



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: OP2012-019A

Expiration Date: May 10, 2017

Installation ID: 510-0808

Project Number: 2014-02-028

Installation Name and Address

Chemisphere Corporation
2101 Clifton Avenue
St. Louis, MO 63139
City of St. Louis

Parent Company's Name and Address

N/A

Installation Description:

Chemisphere Corporation is a chemical distribution facility that receives and ships chemicals for customers. The equipment at the installation includes various storage tanks, blending tanks, container filling operations, rail unloading racks, and truck loading/unloading racks.

The installation has the potential to be a major source for volatile organic compounds (VOCs) and hazardous air pollutants (HAPs). However, the installation, in their Intermediate Operating Permit application, is voluntarily limiting the plant wide emissions to less than 100 tons per year for VOCs, less than 10 tons per year for each HAP, and less than 25 tons per year for total HAPs, on a 12 month rolling average.

This installation is located in the City of St. Louis, a nonattainment area for the eight hour ozone standard and the PM_{2.5} standard and an attainment area for all other criteria pollutants.

for Michael Stausfeld
Prepared by: Berhanu A. Getahun
Operating Permit Unit

Kyra L. Moore
Director or Designee
Department of Natural Resources

MAR 29 2016

Effective Date

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Chemisphere Corporation is a chemical distribution facility that receives and ships chemicals for customers. The equipment at the installation includes various storage tanks, blending tanks, container filling operations, rail unloading racks, and truck loading/unloading racks.

The installation has the potential to be a major source for volatile organic compounds (VOCs) and hazardous air pollutants (HAPs). However, the installation, in their Intermediate Operating Permit application, is voluntarily limiting the plant wide emissions to less than 100 tons per year for VOCs, less than 10 tons per year for each HAP, and less than 25 tons per year for total HAPs, on a 12 month rolling average.

This installation is located in the City of St. Louis, a nonattainment area for the eight hour ozone standard and the PM2.5 standard and an attainment area for all other criteria pollutants.

Reported Air Pollutant Emissions, tons per year					
Pollutants	2013	2012	2011	2010	2009
Volatile Organic Compounds(VOC)	9.89	9.89	9.90	1.77	1.77
Hazardous Air Pollutants (HAPs)	6.59	6.59	2.00	1.74	1.74

Chemisphere Corporation received a renewed Intermediate State Operating Permit (OP2012-0192) on May 11, 2012. The installation has added additional processes since the issuance of the renewed permit. Three of the processes were permitted: K21 interior 600 gallon mix tank (Source Registration Permit SR12.008), and Ethanol Tanks R73 and R74 (New Source Review Permit No. 102013-010) and tanks R67 – R72 and R75 which did not require permit. The installation also requested to modify the VOC plant wide limit to 100 tons per year.

Following is the summery of the changes made to the OP2012-019.

- Update the Emission Units With/Without Limitations,
- Amend the emission limit in Permit Condition PW001; and
- Incorporate the Source Registration Permit conditions.

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 of Emission Unit
F01	Fill Line F01
F02	Fill Line F02
F03	Fill Line F03
F04	Fill Line F04
F05	Fill Line F05
R44	39,000 Gallon Ethanol Storage Tank
R54	1,000 Gallon Mineral Spirits Storage Tank
R56	3,700 Gallon Petroleum Distillate Storage Tank
R57	3,700 Gallon Petroleum Distillate Storage Tank
R58	39,700 Gallon Ethanol Storage Tank
R59	30,000 Gallon Methanol Storage Tank
R60	30,000 Gallon Aromatic 100 Storage Tank
R61	30,000 Gallon Acetone Storage Tank
R62	30,000 Gallon Acetone Storage Tank
K08	4,600 Gallon Mixing Tank
K09	7,800 Gallon Mixing Tank
K15	6,000 Gallon Mixing Tank
K16	6,000 Gallon Mixing Tank
K17	5,500 Gallon Mixing Tank
K19	7,800 Gallon Mix Tank
K20	7,800 Gallon Mix Tank

