



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: OP2013-069
Expiration Date: DEC 04 2018
Installation ID: 097-0117
Project Number: 2012-02-065

Installation Name and Address

EaglePicher Technologies LLC
C & Porter Streets
Joplin, MO 64801
Jasper County

Parent Company's Name and Address

OM Group, Inc.
127 Public Square, 1500 Key Tower
Cleveland, OH 44114

Installation Description:

EaglePicher Technologies LLC operates a special purpose lithium-ion battery manufacturing plant in Joplin, Missouri. The facility is a synthetic minor source of Hazardous Air Pollutants (HAP), Methanol (67-56-1), and Trichloroethylene (79-01-6).

DEC 05 2013

Effective Date


Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

EaglePicher Technologies LLC operates a special purpose battery manufacturing plant in Joplin, Missouri. The facility is a synthetic minor source of combined HAP, Methanol (67-56-1), and Trichloroethylene (79-01-6).

Reported Air Pollutant Emissions, tons per year					
Pollutants	2011	2010	2009	2008	2007
Particulate Matter \leq Ten Microns (PM ₁₀)	0.05	0.01	0.01	0.01	0.01
Sulfur Oxides (SO _x)	0.01	0.01	0.01	0.01	0.01
Nitrogen Oxides (NO _x)	1.00	1.00	1.00	0.88	1.09
Volatile Organic Compounds (VOC)	7.94	4.95	4.95	3.67	2.04
Carbon Monoxide (CO)	0.21	0.21	0.21	0.18	0.22
Hazardous Air Pollutants (HAPs)	4.32	4.99	4.99	2.96	2.63
Methanol (67-56-1)	3.84	2.47	2.47	2.57	0.75
Dichloromethane (75-09-2)	0.48	1.15	1.15	0.07	1.03
Trichloroethylene (79-01-6)	-	0.94	0.94	0.30	0.54
Methyl Methacrylate (80-62-6)	-	0.43	0.43	0.03	0.30

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.

Emission Unit	Description
EP104	TCE Vapor Degreaser Unit

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.

Emission Unit	Description
EP101	800 gallon Fixed Roof Methanol Storage Tank
EP102	Methanol Room - Moisture Removal
EP103	Part Cleaning
EP105	Solder Flux Cleaning
EP106	4.5 MMBtu/hr Natural Gas Fired Boiler
EP107	0.36 MMBtu/hr Natural Gas Fired Boiler
EP108	Dehumidifying and Space Heating
EP109	Cell Case Assembly
-	Battery Destruction Test Unit #1
-	Battery Destruction Test Unit #2

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 10-6.020(2)(I)23 and 10 CSR 10-6.065(5)(C)2 Voluntary Limitation(s)

Emission Limitation:

1. The permittee shall emit less than 10.0 tons of each individual HAP from the entire installation in any consecutive 12-month period.
2. The permittee shall emit less than 25.0 tons of combined HAPs from the entire installation in any consecutive 12-month period.

Monitoring/Recordkeeping:

1. The permittee shall use Attachment A or an equivalent form approved by the Air Pollution Control Program to calculate actual monthly individual and combined HAP emissions and actual 12-month rolling total individual and combined HAP emissions from the entire installation.
2. The permittee shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri 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 the end of the month during records indicate an exceedance of an individual HAP emission limitation.
2. The permittee shall report any deviations from the requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

PERMIT CONDITION PW002

10 CSR 10-6.060 Construction Permits Required
Construction Permit 012007-015, Issued January 24, 2007

Operational Limitation:

Special Condition 1: The permittee shall keep solvents and cleaning solutions in sealed containers whenever the materials are not in use. The permittee shall provide and maintain suitable, easily read, permanent markings on all solvent and cleaning solution containers at the facility.

