-001, Issued November 2, 1998
- 29) Construction Permit Number 0199-019, Issued December 30, 1998

- 30) Construction Permit Number 0799-024, Issued July 28, 1999
- 31) Construction Permit Number 1099-013, Issued September 24, 1999
- 32) No Construction Permit Required Determination Project #1999-11-095, Issued December 10, 1999
- 33) No Construction Permit Required Determination Project #2000-08-014
- 34) Construction Permit Number 122001-015, Issued December 7, 2001
- 35) No Construction Permit Required Project #2002-05-114, Issued November 25, 2002
- 36) Construction Permit Number 072003-008, Issued June 12, 2003
- 37) No Construction Permit Required Project #2005-04-066, Issued June 9, 2005
- 38) Construction Permit Number 122006-010, Issued December 12, 2006
- 39) Construction Permit Number 122008-004, Issued December 10, 2008
- 40) No Construction Permit Required Determination Project #2009-09-052, Issued November 2, 2009
- 41) No Construction Permit Required Determination Project #2010-09-015, Issued October 5, 2010
- 42) Construction Permit Number 102011-007, Issued October 11, 2011

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

None

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined that the following requirements are not applicable to this installation at this time for the reasons stated.

10 CSR 10-6.400, *Restriction of Emission of Particulate Matter from Industrial Processes*

This rule does not apply because all of the equipment either has a potential to emit particulate matter of less than 0.5 lb/hr (see Attachment E) or is natural gas fired and doesn't meet the definition of process weight. [§(1)(B)12 and §(2)(A)]

10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*

This rule does not apply because all of the combustion equipment at the facility uses pipeline grade natural gas exclusively [§(1)(A)2]

10 CSR 10-6.405, *Restriction of Particulate Matter Emissions From Fuel Burning Equipment Used for Indirect Heating*

This rule does not apply because all indirect heating equipment is fueled by natural gas. [§(1)(C)]

Construction Permits

- 1) Construction Permit Number 0184-044, Issued July 20, 1987
This permit was issued for the installation of a folded core bake oven, a folded core cleaning line, and a folded core annealing oven. This permit contains no special conditions.

- 2) Construction Permit Number 0986-011, Issued September 29, 1986
A hard tube mill was permitted in this construction permit. The following statement regarding the hard tube mill is stated in Construction Permit 1096-004, "According to Chuck Miklich, Engineering Manager, Jefferson City facility, the hard tube mill approved in Permit 0986-011A has been removed. This has been verified by Missouri Department of Natural Resources-Jefferson City Regional Office, their records indicated the mill was removed in 04/95". Since the hard tube mill contained in this construction permit was removed in 1995, the construction permit is no longer valid.
- 3) Construction Permit Number 0587-002, Issued May 5, 1987
This construction permit is for the installation of an ED Paint System. The Paint System was modified in Construction Permit 1289-001 and therefore this construction permit was not included in the operating permit.
- 4) Construction Permit Number 1289-001, Issued December 4, 1989
The ED Paint System listed in this construction permit is a modification of an existing system. The System was removed with Construction Permit 0697-026 and re-installed with construction permit 1198-001. Therefore, this permit and conditions were not included in the operating permit.
- 5) Construction Permit 0189-008A, Issued January 20, 1989
This permit was issued for the addition of #305 Welded Tube Mill. This permit contains no special conditions.
- 6) Construction Permit 0189-003A, Issued January 20, 1989
This permit was issued for the addition of a set of dip pots to the solder dip line. This permit contains no special conditions.
- 7) No Construction Permit Required Determination Project #1100-0032-014, Issued August 30, 1989
- 8) Construction Permit 0692-010, Issued June 18, 1992
This permit was issued for the installation of and additional hard tube mill. This permit contains no special conditions.
- 9) Construction Permit 0193-006, Issued January 23, 1993
This construction permit was issued for the installation of an additional hard tube mill. The emission unit for this construction permit has been removed from the installation.
- 10) No Construction Permit Required Determination Project # 1100-0032-019, Issued March 17, 1994
- 11) Construction Permit 0295-007, Issued February 10, 1995
This permit was issued for the installation of an automatic solder pour machine (EP28). This permit contains special conditions which appear in this operating permit as Permit Condition EP28-001. Special Condition 1 was not included in the operating permit, since the installation has already conducted the required performance test.
- 12) Construction Permit 0396-023, Issued March 14, 1996
This permit was issued for a Welded Tube Mill #310. The permit contains special conditions which are included in this operating permit in Permit Condition EP21-001.
- 13) Construction Permit 1096-004, Issued August 9, 1996
This permit was issued for the construction of a sludge dryer with a high energy venturi scrubber. This permit contains no special conditions.
- 14) Construction Permit 0697-026, Issued June 12, 1997
This permit was issued for Cathodic Electrodeposition Painting and bake oven for coating heat exchangers, radiators, and other heat transfer equipment. Special Conditions 1 - 3 for VOC were deemed no longer applicable according to Construction Permit Number: 0799-024. Special Condition 1 of Construction Permit 0799-024 states, "This condition is intended to replace all