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 of Emission Unit
L1	Loading Rack with Six (6) pumps – All Chemicals
L2	Loading Rack for Tanks R44 & R58
L3	Loading Rack – Rail to Tank Trucks
R01 through R10	Ten (10) Above Ground, Vertical Fixed Roof Storage Tanks 20,000 Gallon Capacity (each)
R11 & R12	Two (2) Above Ground, Vertical Fixed Roof Storage Tanks 30,000 Gallon Capacity (each)

Emission Unit #	Description of Emission Unit
R13 through R22	Ten (10) Above Ground, Vertical Fixed Roof Storage Tanks 10,000 Gallon Capacity (each)
R23 through R36	Fourteen Ten (14) Above Ground Horizontal Storage Tanks 1,000 Gallon Capacity (each)
R37 & R38	Two (2) Above Ground, Vertical Fixed Roof Storage Tanks 1,660 Gallon Capacity (each)
R40	Above Ground Vertical Fixed Roof Storage Tank, 6,000 Gallon Capacity
R41 & R42	Two (2) Above Ground, Vertical Fixed Roof Storage Tanks 4,000 Gallon Capacity (each)
R45 & R46	Two (2) Above Ground, Vertical Fixed Roof Storage Tanks 6,000 Gallon water tanks
R47	Water Storage Tank – 5,000 Gallon Capacity
R53	One (1) Above ground, Vertical Fixed Roof Storage Tank 2,574 gallon hydrochloric acid tank
R63 through R65	Three (3) Above Ground, Vertical Fixed Roof Storage Tanks 17,000 Gallon Capacity (each)
R66	One (1) Above Ground, Vertical Fixed Roof Storage Tank 1,500 gallon caustic soda rayon grade tank
R67 through R70	Four (4) Above Ground, Vertical Fixed Roof Storage Tanks 30,000 Gallon Capacity (each) acetone tanks
R71	One (1) Above Ground, Vertical Fixed Roof Storage Tank 10,000 gallon capacity methyl acetate tank
R72	One (1) Above Ground, Vertical Fixed Roof Storage Tank 35,000 gallon capacity acetone tank
R73 & R74	Two (2) Above Ground, Vertical Fixed Roof Storage Tanks 35,000 Gallon Capacity (each) ethanol tanks
R75	One (1) Above Ground, Vertical Fixed Roof Storage Tank 35,000 gallon capacity acetone tank
K04	Above Ground Vertical Mix Tank – Stainless Steel Interior, 1,400 Gallon
K05	Above Ground Vertical Mix Tank – Stainless Steel Interior, 660 Gallon
K06	Above Ground Vertical Mix Tank – Stainless Steel Interior, 660 Gallon
K07	Above Ground Vertical Mix Tank – Stainless Steel Interior, 55 Gallon
K10	Above Ground Vertical Mix Tank – Stainless Steel Interior, 110 Gallon
K12	Above Ground Vertical Mix Tank – Stainless Steel Interior, 1,900 Gallon
K13	Above Ground Vertical Mix Tank – Stainless Steel Interior, 1,800 gallon
K21	600 Gallon Mix Tank – for Ethyl Acetate and Methanol
K22	300 Gallon Mobile Ethyl Acetate Mixing Tank

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. The plant wide conditions apply to all emission units at this installation. All emission units are listed in Section I under Emission Units with Limitations or Emission Units without Limitations.

Permit Condition PW001

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

Emission Limitation:

The Permittee shall emit into the atmosphere less than 100 tons of Volatile Organic Compounds (VOCs) from the entire installation in any consecutive 12-month period.

Monitoring/Recordkeeping:

The permittee shall maintain an accurate record of emissions of VOCs emitted into the atmosphere from this installation. The permittee shall record the monthly and running 12-month totals of the VOC emissions from this installation. Example form is attached as Attachment A (Plant-Wide Emissions Tracking Record). The permittee may use this form, or forms of its own, so long as the forms used will accurately demonstrate compliance with the VOC emission limitation (less than 100 tons in any consecutive 12-month period of VOCs).

