

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Matt Blunt, Governor • Doyle Childers, Director

www.dnr.mo.gov

MAR 15 2007

CERTIFIED MAIL, 70052570000215849366
RETURN RECEIPT REQUESTED

Mr. Vern Kincheloe
General Manager
Macon Municipal Power Plant
PO Box 569
Macon, MO 63552

Re: Macon Municipal Power Plant, Installation ID: 121-0004
Permit Number: **OP2006-037A**

Dear Mr. Simpson:

Enclosed with this letter is your Part 70 operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations, cited in this document, is necessary for continued compliance. It is very important you read and understand the requirements contained in your permit.

If you have any questions or need additional information regarding this permit, please Slawomir Szydlo at (573) 751-4817, or write the Department of Natural Resources' Air Pollution Control Program, PO Box 176, Jefferson City, MO 65102. Thank you for your time and attention.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



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

MJS: ssk

Enclosures

c: Ms. Tamara Freeman, US EPA Region VII
Northeast Regional Office
PAMS File: 2006-09-079



Missouri Department of Natural Resources
Air Pollution Control Program

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: OP2006-037A
Expiration Date: MAR 14 2012
Installation ID: 121-0004
Project Number: 2006-09-079

Installation Name and Address

Macon Municipal Power Plant
404 Vine Street
Macon, MO 63552
Macon County

Parent Company's Name and Address

Macon Municipal Utilities
106 W. Bourke Street
Macon, MO 63552

Installation Description:

The Macon Municipal Utilities (MMU) consists of four facilities: Macon Municipal Power Plant, MMU – NEMO Generating Station, MMU Substation No. 2 (S-2) and MMU Substation No. 3 (S-3). These four facilities, which are located within a few miles of each other, are used primarily for electricity generation during peak demand or during emergencies and supply electricity to the Missouri Public Utility Alliance Power Pool. The four facilities have been deemed to be under common control and are being considered as one facility under this Title V Permit.

MAR 15 2007

Effective Date

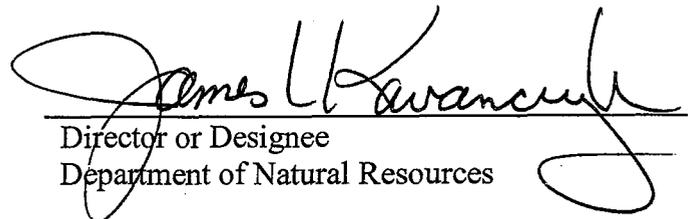

Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

The Macon Municipal Utilities (MMU) consists of four facilities: Macon Municipal Power Plant, MMU – NEMO Generating Station, MMU Substation No. 2 (S-2) and MMU Substation No. 3 (S-3). These four facilities, which are located within a few miles of each other, are used primarily for electricity generation during peak demand or during emergencies and supply electricity to the Missouri Public Utility Alliance Power Pool.

The four facilities have been deemed to be under common control and are being considered as one facility under this Title V Permit. The Macon Municipal Power Plant consists of two (2) dual fuel diesel engines generators, one (1) diesel engine generator, two (2) 10,000 gallon diesel oil fuel storage tanks, one (1) fuel oil day tank and one (1) lube oil storage tank. The MMU – NEMO Generating Station consists of a ten- (10) megawatts (MW) combined heat and power (CHP) gas turbine that fires only natural gas, with a heat recovery steam generator (HRSG). MMU S-2 consists of two (2) 1825-kilowatt (KW) diesel engine generators and MMU S-3 consists of four (4) 1825-kilowatt (KW) diesel engine generators.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
1997	0.57	0.53	10.96	0.77	2.13	-	-
1998	0.79	0.73	13.41	1.00	2.72	-	-
1999	1.06	0.99	17.57	1.33	3.59	-	-
2000	1.62	1.47	33.66	2.29	6.40	-	-
2001	0.33	0.31	4.66	0.38	1.00	-	-
2002	0.02	0.02	0.32	0.02	0.07	-	-
2003	0.48	0.45	6.87	0.57	1.48	-	-
2004	0.04	0.04	0.61	0.05	0.13	-	-

EMISSION UNITS WITH LIMITATIONS

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

Emission Unit # Description of Emission Unit

Emission Units at the Macon Municipal Power Plant – City of Macon

- EU0010 55 MMBTU/hour Nordberg CI Dual Fuel – Diesel Engine Generator (EP-02)
- EU0020 55 MMBTU/hour Worthington CI Dual Fuel – Diesel Engine Generator (EP-03)
- EU0030 800 kW Caterpillar Diesel Engine Generator (EP-04)

