



## PART 70 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 here in.

**Operating Permit Number:** OP2008-038

**Expiration Date:** AUG 28 2013

**Installation ID:** 205-0011

**Project Number:** 2007-04-037

**Installation Name and Address**

City of Shelbina Power Plant  
104 N. Douglas and 410 W. Chestnut  
Shelbina, MO 63468  
Shelby County

**Parent Company's Name and Address**

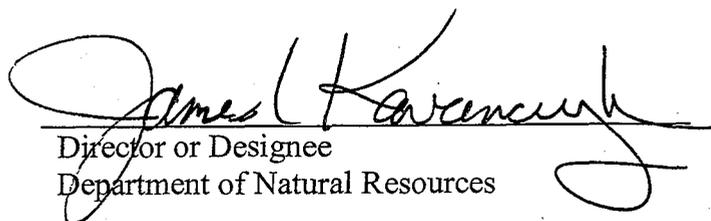
City of Shelbina  
116 E. Walnut  
Shelbina, MO 63468

**Installation Description:**

The installation is an electric generating peaking station, consisting of eight (8) diesel engine generating units at two (2) locations.

AUG 29 2008

Effective Date

  
Director or Designee  
Department of Natural Resources

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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

The installation is an electric generating peaking station, consisting of eight (8) diesel engine generating units at two (2) locations. The two (2) newest engines use cooled combustion air for NO<sub>x</sub> control. The installation has the potential to be a major source of NO<sub>x</sub> emissions. The reported pollutant emissions for the installation in the past five (5) years are listed below.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO <sub>x</sub> )	Nitrogen Oxides (NO <sub>x</sub> )	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2007	0.07	0.04	3.66	0.10	0.59	0.00	0.00
2006	0.03	0.08	5.30	0.10	0.75	0.00	0.00
2005	0.07	0.11	9.37	0.13	1.30	0.00	0.00
2004	0.06	0.01	0.98	0.02	0.18	0.00	0.00
2003	0.21	0.11	7.28	0.28	1.24	0.00	0.00

### EMISSION UNITS WITH LIMITATIONS

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

Emission Unit #	Description of Emission Unit
EU0010	Fairbanks-Morse Electric Generator, 27.8 MMBtu/hr, Blended No.2 Diesel Oil or Pipeline Natural Gas Fueled
EU0020	Caterpillar Electric Generator, 13.4 MMBtu/hr, Blended No.2 Diesel Oil Fueled
EU0030	Caterpillar Electric Generator, 13.4 MMBtu/hr, Blended No.2 Diesel Oil Fueled
EU0040	Caterpillar Electric Generator, 13.4 MMBtu/hr, Blended No.2 Diesel Oil Fueled
EU0050	Caterpillar Electric Generator, 13.4 MMBtu/hr, Blended No.2 Diesel Oil Fueled
EU0060	Caterpillar Electric Generator, 17.84 MMBtu/hr, Blended No.2 Diesel Oil Fueled
EU0070	Caterpillar Electric Generator, 19.48 MMBtu/hr, Blended No.2 Diesel Oil Fueled
EU0080	Caterpillar Electric Generator, 19.48 MMBtu/hr, Blended No.2 Diesel Oil Fueled

### **EMISSION UNITS WITHOUT LIMITATIONS**

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

#### Description of Emission Unit

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Tank DT 1 — 300 gallon diesel fuel day tank for G1A, 1981  
Tank DT 2 — 300 gallon diesel fuel day tank for G2A, 1989  
Tank DT 3 — 300 gallon diesel fuel day tank for G3A, 1992  
Tank DT 4 — 300 gallon diesel fuel day tank for G4A, 1992  
Tank DT 5 — 300 gallon d diesel fuel day tank for G5A, 1992  
Tank DT 6 — 300 gallon diesel fuel day tank for G6A, 1999  
Tank DT 7 — 300 gallon diesel fuel day tank for G7A, 2000  
Tank DT 8 — 300 gallon d diesel fuel day tank for G8A, 2000  
Tank.2 — 19,000-gallon capacity, No.2 diesel fuel oil tank, yr. 1991  
Tank.4 — 19,000-gallon capacity, No.2 diesel fuel oil tank, yr. 2001  
Tank 3 — 26,786-gallon capacity, No.2 diesel fuel oil tank, yr. 1999

### **DOCUMENTS INCORPORATED BY REFERENCE**

These documents have been incorporated by reference into this permit.