Reporting:

The permittee shall report any deviations from the requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the CFR and 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 001	
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations 40 CFR Part 63, Subpart T – National Emissions Standards for Halogenated Solvent Cleaning	
Emission Unit	Description
EP104	TCE Vapor Degreaser Unit

Standards:

1. Except as provided in § 63.464 for all cleaning machines, the permittee shall ensure that each batch vapor cleaning machine conforms to the following design requirements: [§63.463(a)]
 - a) Each cleaning machine shall be designed or operated to meet the following control equipment or technique requirements: [§63.463(a)(1)]
 - i) An idling and downtime mode cover, as described in §63.463(d)(1)(i), that may be readily opened or closed, that completely covers the cleaning machine openings when in place, and is free of cracks, holes, and other defects. [§63.463(a)(1)(i)]
 - ii) A reduced room draft as described in §63.463(e)(2)(ii). [§63.463(a)(1)(ii)]
 - b) Each cleaning machine shall have a freeboard ratio of 0.75 or greater. [§63.463(a)(2)]
 - c) Each cleaning machine shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minute (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts. [§63.463(a)(3)]
 - d) Each vapor cleaning machine shall be equipped with a device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils. This requirement does not apply to a vapor cleaning machine that uses steam to heat the solvent. [§63.463(a)(4)]
 - e) Each vapor cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser. [§63.463(a)(5)]
 - f) Each vapor cleaning machine shall have a primary condenser. [§63.463(a)(6)]
 - g) Each cleaning machine that uses a lip exhaust shall be designed and operated to route all collected solvent vapors through a properly operated and maintained carbon adsorber that meets the requirements of §63.463(e)(2)(vii). [§63.463(a)(7)]
2. Except as provided in §63.464, the permittee shall comply with §63.463(b)(1). [§63.463(b)]
 - a) Each batch vapor cleaning machine with a solvent/air interface area of 1.21 square meters (13 square feet) or less shall comply with the requirements specified in either §63.463(b)(1)(i) or (ii). [§63.463(b)(1)]
 - i) Employ one of the control combinations listed in Table 1 of 40 CFR Part 63, Subpart T or other equivalent methods of control as determined using the procedure in §63.469, equivalent methods of control. [§63.463(b)(1)(i)]
 - ii) Demonstrate that the solvent cleaning machine can achieve and maintain an idling emission limit of 0.22 kilograms per hour per square meter (0.045 pounds per hour per square foot) of solvent/air interface area as determined using the procedures in §63.465(a) and Appendix A to 40 CFR Part 63. [§63.463(b)(1)(ii)]

3. Except as provided in §63.464 for all cleaning machines, the permittee shall meet all of the following required work and operational practices: [§63.463(d)]
 - a) Control air disturbances across the cleaning machine opening(s) by incorporating the following control equipment or techniques: [§63.463(d)(1)]
 - i) Cover(s) to each solvent cleaning machine shall be in place during the idling mode, and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place. [§63.463(d)(1)(i)]
 - ii) A reduced room draft as described in §63.463(e)(2)(ii). [§63.463(d)(1)(ii)]
 - b) The parts baskets or the parts being cleaned in an open-top batch vapor cleaning machine shall not occupy more than 50 percent of the solvent/air interface area unless the parts baskets or parts are introduced at a speed of 0.9 meters per minute (3 feet per minute) or less. [§63.463(d)(2)]
 - c) Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine). [§63.463(d)(3)]
 - d) Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved by the Administrator. [§63.463(d)(4)]
 - e) Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped. [§63.463(d)(5)]
 - f) During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater. [§63.463(d)(6)]
 - g) During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off. [§63.463(d)(7)]
 - h) When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface. [§63.463(d)(8)]
 - i) Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the Administrator's satisfaction to achieve the same or better results as those recommended by the manufacturer. [§63.463(d)(9)]
 - j) Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning procedures in Appendix A to 40 CFR Part 63 if requested during an inspection by the Administrator. [§63.463(d)(10)]
 - k) Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container. [§63.463(d)(11)]
 - l) Sponges, fabric, wood, and paper products shall not be cleaned. [§63.463(d)(12)]
4. Each solvent cleaning machine complying with §63.463(b) shall comply with the following requirements: [§63.463(e)]
 - a) Conduct monitoring of each control device used to comply with §63.463 as provided in §63.466. [§63.463(e)(1)]
 - b) Determine during each monitoring period whether each control device used to comply with these standards meets the following requirements: [§63.463(e)(2)]