Emission Units at the MMU – NEMO Generating Station

- EU0040 10 MW Solar Mars Model Natural Gas Fired Combustion Turbine (EP-01)

Emission Units at the MMU – Substation No. 3

- EU0050 1825 kW Caterpillar Diesel Engine Generator (EP-11)
- EU0060 1825 kW Caterpillar Diesel Engine Generator (EP-12)
- EU0070 1825 kW Caterpillar Diesel Engine Generator (EP-13)
- EU0080 1825 kW Caterpillar Diesel Engine Generator (EP-14)

Emission Units at the MMU – Substation No. 2

EU0090 1825 kW Caterpillar Diesel Engine Generator (EP-15)
EU0100 1825 kW Caterpillar Diesel Engine Generator (EP-16)

EMISSION UNITS WITHOUT LIMITATIONS

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

Description of Emission Source

Macon Municipal Power Plant – City of Macon

10,000 Gallon Diesel Fuel Storage Tank, installed in 1968 (EP-05)
10,000 Gallon Diesel Fuel Storage Tank, installed in 1968 (EP-06)
0.35 MMBTU/hour Burnham Natural Gas Boiler, Model E-50, installed in 1987
Two (2) 0.1 MMBTU/hour Sterling Natural Gas Space Heaters
630 gallon Diesel Fuel Storage Tank (Day Tank), installed in 1968 (EP-10)
6,000 Gallon 50 Weight Lube Oil Storage Tank, installed in 1968

DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

Construction Permit No. 0289-014A, issued on February 24, 1989 to Macon Municipal Power Plant.
Construction Permit No. 072002-004, issued on June 11, 2002 to MMU – NEMO Generating Station.
Construction Permit No. 022003-012, issued on January 31, 2003 to MMU Substation No. 3.
Construction Permit No. 092003-016, issued on September 23, 2003 to MMU Substation No. 2.

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements.

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.

EU0010 through EU0030			
Macon Municipal Power Plant – Diesel Engine Generators			
EU ID	EIQ Reference # (Year)	General Description	Manufacturer/Model #
EU0010	EP-02 (2002)	Diesel Engine Generator (55MMBTU/hour rated heat input) that can fire natural gas or diesel fuel. Installed in 1968.	Nordberg, Model No. TSGL-211OSC
EU0020	EP-03 (2002)	Diesel Engine Generator (55 MMBTU/hour rated heat input) that can fire natural gas or diesel fuel. Installed in 1971	Worthington, Model No. SWCGO-VEE
EU0030	EP-04 (2002)	800 kW Diesel Engine Generator (15 MMBTU/hour rated heat input) that fires only diesel fuel. Installed in 1989.	Caterpillar, Model No. 3512 TA

<p>Permit Condition EU0010-001 through EU0030-001 10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds</p>
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Emission Limitation

- 1) Emissions from EU0010 (Nordberg Engine) shall not contain more than 2000 parts per million by volume (ppmv) of sulfur dioxide or more that 70 milligrams per cubic meter (mg/m³) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.
- 2) Emissions from each of the units EU0020 (Worthington Engine) and EU0030 (Caterpillar Engine) shall not contain more than 500 parts per million by volume (ppmv) of sulfur dioxide or more that 35 milligrams per cubic meter (mg/m³) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.
- 3) 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(4)¹ & 10 CSR 10-6.010 Ambient Air Quality Standards]

¹ 10 CSR10-6.260(4) is a state-only requirement

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.03 parts per million (ppm)	Annual arithmetic mean
	0.14 ppm (365 micrograms per cubic meter (µg/m ³))	24-hour average not to be exceeded more than once per year
	0.5 ppm (1300 µg/m ³)	three-hour average not to be exceeded more than once per year
Hydrogen Sulfide (H ₂ S)	0.05 ppm (70 µg/m ³)	½-hour average not to be exceeded over two times per year
	0.03 ppm (42 µg/m ³)	½-hour average not to be exceeded over two times in any five consecutive days
Sulfuric Acid (H ₂ SO ₄)	10 µg/m ³	24-hour average not to be exceeded more than once in any ninety consecutive days
	30 µg/m ³	One-hour average not to be exceeded more than once in any two consecutive days

The emission units shall be limited to burning fuel oil with a sulfur content of no more 0.5 percent sulfur by weight. This will ensure compliance with the emission limitation without the need for conducting compliance testing. The fuel oils known to be less than 0.5 percent by weight sulfur per Chapter 414 RSMo, section 414.032, ASTM D396-Table 1 and ASTM D975-Table 1, are fuel oil No. 1 and No. 2 and diesel fuel oil Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D. However, these units are not limited to the known fuel oils listed above, but are limited to fuel oils based solely on having a percent sulfur by weight content of 0.5 percent or less.