- 1) Construction Permit 052000-014; and
- 2) Construction Permit 052000-014A, Amendment to Construction Permit 052000-014.

## **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 as of the date that this permit is issued.

None

### 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 as of the date that this permit is issued.

<b>EU0010 through EU0080 – Electric Generators</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>	<b>2006 EIQ Reference #</b>
EU0010	Electric Generator - Diesel Oil or Pipeline Natural Gas Fueled, 27.8 MMBtu/hr, 3,000 kW	Fairbanks-Morse, 4191 hp, Serial No. 38D879029TDFS12, yr.:1981	EP-G1A
EU0020	Electric Generator - Diesel Oil Fueled, 13.4 MMBtu/hr, 1,600 kW	Caterpillar Engine, 3516 Genset, 2306 hp, Serial No. 25Z01526, yr.:1989	EP-G2A
EU0030	Electric Generator - Diesel Oil Fueled, 13.4 MMBtu/hr, 1,600 kW	Caterpillar Engine, 3516 Genset, 2306 hp, Serial No. 25Z02315, yr.:1992	EP-G3A
EU0040	Electric Generator - Diesel Oil Fueled, 13.4 MMBtu/hr, 1,600 kW	Caterpillar Engine, 3516 Genset, 2306 hp, Serial No. 25Z02325, yr.:1992	EP-G4A
EU0050	Electric Generator - Diesel Oil Fueled, 13.4 MMBtu/hr, 1,600 kW	Caterpillar Engine, 3516 Genset, 2306 hp, Serial No. 25Z02317, yr.:1992	EP-G5A
EU0060	Electric Generator - Diesel Oil Fueled, 17.84 MMBtu/hr, 1,960 kW	Caterpillar Engine, 3516B Genset, 2628 hp, Serial No., 7RN00395, yr.:1999	EP-G6A
EU0070	Electric Generator - Diesel Oil Fueled, 19.48 MMBtu/hr, 2,000 kW	Caterpillar Engine, 3516B Genset, 2,800 hp, Serial No., 7RN01309, yr.:2000	EP-G7A
EU0080	Electric Generator - Diesel Oil Fueled, 19.48 MMBtu/hr, 2,000 kW	Caterpillar Engine, 3516B Genset, 2,800 hp, Serial No., 7RN01300, yr.:2000	EP-G8A

#### **Permit Condition EU0010-001 through EU0080-001**

10 CSR 10-6.260

Restriction of Emission of Sulfur Compounds

**Emission Limitation:**

- 1) No person shall cause or permit the emission into the atmosphere, from any new source constructed after February 24, 1971, gases containing more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide or more than thirty-five milligrams per cubic meter (35 mg/m<sup>3</sup>) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3)-hour time period.

- 2) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010, Ambient Air Quality Standards. [10 CSR 10-6.260(3)(B) & 10 CSR 10-6.010 Ambient Air Quality Standards]<sup>1</sup>

**Voluntary Limitation**

The emission units shall be limited to burning fuel oil with a sulfur content of no more than 0.05% sulfur by weight, annual average.<sup>2</sup>

**Monitoring/Recordkeeping:**

The permittee shall maintain records of the fuel type used verifying a sulfur content no more than 0.05% by weight, annual average. Purchase receipts, analyzed samples or certifications of the sulfur content of the fuel will be acceptable. If this can not be accomplished, then compliance to the emission limitations shall be determined by source testing and shall be accomplished as specified in 10 CSR 10-6.030(6) for sulfur dioxide emissions and 10 CSR 10-6.040 for measuring ambient sulfur compound concentrations. Other methods approved by the staff director in advance may be used.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

**Permit Condition EU0010-002 through EU0060-002**

10 CSR 10-6.065  
Operating Permits  
10 CSR 10-6.065(6)(C)2.A. Voluntary Provision(s)

**Emission Limitation:**

Proposed Condition: The permittee shall limit NO<sub>x</sub> emissions to ninety five (95) tons per twelve (12) consecutive months from all engines at the 410 W. Chestnut location (EU0010 through EU0060).