existing VOC limits set by construction permits at this installation.” Therefore, Special Conditions 1 - 3 of Construction Permit 0697-026 were not included in the operating permit.

15) Construction Permit 0997-042, Issued September 5, 1997

This permit was issued for welding, soldering and brazing booths; seaming, laser, sawing, grinding and press operations; and fin machines that were not previously permitted.

Special Conditions 1 - 3 for VOC were deemed no longer applicable according to Construction Permit 0799-024. Special Condition 1 of Construction Permit 0799-024 states, “This condition is intended to replace all existing VOC limits set by construction permits at this installation.”

Therefore, the special conditions of Construction Permit 0997-042 were not included in the operating permit.

Special Conditions 1 - 3 for PM₁₀ were deemed no longer necessary according to Construction Permit Number 1198-001, “Since the installation is no longer considered a major source of criteria air pollutants, the PM₁₀ emission limits imposed by previous permit are no longer necessary.

Unconditioned potential PM₁₀ emissions are below the major source threshold.” Therefore, the special conditions of 0997-042 were not included in the operating permit.

16) No Construction Permit Required Project #051-0032-025, Issued December 16, 1997

This no construction permit required determination was issued for renovations to the facility’s ventilation system.

17) Construction Permit 0598-011, Issued May 6, 1998

This permit was issued for the installation of one new Weld Around and two new backsoldering stands as well as the removal of an electrostatic precipitator from three existing beta welders.

Special Conditions 1 - 3 for PM₁₀ were deemed no longer necessary according to Construction Permit 1198-001, “Since the installation is no longer considered a major source of criteria air pollutants, the PM₁₀ emission limits imposed by previous permit are no longer necessary.

Unconditioned potential PM₁₀ emissions are below the major source threshold.” Therefore, the special conditions of 0598-011 were not included in the operating permit.

18) Construction Permit 0398-021, Issued March 13, 1998

This permit was issued for the installation of a square wave fin machine.

Special Conditions 1 - 3 for VOC were deemed no longer applicable according to Construction Permit 0799-024. Special Condition 1 of Construction Permit 0799-024 states, “This condition is intended to replace all existing VOC limits set by construction permits at this installation.”

Therefore, the special conditions of Construction Permit 0398-021 were not included in the operating permit.

19) Construction Permit 0598-004, Issued April 4, 1998

This permit was issued for the installation of a new beta welder.

Special Conditions 1 - 3 for PM₁₀ were deemed no longer necessary according to Construction Permit 1198-001, “Since the installation is no longer considered a major source of criteria air pollutants, the PM₁₀ emission limits imposed by previous permit are no longer necessary.

Unconditioned potential PM₁₀ emissions are below the major source threshold.” Therefore, the special conditions of 0598-004 were not included in the operating permit.