Reporting:

The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than fifteen days after any exceedance or deviation from this permit condition.

Permit Condition PW002

10 CSR 10-6.065 Operating Permits
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 tons of any individual HAP in any consecutive 12-month period; and
- 2) The permittee shall emit less than 25 tons of any combination of HAPs in any consecutive 12-month period.

Monitoring/Recordkeeping:

The permittee shall maintain an accurate record of emissions of HAPs emitted into the atmosphere from this installation. Example forms are attached as Attachment B and C. The permittee may use these forms, or forms of its own, so long as the forms used will accurately demonstrate compliance with the HAPs emission limitation (less than 10 tons in any consecutive 12-month period of any individual HAP or less than 25 tons in any consecutive 12-month period of any combination of HAPs).

Reporting:

The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than fifteen days after any exceedance or deviation from this permit condition.

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.

F01, F02 and F03 – Filling Lines K15, K16 and K17 – Mixing Tanks	
Emission Unit	Description
F01	Fill Line F01
F02	Fill Line F02
F03	Fill Line F03
K15	6,000 Gallon Mixing Tank - Above Ground Vertical, Stainless Steel Interior
K16	6,000 Gallon Mixing Tank - Above Ground Vertical, Stainless Steel Interior
K17	5,500 Gallon Mixing Tank - Above Ground Vertical, Stainless Steel Jacketed Interior

Permit Condition (F01, F02 and F03)-001 and Permit Condition (K15, K16 and K17)-001

10 CSR 10-6.060 Construction Permits Required
 St. Louis City APCP Construction Permit No. 07-12-030

Emission Limitation:

- 1) The total VOC emissions from mixing tanks K15, K16 and K17, and the three fill lines F01, F02 and F03 shall not exceed 27.08 tons in any consecutive twelve (12)-month period.
- 2) The total HAPs emissions from mixing tanks K15, K16 and K17, and the three fill lines F01, F02 and F03 shall not exceed 4.24 tons in any consecutive twelve (12)-month period.

Operational Limitation/Equipment Specification:

Tanks containing VOC used for cleaning equipment shall remain covered except when operator access is required.

Monitoring/Record Keeping:

The permittee shall calculate and record the following for mixing tanks K15, K16 and K17, and the three fill lines F01, F02 and F03.

- 1) Monthly totals for VOC, individual HAPs and total HAPs emissions.
- 2) A consecutive 12-month total for VOC, individual HAPs and total HAPs emissions.

Reporting:

The permittee shall report to Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 no later than ten days after the end of each month, if the records show that permittee exceeded the emission limitations.

R44, R54 and R56 through R62 – Vertical Fixed Roof Storage Tanks		
Emission Unit	Description	Manufacturer/Model #
R44	39,000 Gallon Ethanol Storage Tank – Aboveground, White. Constructed 1992.	WEMAC/UL
R54	1,000 Mineral Spirits Storage Tank – Aboveground, White. Constructed 1992.	
R56	3,800 Petroleum Distillate Storage Tank – Aboveground, White. Constructed 1994.	Not Available
R57	3,800 Petroleum Distillate Storage Tank – Aboveground, White. Constructed 1994	
R58	39,700 Gallon Ethanol Storage Tank – Aboveground, White. Constructed 1994.	WEMAC/UL
R59	30,000 Gallon Methanol Storage Tank – Aboveground, White. Constructed 1995.	
R60	30,000 Gallon Aromatic 100 Storage Tank – Aboveground, White. Constructed 1994.	
R61	30,000 Gallon Acetone Storage Tank – Aboveground, White. Constructed 1997.	
R62	30,000 Gallon Acetone Storage Tank – Aboveground, White. Constructed 1997.	