Monitoring:

The permittee shall monitor the percent of sulfur in the fuel oil. The sulfur content can be vendor supplied or installation generated.

Recordkeeping:

The installation shall maintain records of the fuel type used for verifying the sulfur content in the fuel. Purchase receipts, analyzed samples or certifications that verify the fuel type as a grade level with a sulfur content less than 0.5 percent by weight 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:

- 1) The permittee shall report any change of fuel type to the Air Pollution Control Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 within ten days of the switch of fuel types.
- 2) The permittee shall report to the Air Pollution Control Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any of the terms imposed by this regulation, or any malfunction which causes an exceedance of this regulation.

Permit Condition EU0030-002

10 CSR 10-6.060

Construction Permits Required – Permit No. 0289-014A, Issued on February 24, 1989

Emission Limitation

- 1) The permittee shall ensure that the EU0030 (Caterpillar Engine) shall not operate for more than 2,790 hours on a 12-month rolling average basis.
- 2) The permittee shall not emit pollutants greater than the levels established in 10 CSR 10-6.060 (7)(A), Table 1, *De Minimis* Emission Levels.

Monitoring:

None

Recordkeeping:

The permittee shall keep a running total of the hours of operation of EU0030 (Caterpillar Engine) in an annual log.

Reporting:

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

EU0040			
MMU – NEMO Generating Station – Combined Heat & Power (CHP) Gas Turbine			
EU ID	EIQ Reference # (Year)	General Description	Manufacturer/Model #
EU0040	EP-01	10 MW combustion turbine firing natural gas only and operating in combined heat and power (CHP) mode. The heat recovery steam generator does not have duct firing.	Solar, Mars Model 100 (T-15000) S Unit

Permit Condition EU0040-001

10 CSR 10-6.060

Construction Permits Required – Permit No. 072002-004, Issued on June 11, 2002

Emission Limitation:

- 1) The permittee shall emit less than forty (40) tons of nitrogen oxides NO_x in any consecutive 12-month period from the combustion turbine and the heat recovery steam generator.
- 2) If the NO_x emissions from the Combustion Turbine and Heat Recovery Steam Generator exceed the 40 ton per year emission limitation, then the permittee will be required to be re-evaluate the combustion turbine under the Prevention of Significant Deterioration review under 10 CSR 10-6.060 (8).
- 3) The permittee shall not discharge into the atmosphere from the combustion turbine any gases which contain NO_x in excess of 0.011 percent by volume (11 ppmvd) at 15 percent O₂ and on a dry basis.
- 4) The permittee shall not discharge into the atmosphere from the combustion turbine any gases which contain SO_x in excess of 0.015 percent by volume (15 ppmvd) at 15 percent O₂ and on a dry basis.

Operational Limitation:

- 1) No fuels other than natural gas shall be combusted in the Combustion Turbine and Heat Recovery Steam Generator at any time at this site.
- 2) The permittee shall not operate this turbine at loads less than fifty percent (50%) unless the turbine is in startup or shutdown mode.

Monitoring and Compliance Testing:

- 1) At least once every year, after commencement of operation, the permittee shall obtain from the fuel vendors or conduct their own fuel analysis to evaluate the typical sulfur content weight percent for natural gas.
- 2) Stack tests shall be performed for CO and NO_x on the Combustion Turbine and Heat Recovery Steam Generator at the installation in order to develop the emission factor(s) used to demonstrate compliance with the NO_x limit and verify CO emissions from the Combustion Turbine and Heat Recovery Steam Generator. The emission tests should provide emission factors for CO and NO_x for a full range of loads on the turbines (i.e. at loads from 50% to 100%) so that an accurate estimate of CO and NO_x emissions from the installation during all modes of operation can be determined. The installation shall conduct tests that represent, at a minimum, three (3) different operational scenarios for each pollutant.
- 3) The emission tests required by this permit for the turbines shall be conducted in accordance with the following methods and procedures.
 - a) The test methods and procedures outlined in 40 CFR §60.335, *Test methods and procedures*, shall be adhered to by the applicant in testing for NO_x from the combustion turbines. EPA Method 20 or other method approved by the Director shall be used to determine the NO_x emission rate.
 - b) The test methods and procedures outlined in 40 CFR Part 60, Appendix A, Method 10 or other method approved by the Director, shall be adhered to by the applicant in testing for CO.
- 4) The stack tests required by this permit shall be performed within 60 days after achieving the maximum production rate at which the turbines will be operated, but not later than 180 days after initial start-up for commercial operation of the turbines and shall be conducted in accordance with the Stack Test Procedures outlined above.
- 5) The date on which performance tests are conducted must be pre-arranged with the Air Pollution Control Program a minimum of 30-days prior to the proposed test date. The Program may arrange a pretest meeting, if necessary. A completed Proposed Test Plan form may serve the purpose of notification and must be approved by the Air Pollution Control Program prior to conducting the required emission testing.