20) No Construction Permit Required Determination Project #1998-05-022, Issued June 10, 1998

21) No Construction Permit Required Determination Project #1998-07-117, Issued July 28, 1998

22) Construction Permit 1098-010, Issued September 23, 1998

This permit was issued for the construction of an oil fogging operation.

Special Conditions 1 - 3 for VOC were deemed no longer applicable according to Construction Permit 0799-024. Special Condition 1 of Construction Permit 0799-024 states, "This condition is intended to replace all existing VOC limits set by construction permits at this installation."

Therefore, the special conditions of Construction Permit 1098-010 were not included in the operating permit.

23) Construction Permit 1298-001, Issued November 12, 1998

This permit was issued for the construction of four Synchrowave 250 TIG welding systems and (2) MIG welders. This permit contains no special conditions.

24) Construction Permit 1198-001, Issued November 2, 1998

This permit was issued for the re-installation of an old paint system.

Special Conditions 1 - 2 for VOC were deemed no longer applicable according to Construction Permit 0799-024. Special Condition 1 of Construction Permit 0799-024 states, "This condition is intended to replace all existing VOC limits set by construction permits at this installation."

Therefore, the special conditions of Construction Permit 1198-001 were not included in the operating permit.

Special Condition 3 and 4 are not included since Permit Condition PW003 sets a HAP limitation that is stricter.

25) Construction Permit 0199-019, Issued December 30, 1998

This permit was issued for the removal of an electrostatic precipitator as a control device for two welders and the addition of one robot welder and a change to a high VOC content lubricant for a fin machine.

Special Conditions 1 - 3 for VOC were deemed no longer applicable according to Construction Permit 0799-024. Special Condition 1 of Construction Permit 0799-024 states, "This condition is intended to replace all existing VOC limits set by construction permits at this installation."

Therefore, the special conditions of Construction Permit 0199-019 were not included in the operating permit.

26) Construction Permit 0799-024, Issued July 28, 1999

This construction permit was issued for a new Voss fin machine and modification of existing subassembly welding booths.

This permit contains special conditions which limit the installation to emit less than 250 tons of VOC in any consecutive 12 month period. The installation has voluntarily accepted a stricter limit of 100 tons in any consecutive 12 month period which is applied in Permit Condition PW002 therefore none of the special conditions from this construction permit appear in this operating permit.

27) Construction Permit 1099-013, Issued September 24, 1999

This permit was issued for the installation of four new backsoldering stands. This permit contains no special conditions.

28) No Construction Permit Required Determination Project #1999-11-095, Issued December 10, 1999

29) No Construction Permit Required Determination Project #2000-08-014

This no construction permit required determination was issued for the removal of electrostatic control devices.

30) Construction Permit 122001-015, Issued December 7, 2001

This permit was issued for a new backsolder (after robot) machine. This permit contains special conditions which appear in this operating permit in Permit Condition EP84-001

31) No Construction Permit Required Project #2002-05-114, Issued November 25, 2002

This no construction permit required determination was issued for a heat cleaning oven.

32) Construction Permit 072003-008, Issued June 12, 2003

This permit was issued for the installation of a core bake oven, an aqueous cleaning line, a solder pour machine, a robotic welder, two seaming stations, a fin machine and two beta welders. This permit contains no special conditions.

33) No Construction Permit Required Project #2005-04-066, Issued June 9, 2005

This no construction permit required determination was issued for the removal of electrostatic precipitator control devices from the Stiffner Welding Machine and the Robot Weld Repair Booth and reroute of the exhaust from within the building to the outside via stacked discharge

34) Construction Permit 122006-010, Issued December 12, 2006

This permit was issued for the addition of a bolted radiator plate fin product line. None of the equipment within this permit was ever installed therefore no conditions are included in this operating permit.

35) Construction Permit 122008-004, Issued December 10, 2008

This permit was issued for the addition of a radiator product line.