Permit Condition (R44, R54 and R56 through R60)-001
10 CSR 10-6.060 Construction Permits Required
St. Louis City APCP Construction Permit No. 95-05-061
St. Louis City APCP Construction Permit No. 97-02-014, Amendment to Permit No. 95-05-061 ¹

Emission Limitation:

Product throughput shall not exceed those quantities listed in the table below:

Emission Unit (Tank Identification)	Content	Maximum Throughput Gallons per 12-Months
R44	Ethanol	2,400,000
R54	Mineral Sprits	24,000
R56	Petroleum Distillate	50,000
R57	Petroleum Distillate	50,000
R58	Ethanol	2,400,000
R59	Miscellaneous VOCs	1,500,000
R60	Xylene	1,500,000

¹ Tank R58 was permitted under Permit No. 95-05-061 to store petroleum distillate mineral oil. The amendment was to change the content of the tank to ethanol.

Monitoring/Record Keeping:

Accurately, easily understood, up-to-date records shall be kept of the throughput of all VOC containing liquids. These records shall be kept as a month to month moving average indicating usage during the previous 12 months.

Reporting:

The permittee shall report to Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 no later than ten days after the end of each month, if the records show that permittee exceeded the throughput limitations.

Permit Condition (R61 and R62)-001

10 CSR 10-6.060 Construction Permits Required
St. Louis City APCP Construction Permit No. 97-08-086

Emission Limitation:

Chemical throughput shall not exceed 2,000,000 gallons per 12-month period per tank.

Operational Limitation/Equipment Specification:

All equipment shall be operated and maintained according to the manufacture's specifications.

Monitoring/Record Keeping:

Accurate, easily understood, up-to-date records shall be kept of the throughput of all VOC containing liquids. These records shall be kept as a month to month moving average indicating usage during the previous 12 months.

Reporting:

The permittee shall report to Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 no later than ten days after the end of each month, if the records show that permittee exceeded the throughput limitations.

K08 and K09 – Mixing Tanks

Emission Unit	Description	Manufacturer/ Model #
K08	4,600 Gallon Mixing Tank - Above Ground Vertical, Stainless Steel Interior, Constructed 1993	Kirk & Blym
K09	7,600 Gallon Mixing Tank - Above Ground Vertical, Stainless Steel Interior, Constructed 1994	Clawson/ UL

Permit Condition (K08 and K09)-001

10 CSR 10-6.060 Construction Permits Required
 St. Louis City APCP Construction Permit No. 95-05-061

Emission Limitation:

Product throughput shall not exceed those quantities listed in the table below:

Emission Unit (Tank Identification)	Content	Maximum Throughput Gallons per 12-Months
K08	Miscellaneous VOCs	1,000,000
K09	Miscellaneous VOCs	1,500,000

Monitoring/Record Keeping:

Accurate, easily understood, up-to-date records shall be kept of the throughput of all VOC containing liquids. These records shall be kept as a month to month moving average indicating usage during the previous 12 months.

Reporting:

The permittee shall report to Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 no later than ten days after the end of each month, if the records show that permittee exceeded the throughput limitations.

F04 and F05 – Filling Lines K19 and K20 – Mix Tanks	
Emission Unit	Description
F04	Fill Line F04 - Lance Filling Process
F05	Fill Line F05 - Lance Filling Process
K19	7,800 Gallon Mix Tank - Above Ground
K20	7,800 Gallon Mix Tank - Above Ground

**Permit Condition (F04 and F05)-001 and
Permit Condition (K19 and K20)-001**

10 CSR 10-6.060 Construction Permits Required
St. Louis City APCP Construction Permit No. 10-08-016

Emission Limitation:

- 1) Chemisphere shall not exceed two (2) tons of VOC emissions from Lance Filling Units F04 and F05 and Mix Tanks K19 and K20 combined in any consecutive 12-month period.
- 2) Chemisphere shall not exceed two (2) tons of total HAP emissions from Lance Filling Units F04 and F05 and Mix Tanks K19 and K20 combined in any consecutive 12-month period.

Operational Limitation/Equipment Specification:

Tanks containing VOC used for cleaning equipment shall remain covered except when operator access is required.

Monitoring/Record Keeping:

- 1) Chemisphere shall keep monthly records of VOC and HAP emissions from Lance Filling Units F04 and F05 and Mix Tanks K19 and K20 including a calculated total for any consecutive 12-month period.
- 2) Material Safety Data Sheets (MSDS) shall be kept on-site for all materials that will be used in Lance Fill Units F04 and F05 and Mix Tanks K19 and K20.