Recordkeeping:

- 1) The permittee shall keep monthly records that are adequate to determine the NO_x emissions from the Combustion Turbine and Heat Recovery Steam Generator. These records shall also indicate the total quantity of NO_x emissions from the installation over the previous 12-month period. The records will utilize an emission factor developed during NO_x compliance testing from at least three (3) different representative operating scenarios. Attachment B, *NO_x Compliance Worksheet*, or an equivalent form of the company's own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources personnel upon request.
- 2) The fuel consumption records and statement shall be kept on-site for five (5) years and shall be made immediately available to the Missouri Department of Natural Resources' personnel upon request.

Reporting:

- 1) Two (2) copies of a written report of the performance test results shall be submitted to the Director of the Air Pollution Control Program within 30 days of completion of any required testing. The report must include legible copies of the raw data sheets, analytical instrument laboratory data, and complete sample calculations from the required EPA Method for at least one (1) sample run.
- 2) The test report is to fully account for all operational and emission parameters addressed by these permit conditions as well as in Subpart GG of the NSPS.
- 3) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month, in which performance testing has been performed and indicates non-compliance with the NO_x emission limit.

Permit Condition EU0040-002
10 CSR 10-6.070

New Source Performance Regulations

40 CFR Part 60, Subpart GG

Standards of Performance for Stationary Gas Turbines – Nitrogen Oxides (NO_x)

Emission Limitation:

NOTE: This combustion turbine (EU0040) is subject to the requirements of §60.332(a)(1) of 40 CFR Part 60 Subpart GG. Since the NO_x emission standards of Subpart GG, at 15% O₂ dry basis as determined by §60.332(a)(1) are less stringent than the NO_x emission limits of Permit No. 072002-004, the NSPS §60.332(a)(1) standards are not listed as permit conditions to this unit. Compliance with the NO_x limits in this permit will assure compliance with the §60.332(a)(1) standards.

Monitoring:

- 1) The permittee shall monitor nitrogen content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows: [40 CFR 60.334(b)]
 - a) If the turbine is supplied its fuel without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with 40 CFR 60.334(b).
[40 CFR 60.334(b)(2)]
 - b) U.S. EPA. Method 20 (40 CFR 60, Appendix A) shall be used to determine the NO_x and oxygen concentrations.
[40 CFR 60.335(c)(3)]

Recordkeeping:

The permittee shall maintain records on-site for the most recent 60 months of all records required by this permit and shall immediately make such records available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

- 1) For the purposes of reports under §60.7(c) where applicable, periods of excess emissions that shall be reported are defined as follows: [§60.334(c)]
 - a) *Emergency fuel.* Each period during which an exemption provided in 40 CFR 60.332(k) is in effect shall be included in the report required in 40 CFR 60.7(c). For each period, the type, reasons, and duration of the firing of the emergency fuel shall be reported.
[40 CFR 60.334(c)(4)]

Permit Condition EU0040-003
10 CSR 10-6.070

New Source Performance Regulations

40 CFR Part 60 Subpart GG

Standards of Performance for Stationary Gas Turbines - Sulfur Dioxide (SO₂)

Emission Limitation:

The permittee shall comply with one or the other of the following conditions:

- 1) The permittee shall not cause to be discharged into the atmosphere from this gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis. [40 CFR 60.333(a)]; or
- 2) No fuels shall be burned at this source which contain sulfur in excess of 0.8 percent by weight. [40 CFR 60.333(b)]

Monitoring:

- 1) The permittee shall monitor sulfur content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows: [40 CFR 60.334(b)]
 - a) If the turbine is supplied its fuel without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with 40 CFR 60.334(b). [40 CFR 60.334(b)(2)]
- 2) The owner or operator shall determine compliance with the sulfur content standard in 40 CFR 60.333(b) as follows: [40 CFR 60.335(d)], and as necessary
 - a) ASTM D 2880-96 shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-90(94)E-1, D 3031-81(86), D 4084-94, or D 3246-92 shall be used for the sulfur content of gaseous fuels (incorporated by reference-see 40 CFR 60.17).
 - b) The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Administrator.
 - c) Analysis for fuel sulfur content of the natural gas shall be conducted using an approved alternative method. The approved alternative method shall mean the following:
The Gas Processors Association's (GPA's) Standard 2377 (Test for Hydrogen Sulfide and Carbon Dioxide in Natural Gas Using Length of Stain Tubes), as currently in effect and as may be revised from time-to-time by the GPA. [Custom Schedule Condition 1a.]