**Monitoring and Recordkeeping:**

- 1) The permittee shall maintain a monthly record of the fuels consumed adequate to determine the monthly and the consecutive twelve (12) month NO<sub>x</sub> emissions from EU0010 through EU0060.
- 2) Attachment A, or an equivalent form, must be used to certify compliance with this requirement.

**Reporting:**

The permittee shall report to the Air Pollution Control Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this permit condition, or any malfunction which could cause an exceedance of this permit condition.

<sup>1</sup> 10 CSR 10-6.260(3)(B) is a state-only requirement

<sup>2</sup> This voluntary limitation will allow emission units EU0030 to EU0080 to qualify for the Acid Rain new unit exemption.

**Permit Condition EU0070-002 through EU0080-002**

10 CSR 10-6.060

Construction Permits Required

Construction Permit 052000-14 and 052000-14A

**Emission Limitation:**

The permittee shall not emit more than fifty three (53) tons of Nitrogen Oxides (NO<sub>x</sub>) in any twelve (12) consecutive month period from all generators at the 104 N. Douglas location (EU0070 and EU0080).  
[Construction Permit 052000-014: Special Condition 1A]

**Monitoring and Recordkeeping:**

- 1) The permittee shall maintain a monthly record of the diesel fuel consumed adequate to determine the monthly and the consecutive twelve (12) month NO<sub>x</sub> emissions from EU0070 and EU0080.  
[Construction Permit 052000-014: Special Condition 1B]
- 2) Attachment B, or an equivalent form, must be used to certify compliance with this requirement.  
[Construction Permit 052000-014A]

**Reporting:**

The permittee shall report to the Air Pollution Control Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could cause an exceedance of this regulation.  
[Construction Permit 052000-014: Special Condition 1C]

## 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) 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 10-6.045 Open Burning Requirements

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

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

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

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

- i) Measures taken to mitigate the extent and duration of the excess emissions; and
  - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph one (1) information list to the director in writing at least ten (10) 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 (10) 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 (10) 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 one (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 (5) 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 (6) months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(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(6)(C)3.B]

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

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 2) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079 to satisfy the requirements of the Federal Clean Air Act, Title V.

- 3) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the director.

#### **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 non-compliance 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 10-3.090 Restriction of Emission of Odors**

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 (1) volume of odorous air is diluted with seven (7) volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one (1) hour.

**This requirement is not federally enforceable.**

### **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 10-6.250 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.

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(6)(C)1.B Permit Duration

This permit is issued for a term of five (5) years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

### 10 CSR 10-6.065(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 (5) 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) October 1st for monitoring which covers the January through June time period, and
  - ii) April 1st for monitoring which covers the July through December time period.
  - iii) Exception. Monitoring requirements, which require reporting more frequently than semi-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; this includes deviations or Part 64 exceedances.
- d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten (10) 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.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two (2) 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 semi-annual report shall be reported on the schedule specified in this permit, and no later than ten (10) 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 (10) days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten (10) 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(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 (3) 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(6)(C)1.F Severability Clause**

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

#### **10 CSR 10-6.065(6)(C)1.G General Requirements**

- 1) The permittee must comply with all of the terms and conditions of this permit. Any non-compliance 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 non-compliance, 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 pursuant to 10 CSR 10-6.065(6)(C)1.

### **10 CSR 10-6.065(6)(C)1.H Incentive Programs Not Requiring Permit Revisions**

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

### **10 CSR 10-6.065(6)(C)1.I Reasonably Anticipated Operating Scenarios**

None.

### **10 CSR 10-6.065(6)(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 June 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, as well as the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions 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(6)(C)6 Permit Shield**

- 1) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
  - a) The application requirements are included and specifically identified in this permit, or
  - b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
- 2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
  - a) The provisions of Section 303 of the Act or Section 643.090, RSMo concerning emergency orders,
  - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
  - c) The applicable requirements of the acid rain program,
  - d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of the Missouri Department of Natural Resources to obtain information, or
  - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

#### **10 CSR 10-6.065(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 non-compliance 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 (2) 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 non-compliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

#### **10 CSR 10-6.065(6)(C)8 Operational Flexibility**

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously

emitted. The permittee shall notify the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, at least seven (7) days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

- 1) Section 502(b)(10) changes. Changes that, under Section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), record keeping, reporting or compliance requirements of the permit.
  - a) Before making a change under this provision, the permittee shall provide advance written notice to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the Air Pollution Control Program shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the Air Pollution Control Program as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the Air Pollution Control Program as soon as possible after learning of the need to make the change.
  - b) The permit shield shall not apply to these changes.