- i) If a freeboard refrigeration device is used to comply with these standards, the permittee shall ensure that the chilled air blanket temperature (in °F), measured at the center of the air blanket, is no greater than 30 percent of the solvent's boiling point. [§63.463(e)(2)(i)]
 - ii) If a superheated vapor system is used to comply with these standards, the permittee shall comply with the following requirements: [§63.463(e)(2)(vi)]
 - (1) Ensure that the temperature of the solvent vapor at the center of the superheated vapor zone is at least 10°F above the solvent's boiling point. [§63.463(e)(2)(vi)(A)]
 - (2) Ensure that the manufacturer's specifications for determining the minimum proper dwell time within the superheated vapor system is followed. [§63.463(e)(2)(vi)(B)]
 - (3) Ensure that parts remain within the superheated vapor for at least the minimum proper dwell time. [§63.463(e)(2)(vi)(C)]
 - c) If any of the requirements of §63.463(e)(2) are not met, determine whether an exceedance has occurred using the following criteria: [§63.463(e)(3)]
 - i) An exceedance has occurred if the requirements of §63.463(e)(2)(vi)(B) or (C) have not been met. [§63.463(e)(3)(i)]
 - ii) An exceedance has occurred if the requirements of §63.463(e)(2)(i) or (vi)(A) have not been met and are not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The parameter shall be remeasured immediately upon adjustment or repair and demonstrated to be within required limits. [§63.463(e)(3)(ii)]
 - d) The permittee shall report all exceedances and all corrections and adjustments made to avoid an exceedance as specified in §63.468(h). [§63.463(e)(4)]
5. Each batch vapor cleaning machine complying with the idling emission limit standards in §63.463(b)(1)(ii) shall comply with the following requirements: [§63.463(f)]
- a) Conduct an initial performance test to comply with the following requirements: [§63.463(f)(1)]
 - i) Demonstrate compliance with the applicable idling emission limit. [§63.463(f)(1)(i)]
 - ii) Establish parameters that will be monitored to demonstrate compliance. If a control device is used that is listed in §63.463(e)(2), then the requirements for that control device as listed in §63.463(e)(2) shall be used unless the permittee can demonstrate to the Administrator's satisfaction that an alternative strategy is equally effective. [§63.463(f)(1)(ii)]
 - b) Conduct the periodic monitoring of the parameters used to demonstrate compliance as described in §63.466(f). [§63.463(f)(2)]
 - c) Operate the solvent cleaning machine within parameters identified in the initial performance test. [§63.463(f)(3)]
 - d) If any of the requirements in §63.463(f)(1) through (3) are not met, determine whether an exceedance has occurred using the following criteria: [§63.463(f)(4)]
 - i) If using a control listed in §63.463(e), the permittee shall comply with the appropriate parameter values in §63.463(e)(2) and the exceedance delineations in §63.463(e)(3)(i) and (ii). [§63.463(f)(4)(i)]
 - ii) If using a control not listed in §63.463(e), the permittee shall indicate whether the exceedance of the parameters that are monitored to determine the proper functioning of this control would be classified as an immediate exceedance or whether a 15 day repair period would be allowed. This information shall be submitted to the Administrator for approval. [§63.463(f)(4)(ii)]
 - e) The permittee shall report all exceedances and all corrections and adjustments made to avoid an exceedance as specified in §63.468(h). [§63.463(f)(5)]

Table 1 to 40 CFR Part 63, Subpart T — *Control Combinations for Batch Vapor Solvent Cleaning Machines With a Solvent/Air Interface Area of 1.21 Square Meters (13 Square Feet) or Less*