Recordkeeping

- 1) The permittee shall maintain records of reports required under §60.7(c) and §60.334(c)(2), or pursuant to an approved custom fuel schedule.
- 2) The permittee shall maintain records on-site for the most recent 60 months of all records required by this permit and shall immediately make such records available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

- 1) For the purposes of reports under §60.7(c), periods of excess emissions that shall be reported are defined as follows: [§60.334(c)]
 - a) *Sulfur dioxide.* Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.
 [40 CFR 60.334(c)(2)]
 Compliance with the approved custom fuel schedule is said to demonstrate compliance with this applicable standard.
 - b) *Emergency fuel.* Each period during which an exemption provided in 40 CFR 60.332(k) is in effect shall be included in the report required in 40 CFR 60.7(c). For each period, the type, reasons, and duration of the firing of the emergency fuel shall be reported.
 [40 CFR 60.334(c)(4)]
- 2) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the custom fuel schedule Recordkeeping indicates an exceedance with the applicable standard pursuant to the regulation.

EU0050 through EU0100			
MMU Substation No. 3 and No. 2 – Diesel Engine Generators			
EU ID	EIQ Reference # (Year)	General Description	Manufacturer/Model #
EU0050	EP-11	1825 kW Diesel Engine Generator that fires only diesel fuel. Permitted in 2003.	Caterpillar, Model No. 3516B
EU0060	EP-12	1825 kW Diesel Engine Generator that fires only diesel fuel. Permitted in 2003.	Caterpillar, Model No. 3516B
EU0070	EP-13	1825 kW Diesel Engine Generator that fires only diesel fuel. Permitted in 2003.	Caterpillar, Model No. 3516B
EU0080	EP-14	1825 kW Diesel Engine Generator that fires only diesel fuel. Permitted in 2003.	Caterpillar, Model No. 3516B
EU0090	EP-15	1825 kW Diesel Engine Generator that fires only diesel fuel. Permitted in 2003.	Caterpillar, Model No. 3516B
EU0100	EP-16	1825 kW Diesel Engine Generator that fires only diesel fuel. Permitted in 2003.	Caterpillar, Model No. 3516B

Permit Condition EU0050-001 through EU0100-001
10 CSR 10-6.260
Restriction of Emission of Sulfur Compounds
10 CSR 10-6.060
Construction Permits Required – Permit No. 092003-016, Issued on September 22, 2003

Emission Limitation

- 1) Emissions from each of the units shall not contain more than 500 parts per million by volume (ppmv) of sulfur dioxide or more than 35 milligrams per cubic meter (mg/m³) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three 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(4)² & 10 CSR 10-6.010 Ambient Air Quality Standards]

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.03 parts per million (ppm)	Annual arithmetic mean
	0.14 ppm (365 micrograms per cubic meter (µg/m ³))	24-hour average not to be exceeded more than once per year
	0.5 ppm (1300 µg/m ³)	three-hour average not to be exceeded more than once per year
Hydrogen Sulfide (H ₂ S)	0.05 ppm (70 µg/m ³)	½-hour average not to be exceeded over two times per year
	0.03 ppm (42 µg/m ³)	½-hour average not to be exceeded over two times in any five consecutive days
Sulfuric Acid (H ₂ SO ₄)	10 µg/m ³	24-hour average not to be exceeded more than once in any ninety consecutive days
	30 µg/m ³	One-hour average not to be exceeded more than once in any two consecutive days

- 3) The sulfur content of the fuel to be used in the six (6) Caterpillar Diesel Powered 3516B Generators (EP11 – 16) shall not exceed 0.05% by weight limit per shipment for distillate fuel oil. (Special Condition # 3)

Monitoring and Recordkeeping:

MMU shall maintain records of the fuel supplier certifications or analytical testing documentation on site for not less than five (5) years for Missouri Department of Natural Resources’ review. (Special Condition # 3)

Reporting:

- 1) The permittee shall report any change of fuel type to the Air Pollution Control Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 within ten days of the switch of fuel types.
- 2) The permittee shall report to the Air Pollution Control Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any of the terms imposed by this regulation, or any malfunction which causes an exceedance of this regulation.