Reporting:

The permittee shall report to Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 no later than ten days after the end of each month, if the records show that permittee exceeded the emission limitations.

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) 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.

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

- 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.

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 10-5.040 Use of Fuel in Hand-Fired Equipment Prohibited

It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area. This regulation shall apply to all fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces. It shall not apply to wood-burning fireplaces and wood-burning stoves in dwellings, nor to fires used for recreational purpose, nor to fires used solely for the preparation of food by barbecuing. Hand-fired fuel-burning equipment is any stove, furnace, or other fuel-burning device in which fuel is manually introduced directly into the combustion chamber.

10 CSR 10-5.060 Refuse Not to be Burned in Fuel Burning Installations (Contained in State Implementation Plan)

No person shall burn or cause or permit the burning of refuse in any installation which is designed for the primary purpose of burning fuel.

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 record keeping 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 Record Keeping and Reporting Requirements

1) Record Keeping

- 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, 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, record keeping, 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 semiannually (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, 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 record keeping requirements, increase the emissions above major source level) do not qualify for off-permit changes.
 - b) The permittee must provide contemporaneous written notice of the change to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219. 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 Matthew R. Schwent, President. 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) MDNR 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.

The Permittee shall use the following Emission Factors and Emission Calculations methods to determine the VOC and HAP(s) emissions:

1. Fill Lines and Loading Racks:

Monthly Emissions (lbs) = 12.46 x Saturation Factor (top fill, submerged load/fill clean vessel) x Actual monthly throughput of material (1,000 gallons) x Vapor Pressure of material (psia) x Molecular Weight of material (lb/lb-mole) / Temperature (°R)

Note:

- The factors for calculating emissions from Fill Lines (F01, F02, F03, F04 and F05) and Loading Racks (L1, L2 and L3) were derived using the loading loss equation (Eq. 1) from EPA document AP-42, Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 5.2 "Transportation and Marketing of Petroleum Liquids" (July 2008).
- The Molecular Weight of material shall be obtained from Material Safety Data Sheets (MSDS) or Manufacturers' Chemical Formulation.

2. Storage Tanks:

Emissions from Storage Tanks shall be calculated using data from the installations most recent EIQ.

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 OP2012-019, issued May 11, 2012;
- 2) Intermediate Operating Permit OP2012-019 Amendment Application, received February 2, 2014, revised April 28, 2014;
- 3) 2013 Emissions Inventory Questionnaire, received February 3, 2014;
- 4) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition;
- 5) Air Pollution Control Program Construction Permits and Permit Determinations:

Project Number	Description
AP201211007	Determination of permit need for the installation of four 30,000 gallon storage tanks (R67, R68, R69 and R70) that will contain acetone. Acetone is not considered VOC because of its known lack of participation in the atmospheric reactions to produce ozone. No construction permit is required.
AP201212010	Determination of permit need for a change in contents in a 30,000 gallon storage tank. The tank (R68) originally contained acetone and now will change to Calumet 420-060. Calumet 420-060 is a petroleum distillate of 99.95% VOC, no HAPs. The VOC net emissions increase (0.007 tons per year) is below the de minimis levels, and according to 10 CSR 10-6.060, the change is exempt and no construction permit is required.
AP201302072	Determination of permit need to replace two existing 4,000 gallon storage tanks with two new 6,500 gallon pressurize tanks (R41 and R42). The tanks are horizontal and will store methylene Chloride (CAS 75-09-2). Methylene chloride is a HAP and the potential emissions would be 2.03 tons per year (0.46 pounds per hour). This is less than the exemption level in 10 CSR 10-6.061, Construction Permit Exemptions (3)(A)3.B (i.e. 0.5 pounds per hour) and no construction permit is required.