#### **10 CSR 10-6.065(6)(C)9 Off-Permit Changes**

- 1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. 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 subject to any requirements under Title IV of the Act or is a Title I modification;
  - b) The permittee must provide 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, 901 North 5th Street, Kansas City, Kansas 66101, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. 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.
  - 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; and
  - d) The permit shield shall not apply to these changes.

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

The application utilized in the preparation of this permit was signed by John D. Smith, Mayor. 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(6)(E)6 Reopening-Permit for Cause**

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
- 2) 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,
- 3) 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 (3) 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,
- 4) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit; or
- 5) MDNR or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

### **10 CSR 10-6.065(6)(E)1.C Statement of Basis**

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

## **VI. Attachments**

Attachments follow.



Attachment B

**NO<sub>x</sub> Compliance Worksheet for EU0070 and EU0080**

This sheet covers the period from \_\_\_\_\_ to \_\_\_\_\_  
 (month, year) (month, year)

Copy this sheet as needed.

	Column 1	Column 2	Column 3	Column 4
Month	Diesel Throughput (1000 gal.)	NO <sub>x</sub> Emission Factor For Burning Diesel (lb/1000 gal.)	Monthly NO <sub>x</sub> Emissions From Burning Diesel (tons)	Sum of Most Recent twelve (12) Consecutive Months of NO <sub>x</sub> Emissions (tons)
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		
		172.9		

- Column 3 = Column 1 x Column 2 x 0.005
- Column 4 = Sum of the most recent twelve (12) consecutive months of Column 3. Not to exceed fifty three (53) tons of NO<sub>x</sub> in any consecutive twelve (12) month period.

## STATEMENT OF BASIS

### 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) Part 70 Operating Permit Application, received April 4, 2007;
- 2) 2006 Emissions Inventory Questionnaire, received June 11, 2007;
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition;
- 4) Construction Permit 1091-002,- limit superceded by Permit 0299-016A;
- 5) Construction Permit 0299-016A,- limit voluntarily reduced in operating permit application; and
- 6) Title IV – Acid Rain New Unit Exemption, Project No 2006-02-041.

### 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 the following requirements to not be applicable to this installation at this time for the reasons stated.

#### 10 CSR 10-6.100, *Alternate Emission Limits*

This rule is not applicable because the installation is in an ozone attainment area.

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

This rule does not apply to internal combustion engines operated outside the Kansas City or St. Louis metropolitan areas and stationary internal combustion engines operating in the Kansas City or St. Louis metropolitan areas. However, this rule applies to the fuel storage tanks. Since the storage tanks are VOC/HAP emitting sources, the Air Pollution Control Program does not consider the tanks to be capable of exceeding the opacity standards of this rule; therefore, this rule is not included in the operating permit.

#### 10 CSR 10-6.350, *Emission Limitations and Emissions Trading of Oxides of Nitrogen*

This rule applies to any fossil fuel-fired electric generating unit with a nameplate capacity of greater than twenty-five megawatts (25 MW). None of the generators at the installation have a nameplate capacity of greater than 25 MW; therefore, the rule was not placed in the permit.

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

This regulation defines process weight to “exclude liquids and gases used solely as fuels and air introduced for purposes of combustion” under 10 CSR 10-6.400(2)(A). For the internal combustion engines (ICEs) at this installation, the throughputs only consist of gaseous/liquid fuels and combustion air. Therefore, there are no applicable throughputs for the ICEs and the other emission sources at this installation have no or insignificant particulate emissions. Therefore, no emission

sources at this installation were considered to be applicable to this regulation and it was not included in the operating permit.

### Construction Permit Revisions

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

1) Construction Permit 0299-016A.