Option	Control combinations
1	Working-mode cover, freeboard ratio of 1.0, superheated vapor.
2	Freeboard refrigeration device, superheated vapor.
3	Working-mode cover, freeboard refrigeration device.
4	Reduced room draft, freeboard ratio of 1.0, superheated vapor.
5	Freeboard refrigeration device, reduced room draft.
6	Freeboard refrigeration device, freeboard ratio of 1.0.
7	Freeboard refrigeration device, dwell.
8	Reduced room draft, dwell, freeboard ratio of 1.0.
9	Freeboard refrigeration device, carbon adsorber.
10	Freeboard ratio of 1.0, superheated vapor, carbon adsorber.

Note: Unlike most of the control techniques available for complying with 40 CFR Part 63, Subpart T, carbon adsorbers are not considered to be a pollution prevention measure. Use of such units may impose additional cost and burden for a number of reasons. First, carbon adsorption units are generally more expensive than other controls listed in the options. Second, these units may present cross-media impacts such as effluent discharges if not properly operated and maintained, and spent carbon beds have to be disposed of as hazardous waste. When making decisions about what controls to install on halogenated solvent cleaning machines to meet the requirements of this rule, all of these factors should be weighed and pollution prevention measures are encouraged wherever possible.

Alternative Standards:

The permittee shall refer to §63.464 for alternative standards and requirements under 40 CFR Part 63, Subpart T.

Test Methods:

The permittee shall refer to §63.465 for test methods applicable under 40 CFR Part 63, Subpart T.

Monitoring:

1. Except as provided in §63.466(g), each batch vapor cleaning machine complying with the equipment standards in §63.463(b)(1)(i) shall conduct monitoring and record the results on a weekly basis for the control devices, as appropriate, specified as follows: [§63.466(a)]
 - a) If a freeboard refrigeration device is used to comply with these standards, the permittee shall use a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling mode. [§63.466(a)(1)]
 - b) If a superheated vapor system is used to comply with these standards, the permittee shall use a thermometer or thermocouple to measure the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode. [§63.466(a)(2)]
2. Except as provided in §63.466(g), each batch vapor cleaning machine complying with the equipment standards of §63.463(b)(1)(i) shall conduct monitoring and record the results on a monthly basis for the control devices, as appropriate, specified as follows: [§63.466(b)]
 - a) If a cover (working-mode, downtime-mode, and/or idling-mode cover) is used to comply with these standards, the permittee shall conduct a visual inspection to determine if the cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes, and other defects. [§63.466(b)(1)]
 - b) If a dwell is used, the permittee shall determine the actual dwell time by measuring the period of time that parts are held within the freeboard area of the solvent cleaning machine after cleaning. [§63.466(b)(2)]

3. Except as provided in §63.466(g), each batch vapor cleaning machine complying with the equipment or idling standards in §63.463 shall monitor the hoist speed as follows: [§63.466(c)]
 - a) The permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute). [§63.466(c)(1)]
 - b) The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the permittee may begin monitoring the hoist speed quarterly. [§63.466(c)(2)]
 - c) If an exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to monthly until another year of compliance without an exceedance is demonstrated. [§63.466(c)(3)]
 - d) If the permittee can demonstrate to the Administrator's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance. [§63.466(c)(4)]
4. Each batch vapor cleaning machine complying with the idling emission limit standards of §63.463(b)(1)(ii) shall comply with the following requirements: [§63.466(f)]
 - a) If using controls listed in §63.466(a) through (c), the permittee shall comply with the monitoring frequency requirements in §63.466(a) through (c). [§63.466(f)(1)]
 - b) If using controls not listed in §63.466(a) through (e), the permittee shall establish the monitoring frequency for each control and submit it to the Administrator for approval in the initial test report. [§63.466(f)(2)]
5. If the permittee is using a control device listed in §63.466(a) through (e), the permittee can use alternative monitoring procedures approved by the Administrator. [§63.466(g)]