**Permit Condition EU0050-002 through EU0100-002
 10 CSR 10-6.060**

Construction Permits Required – Permit No. 092003-016, Issued on September 22, 2003

Emission Limitation

Macon Municipal Utilities (MMU) shall emit less than forty (40) tons of nitrogen oxide (NOx) in any consecutive twelve (12) month period from the six (6) Caterpillar Diesel Powered 3516B Generators (EP11 – 16). (Special Condition 2A)

² 10 CSR10-6.260(4) is a state-only requirement

Monitoring and Recordkeeping:

MMU shall maintain an accurate record of NOx emitted into the atmosphere from the six (6) Caterpillar Diesel Powered 3516B Generators (EP11 – 16). Attachment C or an equivalent form shall be used for this purpose. MMU shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

MMU shall report to the Air Pollution Control Program's (APCP) Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which the records from Special Condition Number 2(B) indicate that the source exceeds the limitation of Special Condition Number 2(A).

IV. Core Permit Requirements

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.

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 (a.) 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 (a.) 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 for renewal of this operating permit no sooner than eighteen months, nor later than six months, prior to the expiration date of this operating permit. The permittee shall retain the most current operating permit issued to this installation on-site and shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request.

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 due April 1 each year for emissions produced during the previous calendar year. 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/red), watch or emergency and the associated procedures and emissions 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 10-3.030 Open Burning Restrictions

The permittee shall not conduct, cause, permit or allow a salvage operation, the disposal of trade wastes or burning of refuse by open burning.

- 1) Exception - Open burning of trade waste or vegetation may be permitted only when it can be shown that open burning is the only feasible method of disposal or an emergency exists which requires open burning.
- 2) Any person intending to engage in open burning shall file a request to do so with the director. The request shall include the following:
 - 3) The name, address and telephone number of the person submitting the application; The type of business or activity involved; A description of the proposed equipment and operating practices, the type, quantity and composition of trade wastes and expected composition and amount of air contaminants to be released to the atmosphere where known;
 - 4) The schedule of burning operations;
 - 5) The exact location where open burning will be used to dispose of the trade wastes;
 - 6) Reasons why no method other than open burning is feasible; and
 - 7) Evidence that the proposed open burning has been approved by the fire control authority which has jurisdiction.
- 8) Upon approval of the open burning permit application by the director, the person may proceed with the operation under the terms of the open burning permit. Be aware that such approval shall not exempt the Macon Municipal Power Plant from the provisions of any other law, ordinance or regulation.
- 9) The permittee shall maintain files with letters from the director approving the open burning operation and previous DNR inspection reports.

10 CSR 10-3.090 Restriction of Emission of Odors

- 1) 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.

This requirement is not federally enforceable.

10 CSR 10-6.100, Alternate Emission Limits

- 1) 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 10-6.080, Emission Standards for Hazardous Air Pollutants

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

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

Title VI – 40 CFR Part 82, Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with Recordkeeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
 - g) 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.
 - h) 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.

- 3) 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

Permit Duration

10 CSR 10-6.065(6)(C)1.B.

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.

General Recordkeeping and Reporting Requirements

10 CSR 10-6.065(6)(C)1.C

Recordkeeping

- 1) 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.
- 2) 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.

Reporting

- 1) The permittee shall submit a report of all required monitoring by:
 - a) October 1st for monitoring which covers the January through June time period, and
 - b) April 1st for monitoring which covers the July through December time period.

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.
- 2) Each report must identify any deviations from emission limitations, monitoring, Recordkeeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
- 3) All reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102.
- 4) 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.
 - a) 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 you wish 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 that you 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.
 - b) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
 - i) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semiannual report shall be reported on the schedule specified in the permit.
 - ii) These supplemental reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.

- 5) 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.
- 6) The permittee may request confidential treatment of information submitted in any report of deviation.

Risk Management Plans Under Section 112(r)

10 CSR 10-6.065(6)(C)1.D.

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.

Severability Clause

10 CSR 10-6.065(6)(C)1.F.

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.

General Requirements

10 CSR 10-6.065(6)(C)1.G

- 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 re-issuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, will 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.

Incentive Programs Not Requiring Permit Revisions

10 CSR 10-6.065(6)(C)1.H.

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.

Reasonably Anticipated Operating Scenarios

10 CSR 10-6.065(6)(C)1.I.

The diesel engine generators EU0010 and EU0020 can operate on natural gas.

Title IV Allowances

Exempt from Title IV per 40 CFR 72.6(b).

Emissions Trading

10 CSR 10-6.065(6)(C)1.J.

Not Applicable

Compliance Requirements

10 CSR 10-6.065(6)(C)3.

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
 - a) 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):
 - b) 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;
 - c) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - d) 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
 - e) 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.
- 2) 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.
- 3) 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 on April 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.