EP-97 Large Dry-off Oven and EP-101 Paint Cure Oven were not installed. Only five of the eight proposed Wire Welders were installed under EP-100. Only four of the five proposed Fin Machines were installed under EP-99.

This permit contains special conditions which appear in this operating permit in Permit Condition EP98-001.

36) No Construction Permit Required Determination Project #2009-09-052, Issued November 2, 2009

This no construction permit required determination was issued for three beta welders, beta weld repair, and a plasma welder.

37) No Construction Permit Required Determination Project #2010-09-015, Issued October 5, 2010

This no construction permit required determination was issued to move 15 fin machines to a new warehouse facility.

38) Construction Permit 102011-007, Issued October 11, 2011

This permit was issued for the addition of one solder dip pot and two brazing booths. This permit contains special conditions which appear in this operating permit in Permit Condition EP104-001

New Source Performance Standards (NSPS) Applicability

None

Maximum Achievable Control Technology (MACT) Applicability

40 CFR Part 63 Subpart T, *National Emission Standards for Halogenated Solvent Cleaning*

The installation does have a cleaning line, but the solvents used in the process are sulfuric acid and an alkaline based solvent with sodium hydroxide as the major component. These solvents are not covered by Subpart T, therefore the MACT was not included in the operating permit.

40 CFR Part 63 Subpart HHHHHH, *National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources*

This rule does not apply because the installation does not coat motor vehicles or mobile equipment and the coatings do not contain compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd).

40 CFR Part 63 Subpart MMMM, *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*

This rule only applies to major sources of HAP. The installation is an area source of HAP, therefore this rule does not apply.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

40 CFR Part 61, Subpart M – *National Emission Standards for Asbestos* is applicable to the installation and has been applied within this permit (see Section IV. Core Permit Requirements).

Greenhouse Gas Emissions

On May 13, 2010, EPA issued the GHG Tailoring Rule which set the major source threshold for CO₂e to be 100,000 tons per year within 40 CFR Part 70. As of July 1, 2011, all Title V operating permits are required to include GHG emissions. Potential emissions of greenhouse gases (CO₂e) for this installation are calculated to be 19,567 tons, classifying the installation as a minor source of GHGs.

This source is not subject to 40 CFR Part 98 - *Mandatory Greenhouse Gas Reporting Rule*. In addition, Missouri regulations do not require the installation to report CO₂ emissions in their Missouri Emissions Inventory Questionnaire; therefore, the installation's actual CO₂ emissions were not included within this permit.

Updated Potential to Emit for the Installation

Pollutant	Potential to Emit (tons/yr)
CO	13.61
CO ₂ e	19,567
HAP	25
NO _x	16.21
PM ₁₀	17.67
PM _{2.5}	8.78
SO _x	0.10
VOC	100

Other Regulatory Determinations

None

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons.

- 1) The specific pollutant regulated by that rule is not emitted by the installation.
- 2) The installation is not in the source category regulated by that rule.
- 3) The installation is not in the county or specific area that is regulated under the authority of that rule.

- 4) The installation does not contain the type of emission unit which is regulated by that rule.
- 5) The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

Colin Janssen, EIT

Mr. Scott Miller
Modine Manufacturing Company
1502 South Country Club Drive
Jefferson City, MO 65109

Re: Modine Manufacturing Company, 051-0032
Permit Number: **OP2012-052**

Dear Mr. Miller:

Enclosed with this letter is your intermediate operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.078.16 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty (30) days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If you send your appeal by registered or certified mail, we will deem it filed on the date you mailed it. If you send your appeal by a method other than registered or certified mail, we will deem it filed on the date the AHC receives it.

If you have any questions or need additional information regarding this permit, please do not hesitate to contact Colin Janssen at the Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield, P.E.
Operating Permit Unit Chief

MJS/cjk

Enclosures

c: Northeast Regional Office
PAMS File: 2012-01-073