Recordkeeping:

1. Each batch vapor cleaning machine complying with the provisions of §63.463 shall maintain records in written or electronic form specified in §63.467(a)(1) through (7) for the lifetime of the machine. [§63.467(a)]
 - a) Owner's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment. [§63.467(a)(1)]
 - b) The date of installation for the solvent cleaning machine and all of its control devices. If the exact date for installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted. [§63.467(a)(2)]
 - c) If a dwell is used to comply with these standards, records of the tests required in §63.465(d) to determine an appropriate dwell time for each part or parts basket. [§63.467(a)(3)]
 - d) Each batch vapor cleaning machine complying with the idling emission limit standards of §63.463(b)(1)(ii) shall maintain records of the initial performance test, including the idling emission rate and values of the monitoring parameters measured during the test. [§63.467(a)(4)]
 - e) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of 40 CFR Part 63, Subpart T. [§63.467(a)(5)]
2. Each batch vapor cleaning machine complying with §63.463 shall maintain records specified in §63.467(b)(1) through (4) either in electronic or written form for a period of five years. [§63.467(b)]
 - a) The results of control device monitoring required under §63.466. [§63.467(b)]
 - b) Information on the actions taken to comply with §63.463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs

made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. [§63.467(b)(2)]

- c) Estimates of annual solvent consumption for each solvent cleaning machine. [§63.467(b)(3)]
3. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.

Reporting:

1. Each batch vapor cleaning machine complying with the provisions of §63.463 shall submit an annual report by February 1 of the year following the one for which the reporting is being made. This report shall include the following: [§63.468(f)]
 - a) A signed statement from the responsible official stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in §63.463(d)(10)." [§63.468(f)(1)]
 - b) An estimate of solvent consumption for each solvent cleaning machine during the reporting period. [§63.468(f)(2)]
2. Each batch vapor cleaning machine shall submit an exceedance report to the Administrator semi-annually except when, the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the permittee shall follow a quarterly reporting format until a request to reduce reporting frequency under §63.468(i) is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the following applicable information: [§63.468(h)]
 - a) Information on the actions taken to comply with §63.463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. [§63.468(h)(1)]
 - b) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken. [§63.468(h)(2)]
 - c) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report. [§63.468(h)(3)]
3. If the permittee is required to submit an exceedance report on a quarterly (or more frequent) basis, the permittee may reduce the frequency of reporting to semi-annually if the following conditions are met: [§63.468(i)]
 - a) The source has demonstrated a full year of compliance without an exceedance. [§63.468(i)(1)]
 - b) The permittee continues to comply with all relevant recordkeeping and monitoring requirements specified 40 CFR Part 63, Subpart A and in 40 CFR Part 63, Subpart T. [§63.468(i)(2)]
 - c) The Administrator does not object to a reduced frequency of reporting for the affected source. [§63.468(i)(3)]
4. The permittee shall report any deviations from the requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

Facility-wide Standards:

1. Each affected facility shall comply with the requirements specified in §63.471. For purposes of this section, affected facility means all solvent cleaning machines. [§63.471(a)]
2. Each affected facility shall maintain a log of solvent additions and deletions for each solvent cleaning machine. [§63.471(b)(1)]

3. The permittee shall ensure that the total emissions of TCE at the affected facility are equal to or less than the applicable facility-wide 12-month rolling total emission limit presented in Table 1 of §63.471 as determined using the procedures in §63.471(c). [§63.471(b)(2)]
4. The permittee shall on the first operating day of every month, demonstrate compliance with the applicable facility-wide emission limit on a 12-month rolling total basis using the procedures in §63.471(c)(1) through (5). For purposes of this paragraph, “each solvent cleaning machine” means each solvent cleaning machine that is part of an affected facility regulated by §63.471. [§63.471(c)]
 - a) The permittee shall, on the first operating day of every month, ensure that each solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soiled materials. A fill line shall be indicated during the first month the measurements are made. The solvent level within the machine shall be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in §63.471(c)(2) and (3). The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations. [§63.471(c)(1)]
 - b) The permittee shall, on the first operating day of the month, using the records of all solvent additions and deletions for the previous month, determine solvent emissions (E_{unit}) from each solvent cleaning machine using Equation 10:

$$E_{\text{unit}} = SA_i - LSR_i - SSR_i \quad (\text{Eq. 10})$$

Where:

E_{unit} = the total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent month i , (kilograms of solvent per month).