Permit Shield

10 CSR 10-6.065(6)(C)6.

- 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 applicable 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 administrator's authority to obtain information, or
 - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

Emergency Provisions

10 CSR 10-6.065(6)(C)7.

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7. 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, you must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that you can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That you took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That you 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.

Operational Flexibility

10 CSR 10-6.065(6)(C)8.

- 1) 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 and the Administrator at least seven 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 established 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.

- a) 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), Recordkeeping, reporting or compliance requirements of the permit.
 - i) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program and to the Administrator, 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 this agency shall place a copy with the permit in the public file. Written notice shall be provided to the administrator and this agency 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 administrator and the permitting authority as soon as possible after learning of the need to make the change.
 - ii) The permit shield shall not apply to these changes.

Off-Permit Changes

10 CSR 10-6.065(6)(C)9.

- 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 permitting authority and to the administrator no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under paragraph (6)(B)3. of this rule. 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.

Responsible Official

10 CSR 10-6.020(2)(R)12.

The application utilized in the preparation of this was signed by Vern Kincheloe, General Manager. 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.

Reopening Permit For Cause

10 CSR 10-6.065(6)(E)6.

- 1) In accordance with 10 CSR 10-6.065(6)(E)6.A., this permit may be reopened with cause if:
 - a) 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,
 - b) 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,
 - c) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or 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,
 - d) 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
 - e) MDNR or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

Statement of Basis

10 CSR 10-6.065(6)(E)1.C.

This permit is accompanied by a statement setting forth the legal and factual basis for the draft 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.

Attachment C
Monthly NO_x Compliance Worksheet for EU0050 through EU0100– MMU-Substation No. 3

This Sheet covers the period from _____ to _____
 (month, year) (month, year)

Date	Emission Point	Description	Amount of Fuel Used This Month (Gallons)	Emission Factor (lb/gallon)	Emissions (lb) (Note 1)	NO _x Emissions (Tons) (Note 2)
	EP-11	Caterpillar 3516B Engine		0.321		
	EP-12			0.321		
	EP-13			0.321		
	EP-14			0.321		
	EP-15			0.321		
	EP-15			0.321		
Total NO _x Emissions for this Month (Note 3)						
12-Month NO _x Emissions Total from Previous Month's Worksheet (Note 4)						
Monthly NO _x Emissions Total from Previous Year's Worksheet (Note 5)						
Current 12-Month Total NO _x Emissions (Note 6)						

- Note 1: Emissions (lb) = (Amount of Fuel Used This Month) x (Emission Factor)
 Note 2: Monthly NO_x emissions (tons) = (Emissions in lb as Determined in Note 1)/2000
 Note 3: Sum of NO_x emissions reported for the Four Engines for the month.
 Note 4: Running 12-month total NO_x emissions from the previous month's worksheet.
 Note 5: NO_x emissions reported for this month in the last calendar year.
 Note 6: Amount reported for Note 4 minus the amount reported for Note 5 plus the amount reported for Note 3, not to exceed 40.0 tons for any consecutive 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 Renewal Application, received November 18, 2002;
- 2) Initial Part 70 Operating Permit (121-0004-0001) Issued on May 19, 1998.
- 3) 2002 Emissions Inventory Questionnaire, received March 19, 2003;
- 4) 2001 Emissions Inventory Questionnaire, received February 19, 2002;
- 5) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.

Applicable Requirements Included in the Operating Permit but Not in the Application

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.

10 CSR 10-6.180, *Measurement of Emissions of Air Contaminants*,

This rule has been included in the operating permit in order to provide citing for the allowance of requests for emissions data results. On past forms issued by the Air Pollution Control Program, including the application for this permit, it was automatically marked as an administrative rule not required to be listed as an applicable requirement. It is no longer judged to be solely administrative and is, therefore, included in the operating permit.

Title VI – 40 CFR Part 82, *Protection of Stratospheric Ozone*,

This rule has been included in the operating permit in order to provided citing for the use of ozone depleting substances.

40 CFR Part 68, *Chemical Accident Prevention Provisions*,

This rule has been included in the operating permit as part of the General Permit Requirements.

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 10-3.080, *Restriction of Emission of Visible Air Contaminants*,

This rule was rescinded on May 30, 2000. Control of emission of visible air contaminants is addressed in 10 CSR 10-6.220.

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. This rule also does not apply to other emission sources at the facility such as fuel storage tanks, since they emit VOCs, which do not cause opacity.

10 CSR 10-6.240, *Asbestos Abatement Projects-Certification, Notification and Performance Requirements,*

This rule has not been included in the operating permit because the rule was struck down in the Cole County circuit court.