Condition 1 - Limited NO<sub>x</sub> emissions to one hundred (100) tons per year for EU0010 through EU0060. The permittee submitted a proposed condition in the Part 70 application to limit the NO<sub>x</sub> emissions to ninety five (95) tons per year for the six (6) gensets.

Condition 2 – Attachment A utilized an emission factor of 604 lbs NO<sub>x</sub>/1000 gallons of diesel fuel combusted. This emission factor from AP-42, Section 3.3, Gasoline and Diesel Industrial Engines, is closer to emission information provided by the engine manufacturer than the lower emission factor of AP-42, Section 3.4, Large Stationary Diesel and All Stationary Dual-fuel Engines.

2) Construction Permit 05200-14.

Construction Permit 052000-14 was issued May 9, 2000, for the construction of four (4) diesel gensets. Two (2) of the units, EU0070 and EU0080, have been installed and are operational. There is no schedule for the completion of the project at the time this operating permit was issued. The permittee should be aware that continuation of the project may require additional approval of the Air Pollution Control Program, since the new source review (NSR) permit can be revoked if construction or modification work is not begun within two (2) years from the date of issuance of the permit or if work is suspended for one (1) year.

### New Source Performance Standards (NSPS) Applicability

10 CSR 10-6.070, *New Source Performance Regulations*

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 Ka – 40,000 gallons and Subpart Kb – 19,812.9 gallons or the material being stored (No. 2 Fuel Oil) 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	Date Placed in Service
Tank DT 1 — Diesel fuel day tank for G1A	300 gallons	1981
Tank DT 2 — Diesel fuel day tank for G2A	300 gallons	1989
Tank DT 3 — Diesel fuel day tank for G3A	300 gallons	1992
Tank DT 4 — Diesel fuel day tank for G4A	300 gallons	1992
Tank DT 5 — Diesel fuel day tank for G5A	300 gallons	1992
Tank DT 6 — Diesel fuel day tank for G6A	300 gallons	1999
Tank DT 7 — Diesel fuel day tank for G7A	300 gallons	2000
Tank DT 8 — Diesel fuel day tank for G8A	300 gallons	2000

Description	Capacity	Date Placed in Service
Tank.2 — No.2 diesel fuel oil tank	19,000 gallons	1991
Tank.4 — No.2 diesel fuel oil tank	19,000 gallons	2001

The following storage tank is 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 m<sup>3</sup> (39,890 gallons) storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa) (0.5 psia) or with a capacity greater than or equal to 75 m<sup>3</sup> (19,812.9 gallons) but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure less than 15.0 kPa (2.18 psia). The true vapor pressure of the material being stored (No. 2 diesel fuel oil) is much less than 15.0 kPa.

Description	Capacity	Date Placed in Service
Tank 3 — No.2 diesel fuel oil tank	26,786 gallons	1999

**Maximum Available Control Technology (MACT) Applicability**

10 CSR 10-6.075, *Maximum Achievable Control Technology Regulations*

40 CFR Part 63, *Subpart ZZZZ, Reciprocating Internal Combustion Engines*

The current NO<sub>x</sub> limitations only allow the combustion of enough diesel fuel to emit 622 lb HAPs per year. Therefore, the installation is a minor source for HAP emissions and 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.

**Compliance Assurance Monitoring (CAM) Applicability**

40 CFR Part 64, *Compliance Assurance Monitoring (CAM)*

The CAM rule applies to each pollutant specific emission unit that:

- Is subject to an emission limitation or standard, and
- Uses a control device to achieve compliance, and
- Has pre-control emissions that exceed or are equivalent to the major source threshold.

40 CFR Part 64 is not applicable because none of the pollutant-specific emission units uses a control device to achieve compliance with a relevant standard.

**Other Regulatory Determinations**

1) 10 CSR 10-6.270, *Acid Rain Source Permits Required*

The Acid Rain rules (40 CFR Part 72-75) applicability is shown in the following table. In general, all eight (8) units qualify for exemptions from the Acid Rain rules since each is less than 25 MW. The two (2) units constructed before 1990 are automatically exempt. The six (6) units built after 1990 must apply for a New Unit Exemption.