SA_i = the total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent month i , (kilograms of solvent per month).

LSR_i = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent month i , (kilograms of solvent per month).

SSR_i = the total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste, obtained as described in §63.471(c)(3), during the most recent month i , (kilograms of solvent per month). [§63.471(c)(2)]

- c) The permittee shall, on the first operating day of the month, determine SSR_i using one of the following methods: [§63.471(c)(3)]
 - i) From tests conducted using EPA reference method 25d. [§63.471(c)(3)(i)]
 - ii) By engineering calculations included in the compliance report. [§63.471(c)(3)(ii)]
- d) The permittee shall on the first operating day of the month, after 12 months of emissions data are available, determine the 12-month rolling total emissions, ET_{unit} , for the 12-month period ending with the most recent month using Equation 11:

$$ET_{\text{unit}} = \left[\sum_{j=1}^{12} E_{\text{unit}} \right] \quad (\text{Eq. 11})$$

Where:

ET_{unit} = the total halogenated HAP solvent emissions over the preceding 12 months, (kilograms of solvent emissions per 12-month period).

E_{unit} = halogenated HAP solvent emissions for each month (j) for the most recent 12 months (kilograms of solvent per month). [§63.471(c)(4)]

- e) The permittee shall on the first operating day of the month, after 12 months of emissions data are available, determine the 12-month rolling total emissions, ET_{facility} , for the 12-month period ending with the most recent month using Equation 12:

$$ET_{\text{facility}} = \left[\sum_{j=1}^i ET_{\text{unit}} \right] \quad (\text{Eq. 12})$$

Where:

ET_{facility} = the total halogenated HAP solvent emissions over the preceding 12 months for all cleaning machines at the facility, (kilograms of solvent emissions per 12-month period).

ET_{unit} = the total halogenated HAP solvent emissions over the preceding 12 months for each unit j , where i equals the total number of units at the facility (kilograms of solvent emissions per 12-month period). [§63.471(c)(5)]

5. If the applicable facility-wide emission limit presented in Table 1 of §63.471(b)(2) is not met, an exceedance has occurred. All exceedances shall be reported as required in §63.468(h). [§63.471(d)]
6. The permittee shall maintain records specified in §63.471(e)(1) through (3) either in electronic or written form for a period of five years. For purposes of this paragraph, “each solvent cleaning machine” means each solvent cleaning machine that is part of an affected facility regulated by §63.471. [§63.471(e)]
 - a) The dates and amounts of solvent that are added to each solvent cleaning machine. [§63.471(e)(1)]
 - b) The solvent composition of wastes removed from each solvent cleaning machines as determined using the procedure described in §63.471(c)(3). [§63.471(e)(2)]
 - c) Calculation sheets showing how monthly emissions and the 12-month rolling total emissions from each solvent cleaning machine were determined, and the results of all calculations. [§63.471(e)(3)]
7. The permittee shall submit a solvent emission report every year. This solvent emission report shall contain the following: [§63.471(h)]
 - a) The average monthly solvent consumption for the affected facility in kilograms per month. [§63.471(h)(1)]
 - b) The 12-month rolling total solvent emission estimates calculated each month using the method as described in §63.471(c). [§63.471(h)(2)]
 - c) This report can be combined with the annual report required in § 63.468(f) into a single report for each facility. [§63.471(h)(3)]

Table 1 to §63.471 — *Facility-wide Emission Limits for Facilities With Solvent Cleaning Machines*

Solvents emitted	Facility-wide annual emission limits in kg—for general population degreasing machines	Facility-wide annual emission limit in kg for military depot maintenance facilities
TCE only	14,100	23,500

General Provisions:

The permittee shall refer to Appendix B to 40 CFR Part 63, Subpart T for 40 CFR Part 63, Subpart A applicability.