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 that serves a generator with a nameplate capacity of greater than twenty-five megawatts. The combustion turbine and the diesel engines have a nameplate capacity of less than twenty-five megawatts each, therefore, they are not subject to this regulation.

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 liquid and gas 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 Special Condition No. 1 of the Construction Permit No. 072002-004, Issued on June 11, 2002 states the following: “ *The permittee shall not discharge into the atmosphere from the combustion turbine and the heat recovery steam generator greater than 40 tons of NO_x in any consecutive 12-month period.*”

The above language allows the facility to emit 40 tons of NO_x which was not the intent of the permit.

Thus the language of the Special Condition No. 1 was changed to: “*The permittee shall emit less than forty (40) tons of nitrogen oxides NO_x in any consecutive 12-month period from the combustion turbine and the heat recovery steam generator.*”

NSPS Applicability

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

40 CFR Part 60, Subpart GG, *Standards of Performance for Stationary Gas Turbines*

The provisions of this subpart are applicable to all stationary gas turbines, which commence construction, modification, or reconstruction after October 3, 1977, with a heat input at peak load equal to or greater than 10.7 gigajoules per hour, based on the lower heating value of the fuel fired.

The combustion turbine (EU0040) was constructed in 2002 and has a peak load greater than 10.7 gigajoules per hour. Therefore, NSPS Subpart GG applies to the combustion turbine (EU0040).

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

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, and Prior to May 19, 1978*

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 two-(2) 10,000 gallon capacity diesel storage tanks (EP-5 and 6) were installed in 1968. Therefore, the above NSPS rules do not apply.

MACT Applicability

The combined facility is a minor source for HAP emissions. Therefore, there are no MACT standards that are currently applicable to this facility.

NESHAP Applicability

10 CSR 10-6.080, *Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos*

The requirements of this rule have been summarized and listed in the operating permit.

Other Regulatory Determinations

Combined Facility Determination

A determination that the Macon Municipal Power Plant, MMU-NEMO Generating Station and MMU-Substation No. 3 are a single facility for the purpose of construction permitting was made during the permit review for Construction Permit Nos. 072002-004 and 022003-012. The determination basically states that although the three installations are within a few miles of each other and therefore not adjacent, they are under common control and provide power to the same power pool. Please refer to the detailed discussion regarding this topic under the "Installation Description" Section of the Construction Permit No. 072002-004.

The same reasoning, as provided in these construction permits, has been used in this Title V Review. Consequently, the three installations are being reviewed as one facility under this permit and are collectively referred to as Macon Municipal Power Plant.

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

The CAM rule applies to each pollutant specific emission unit that meets the following:
Be subject to an emission limitation or standard, and
Use a control device to achieve compliance, and
Have 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.

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

The original Title V Permit for the Macon Municipal Power Plant (Permit No. 121-0004-0001) allowed the permittee to combust fuel that has a sulfur content by weight of up to 3 percent in the Nordberg Engine (EU0010 in this permit), and up to 0.8 percent sulfur by weight in the Worthington and Caterpillar Engines (EU0020 and EU0030 in this permit, respectively). These sulfur limits were based on a back calculation from the allowable sulfur dioxide limits in ppmv for existing (pre-1971) and new engines (1971 and post 1971).

Fuel and distillate oil greater than 0.5 weight percent sulfur are no longer sold in Missouri as stipulated under Chapter 414 RSMo (Revised Missouri Statutes) and as administered by the Missouri Department of Agriculture. Therefore, the fuel sulfur content limit by weight was reset to 0.5 percent in this Permit for EU0010 through EU0030. For emission units EU0050 through EU0080, the construction permit 022003-012 has imposed a stricter restriction of 0.05 percent by weight of sulfur in fuel instead of the 0.5 weight percent sulfur; therefore the stricter limit has been listed for these emission units.

The APCP has also determined that using less than 0.5 percent by weight of sulfur in the fuel, should be sufficient to demonstrate compliance with the SO₂ ambient air quality standards of 10 CSR 10-6.010, therefore a SCREEN air dispersion model analysis was not conducted.

Fugitive Emissions: Permit Condition PW001

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

The regulation applies to fugitive particulate emissions, with the intent of restricting and preventing fugitive emissions from traveling off property. There are no fugitive emission sources of particulate matter that have been designated for this installation. However, the installation will be required to inspect its premises when and if construction or demolition is occurring on site.

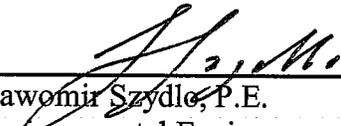
Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

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 APCP'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).

Prepared by:



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