Project Number	Description
AP201305021	Construction Permit No. 102013-010. A Section (5) permit issued on October 15, 2013 for the installation of a two (2) 35,000 gallon ethanol storage tanks (R73 and R74).
AP201308049	Determination of permit need for the installation of one 10,000 gallon storage tank (R71) that will contain Calumet 300-360, and one 35,000 gallon storage tank (R75) will contain acetone. Calumet 300-360 is a petroleum distillate of 99.95% VOC, no HAPs. The VOC net emissions increase (0.017 tons per year) is below the de minimis levels, and according to 10 CSR 10-6.060, the change is exempt and no construction permit is required.
AP201402037	Determination of permit need for a change in contents in a 10,000 gallon storage tank (R71). The tank (R71) originally contained Calumet 300-360 and now will change to methyl acetate which is VOC exempt and the change does not increase the potential to emit of any other air pollutant. No construction permit required.
AP201405027	Determination of permit need for the installation of one 5,000 gallon water storage tanks (R47) and one 300 gallon mobile ethyl acetate mixing tank (K22). According to Missouri State Rule 10 CSR 10 6.061, Construction Permit Exemptions, no construction permit is required.

6) City of St Louis Air Pollution Control Program Construction Permits and Source Registration Permits:

Permit Number	Description
95-05-061	Nine Chemical Storage Tanks
97-02-014	A Chemical Tank Used to Store Ethanol
97-08-086	Two Chemical Storage Tanks
06-03-005	Three Mixing Tanks and Three Filling Lines
07-12-030	Three Mixing Tanks and Three Filling Lines
SR08.049	Three 17,000-gal Stainless Steel, Vertical Cylindrical Exterior Storage Tanks
SR12.008	K21 Interior 600 gallon Mix Tank

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.

1) St. Louis City Ordinances Nos. 64749, 65108, 65488, 65442 and 65645

These ordinances were reviewed and considered at the time the application for this permit was submitted. Since that time, these ordinances have been repealed and replaced with St. Louis City Ordinance No. 68657. The only section of Ordinance 65645 that corresponds to a rescinded ordinance included in the State SIP and therefore federally enforceable is Section 16 - Open Burning

Restrictions. This section of the new ordinance is the only section included in the operating permit at this time.

2) 10 CSR 10-5.500, *Control of Emissions from Volatile Organic Liquid Storage*.

The provisions of this rule shall apply to all storage containers of volatile organic liquid (VOL) with a maximum true vapor pressure of one-half pound per square inch (0.5 psia) or greater in any stationary tank, reservoir or other container of forty thousand (40,000) gallon capacity or greater.

This rule is not applicable because Chemisphere does not store volatile organic liquid in tanks equal to or greater than 40,000 gallons in capacity.

3) 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*

The emission units at the installation do not emit particulate matter or other condensibles which would reduce the transmission of light or obscure the view of an object in the background. Since the significant emission units at this installation are VOC/HAP emitting sources, we have elected not to require the permittee to conduct monitoring of opacity.

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

- 1) The construction permits issued to Chemisphere Corporation by the City of St. Louis APCP required the installation to report emissions yearly on the Emissions Inventory Questionnaire. Since the emission reporting [10 CSR 10-6.110, *Submission of Emission Data, Emission Fees and Process Information*] is the requirements of this Intermediate permit and included in the core permit requirements section of this permit, the yearly emissions reporting conditions of the construction permits are not included in the operating permit.

New Source Performance Standards (NSPS) Applicability

40 CFR Part 60, Subpart K – *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification commenced After June 11, 1973*

40 CFR Part 60, Subpart Ka, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification commenced After May 18, 1978, and Prior to July 23, 1984*

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.*

The following storage tanks are below the level of reporting significance (Subpart K & Ka – 40,000 gallons and Subpart Kb – 19,812.9 gallons or the material being stored does not meet the definition of petroleum liquids according to 40 CFR Part 60, Subpart Ka and therefore are not subject to 40 CFR Part 60 Subpart Ka or Kb):

Description	Capacity (Gallon)
R54 - Gallon Mineral Spirits Storage Tank	1,000
R56 - Petroleum Distillate Storage Tank	3,400
R57 - Petroleum Distillate Storage Tank	3,400
K08 – Mixing Tank	4,600
K09 – Mixing Tank	4,600
K15 – Mixing Tank	6,000