IV. Core Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the CFR, 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 premise having not more than four dwelling units, provided that the refuse originates on the same premises.
 - b) Yard waste.
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 permittee fails to comply with the conditions or any provisions of the permit.
4. EaglePicher Technologies LLC 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 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 EaglePicher Technologies LLC 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(2)(N)11, the director shall not issue a permit under 10 CSR 10-6.045 unless the permittee 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. 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 §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 §60.2245 - §60.2260, sources shall 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 §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 §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 §§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 18 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)] 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)]

**10 CSR 10-6.080 Emission Standards for HAP 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 10-6.110 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 2014, 2017, 2020, and 2023 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(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 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 10-6.180 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 Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the 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 40 CFR Part 82, 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 MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B – Servicing of MVACs. The term "motor vehicle" as used in 40 CFR Part 82, Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in 40 CFR Part 82, 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 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 HAP"; 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 CFR and 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 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 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 10 CSR 10-6.065(5)(C)1 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 Risk Management Plan Under §112(r)

- 1. 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 §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:
 - a) June 21, 1999;
 - b) Three years after the date on which a regulated substance is first listed under §68.130; or
 - c) 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, (C)1, and (C)3 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 Emergency Provisions

1. An emergency or upset as defined in 10 CSR 10-6.065(5)(C)1 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 Blvd., 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)39 Responsible Official

The application utilized in the preparation of this permit was signed by Ms. Emily S. Russell, Senior Counsel. 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 permittee 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 permittee 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 Reopening-Permit for Cause

1. This permit may be reopened for cause if:
 - a) The Missouri Department of Natural Resources 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,
 - b) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
 - i) The permit has a remaining term of less than three years;
 - ii) The effective date of the requirement is later than the date on which the permit is due to expire; or
 - iii) 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,
 - c) 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 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.

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 March 11, 2012
2. 2011, 2010, 2009, 2008, and 2007 Emissions Inventory Questionnaires
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 System (FIRE)
5. Construction Permit 0797-011, Issued June 25, 1997
6. Construction Permit 012005-012, Issued January 10, 2005
7. Construction Permit 012007-015, Issued January 24, 2007
8. No Construction Permit Required Determination, Issued August 10, 2012

Other Air Regulations Determined Not to Apply to the Operating Permit

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

10 CSR 10-6.100 *Alternate Emission Limits* is not applicable because the installation is in an ozone attainment area.

Construction Permits

Construction Permit 0797-011, Issued June 25, 1997:

- This de minimis construction permit is for the addition of one lithium ion battery process to the existing major source.
- Special Condition 1 requires the installation to comply with 10 CSR 10-6.165 *Restriction of Emission of Odors* (see Section IV Core Permit Requirements).

Construction Permit 012005-012, Issued January 10, 2005:

- This de minimis construction permit is for the installation of a new trichloroethylene (79-01-6) solvent degreaser.
- Special Condition 1 requires EP104 TCE Vapor Degreaser Unit to comply with 40 CFR Part 63, Subpart T (see Permit Condition 001).
- Special Condition 2 requires EP104 TCE Vapor Degreaser Unit to emit less than 10.0 tons per year of Trichloroethylene (79-01-6). This special condition was not included in the permit as it is less

stringent than Permit Condition PW001 which requires the entire installation to emit less than 10.0 tons of Trichloroethylene (79-01-6).

Construction Permit 012007-015, Issued January 24, 2007:

- This de minimis construction permit is for the installation of a new 24,000 ft² lithium ion cell and battery manufacturing facility.
- Special Condition 1 has been applied within this permit (see Permit Condition PW002).