Emission Unit #	Year	Size	Acid Rain Applicability Determination
EU0010	1981	3.0 MW	Exempt per 40 CFR 72.6(b)(2)
EU0020	1989	1.6 MW	Exempt per 40 CFR 72.6(b)(2)
EU0030	1992	1.6 MW	Must apply for New Unit Exemption per 40 CFR 72.7
EU0040	1992	1.6 MW	Must apply for New Unit Exemption per 40 CFR 72.7
EU0050	1992	1.6 MW	Must apply for New Unit Exemption per 40 CFR 72.7
EU0060	1999	1.96 MW	Must apply for New Unit Exemption per 40 CFR 72.7
EU0070	2000	2.0 MW	Must apply for New Unit Exemption per 40 CFR 72.7
EU0080	2000	2.0 MW	Must apply for New Unit Exemption per 40 CFR 72.7

2) 10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*

Compliance Calculations:

a) 10 CSR 10-6.260(3)(A)2. limits for EU0010 through EU0080:

Maximum SO<sub>2</sub> concentration = 500 ppmv,

Maximum SO<sub>3</sub> concentration = 35 mg/m<sup>3</sup>

SO<sub>2</sub> emission factor = 1.01S<sub>1</sub> lbs/10<sup>6</sup> MMBtu (AP-42, Section 3.4)

SO<sub>3</sub> Emission Factor = 2 S<sub>1</sub>lb/1000 gal (AP-42, Section 1.3)

Where: S<sub>1</sub> = Wt % sulfur in the fuel oil (no more than 0.05%)

AP-42, Appendix A, to convert lb/cu ft to mg/m<sup>3</sup>, multiply by 16.018 x 10<sup>6</sup>

Stack Test EU0070 on 12/04/01:

Flow = 15,587 acfm,

fuel usage = 134.1 gal/hr,

temperature = 834 °F

Then:

$$SO_2 \text{ Emission} = \left[ 134.1 \frac{\text{gal}}{\text{hr}} \times 137,000 \frac{\text{Btu}}{\text{gal}} \times \left( 1.01 \frac{\text{lb } SO_2}{10^6 \text{ Btu}} \times 0.05\% S \right) \right] = 0.93 \frac{\text{lb } SO_2}{\text{hr}}$$

$$SO_2 \text{ Concentration} = \left[ 0.93 \frac{\text{lb } SO_2}{\text{hr}} \times 384.1 \frac{\text{scf}}{64 \text{ lb}} \times \frac{1294^\circ \text{R}}{528^\circ \text{R}} \times \frac{10^6}{\left( 15,587 \text{ acfm} \times \frac{60 \text{ min}}{\text{hr}} \right)} \right] = 14.6 \text{ ppm}$$

$$SO_3 \text{ Concentration} = \left[ \left( \frac{2 \text{ lb } SO_3}{1000 \text{ gal}} \times 0.05\% S \right) \times 134.1 \frac{\text{gal}}{\text{hr}} \times \left( \frac{16.018 \times 10^6}{15,587 \times 60} \right) \right] = 0.23 \frac{\text{mg } SO_3}{\text{m}^3}$$

The calculations show that EU0070 is in compliance with the SO<sub>2</sub> and SO<sub>3</sub> concentration limits. The other engines will have very similar emission levels and are assumed to be in compliance.

b) 10 CSR 10-6.260(3)(B)

SO<sub>2</sub> Ambient Air Concentration,  $\mu\text{g}/\text{m}^3$  — Screen 3

Gensets	Total for 1 - 6	Total for 7 and 8
Three (3) hr limit, 1300	259.4	102.2
Twenty four (24) hr limit, 365	115.3	45.5
Annual limit, 80	23.1	9.1
Concentration at property line	<1	<1

These values indicate that the source is in compliance with 10 CSR 10-6.260(3)(B) with all gensets operating.

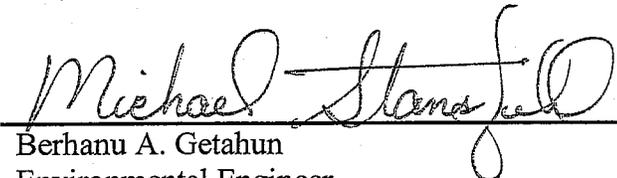
**Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis**

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:

for   
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Environmental Engineer