Description	Capacity (Gallon)
K16 – Mixing Tank	6,000
K17 – Mixing Tank	5,500
K19 – Mixing Tank	7,800
K20 – Mixing Tank	7,800
K21 – Mix Tank	600
R01 through R10– 10 Storage Tanks (constructed prior to 1984)	20,000 (each)
R13 through R22 – 10 Storage Tanks	10,000 (each)
R23 through R36 – 14 Storage Tanks	1,000 (each)
R37 and R38 – 2 Storage Tanks	1,600 (each)
R40 – Storage Tank	6,000
R41 and R42 – 2 Storage Tanks	4,000 (each)
R63 through R65 – 3 Storage Tanks	17,000 (each)
R71 –Methyl Acetate Storage Tank	10,000
K04 – Mix Tank	1,400 Gallons
K05 and K06 – 2 Mix Tanks	660 (each)
K07 – Mix Tank	55
K10 – Mix Tank	110
K12 – Mix Tank	1,900
K22 – Mobile Ethyl Acetate Mixing Tank	300

The following storage tanks are not subject to the requirements of Subpart Kb. This subpart does not apply to storage vessels with a capacity greater than or equal to 151 m³ (39,890 gallons) storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa) (26.25 mmHg) or with a capacity greater than or equal to 75 m³ (19,812.9 gallons) but less than 151 m³ storing a liquid with a maximum true vapor pressure less than 15.0 kPa (112.51 mmHg). The true vapor pressures of the materials being stored are less than 15.0 kPa. [§60.110b(b)]

Description	Capacity (gallons)	Solvent Vapor Pressure (kPa)
R44 – Ethanol Storage Tank	39,000	11.71 (87.8 mmHg)
R58 – Ethanol Storage Tank	39,700	11.71 (87.8 mmHg)
R60 – Aromatic 100 Storage Tank	39,700	<1.33 (<10 mmHg)
R68 - Calumet 420-060.	30,000	0.029 (0.22 mmHg)
R73 and R74 – Ethanol Storage Tanks	35,000 (each)	11.71 (87.8 mmHg)

The following storage tanks contain non-regulated materials.

Description	Capacity (Gallon)
R11 – Acetone Storage Tank	30,000
R12 – Acetone Storage Tank	30,000
R47 – Water Storage Tank	5,000
R59 - Acetone Storage Tank	30,000
R61 - Acetone Storage Tank	30,000
R62 - Acetone Storage Tank	30,000
R67, R69 and R70 – 3 Acetone Storage Tanks	30,000
R72 - Acetone Storage Tank	35,000
R75 - Acetone Storage Tank	35,000

Maximum Achievable Control Technology (MACT) Applicability

There are no MACT standards that are currently applicable to this installation.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

40 CFR Part 61 Subpart M - *National Emission Standard for Asbestos*, §61.145(a), Standard for demolition and renovation, applies to the installation.

This regulation has been included in the operating permit because it applies to any demolition or renovation (as outlined in 40 CFR 61.145) of buildings containing asbestos at the installation.

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 APCP a schedule for achieving compliance for that regulation(s).

Public Comment

The Air Pollution Control Program did not receive any comments from either the public or the applicant during the 30-day comment period.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

www.dnr.mo.gov

MAR 29 2016

Mr. Matthew R. Schwent
Chemisphere Corporation
2101 Clifton Avenue
St. Louis, MO 63139

Re: Chemisphere Corporation, 510-0808
Permit Number: OP2012-019A

Dear Mr. Schwent:

Enclosed with this letter is your amended intermediate operating permit. The amendment incorporates the process changes. The amendment also revises the volatile organic compounds (VOC) operating permit federally enforceable emission limitation to be below the major source threshold levels. 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 Berhanu Getahun at the St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, MO 63125, or by telephone at (314) 416-2960. You may also contact me with the Department's 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/bg

Enclosures

c: PAMS File: 2014-02-028