No Construction Permit Required Determination, Issued August 10, 2012:

- This no construction permit required determination is for the installation of two battery destruction test units primarily for research and development.

New Source Performance Standards Applicability

40 CFR Part 60, Subpart Dc – *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units* is not applicable to the installation and has not been applied within this permit. The largest boiler at the installation is on 4.5 MMBtu/hr below the 10 MMBtu/hr threshold of §60.40c(a).

40 CFR Part 60, Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984* is not applicable to the installation and has not been applied within this permit. EP101 Methanol Storage Tank has a capacity of 800 gallons which is below the 75 m³ (19,813 gallons) threshold of §60.110b(a).

40 CFR Part 60, Subpart KK – *Standards of Performance for Lead-Acid Battery Manufacturing Plants* is not applicable to the installation and has not been applied within this permit. The installation produces lithium ion batteries

Maximum Achievable Control Technology Applicability

40 CFR Part 63, Subpart T – *National Emissions Standards for Halogenated Solvent Cleaning* is applicable to the installation and has been applied within this permit (see Permit Condition 001).

40 CFR Part 63, Subpart JJJJJ – *National Emission Standards for HAP for Industrial, Commercial, and Institutional Boilers Area Sources* is not applicable to the installation and has not been applied within this permit. EP106 and EP107 Boilers meet the definition of *gas-fired boiler* at §63.11237 and are exempt from this regulation per §63.11195(e).

National Emission Standards for Hazardous Air Pollutants 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).

Other Regulatory Determinations

10 CSR 10-6.170 *Restriction of PM to the Ambient Air Beyond the Premises of Origin* and 10 CSR 10-6.220 *Restriction of Emission of Visible Air Contaminants* are applicable to the installation, but were not applied within this permit. Although the installation is subject to this regulation, plantwide potential particulate emissions are 0.14 lb/hr (0.63 tpy); therefore, no monitoring, recordkeeping, or reporting is required from the installation at this time.

Update Installation Potential to Emit (PTE)

Pollutant	Unconditioned PTE ¹ (tpy)	Conditioned PTE ¹ (tpy)
CO	2.66	N/A
GHG (CO ₂ e)	3,827.55	N/A
NO _x	3.17	N/A
PM	0.63	N/A
PM ₁₀	0.63	N/A
PM _{2.5}	0.63	N/A
SO _x	0.02	N/A
VOC	42.52	N/A
HAP	40.64	<25.0
Methanol (67-56-1)	17.69	<10.0
Trichloroethylene (79-01-6)	16.75	<10.0
Dichloromethane (75-09-2)	5.24	<10.0
Methyl Methacrylate (80-62-6)	0.90	<10.0
Hexane (110-54-3)	0.06	<10.0

¹Potential emissions are based upon 8,760 hours of uncontrolled annual operation.

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:

Alana L. Rugen, EIT
 Environmental Engineer II

Ms. Emily S. Russell
EaglePicher Technologies LLC
P.O. Box 47
Joplin, MO 64802

Re: EaglePicher Technologies LLC, 097-0117
Permit Number: **OP2013-069**

Dear Ms. Russell:

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 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 Alana Rugen at the 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/ark

Enclosures

c: Southwest Regional Office
PAMS File: 2012-02-065

MEMORANDUM

DATE: October 24, 2013

TO: 2012-02-065, EaglePicher Technologies LLC (097-0117)

FROM: Alana L. Rugen, EIT
Environmental Engineer II

SUBJECT: Response to Public Comments

The draft Intermediate Operating Permit for EaglePicher Technologies LLC (Project 2012-02-065, County-Plant ID: 097-0117) was placed on public notice as of September 23, 2013, for a 30-day comment period. The public notice was published on the Department's web page at: <http://www.dnr.mo.gov/env/apcp/PermitPublicNotices.htm> on Monday, September 23, 2013. The Air Pollution Control Program did not receive any comments from either the public or the applicant during the 30-day comment period.

ALR/kjc