



**Missouri Department of Natural Resources**  
**Air Pollution Control Program**

## **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 herein.

**Operating Permit Number:** OP2013-060  
**Expiration Date:** OCT 07 2018  
**Installation ID:** 121-0004  
**Project Number:** 2011-06-003

**Installation Name and Address**

Macon Municipal Power Plant  
P.O. Box 569  
Macon, MO 63552  
Macon County

**Parent Company's Name and Address**

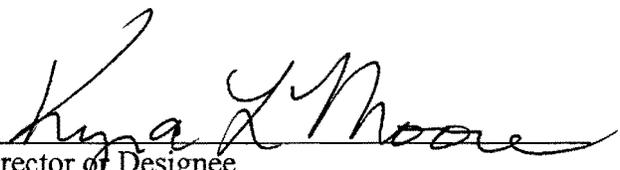
Macon Municipal Utilities  
106 W. Bourke Street  
Macon, MO 63552

**Installation Description:**

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. This facility is major for CO, NO<sub>x</sub> and SO<sub>x</sub> emissions.

OCT 08 2013

Effective Date

  
Director of Designee  
Department of Natural Resources

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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

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. This facility is major for CO, NO<sub>x</sub> and SO<sub>x</sub> emissions.

The Macon Municipal Power Plant consists of one (1) dual fuel diesel engine generator, 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) megawatt (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.

<b>Reported Air Pollutant Emissions, tons per year</b>					
Pollutants	2012	2011	2010	2009	2008
Particulate Matter ≤ Ten Microns (PM <sub>10</sub> )	0.01	0.04	0.04	0.03	---
Particulate Matter ≤ 2.5 Microns (PM <sub>2.5</sub> )	0.01	0.04	0.04	0.03	---
Sulfur Oxides (SO <sub>x</sub> )	0.04	0.11	0.11	0.09	---
Nitrogen Oxides (NO <sub>x</sub> )	0.64	1.73	1.61	1.35	---
Volatile Organic Compounds(VOC)	0.04	0.14	0.13	0.11	---
Carbon Monoxide (CO)	0.13	0.37	0.35	0.29	---

Note: There was no production at this facility in 2008.

### EMISSION UNITS WITH LIMITATIONS

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

<u>Emission Unit #</u>	<u>Description of Emission Unit</u>
<b>Emission Units at Macon Municipal Power Plant – City of Macon</b>	
EU03	55 MMBtu/hr Worthington CI Dual-Fuel Diesel Engine Generator (EP-03)
EU04	800 kW Caterpillar Diesel Engine Generator (EP-04)

**Emission Units at the MMU-NEMO Generating Station**

EU01 10 MW Solar Mars Natural Gas Fired Combustion Turbine (EP-01)

**Emission Units at the MMU – Substation No. 3**

EU11 1825 kW Caterpillar Diesel Engine Generator (EP-11)

EU12 1825 kW Caterpillar Diesel Engine Generator (EP-12)

EU13 1825 kW Caterpillar Diesel Engine Generator (EP-13)

EU14 1825 kW Caterpillar Diesel Engine Generator (EP-14)

**Emission Units at the MMU – Substation No. 2**

EU15 1825 kW Caterpillar Diesel Engine Generator (EP-15)

EU16 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

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10,000 Gallon Diesel Fuel Storage Tank, installed in 1968 (EP-05)

10,000 Gallon Diesel Fuel Storage Tank, installed in 1968 (EP-06)

630 Gallon Diesel Fuel Storage Tank (EP-10)

10 Natural Gas Space Heaters (INS-02)

6,000 Gallon Lube Oil Storage Tank (INS-03)

Pressure Washer (INS-04)

1,100 Gallon Above Ground Gasoline Storage Tank (INS-05)

Six (6) 3,000 Gallon diesel Fuel Storage Tanks (INS-06)

## **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>PERMIT CONDITION 001</b> <b>10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds</b>
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Emission Unit	Description	Manufacturer/Model #	2012 EIQ Reference #
EU03	Diesel Engine Generator: 55 MMBtu/hr; Fuel: Natural Gas and Diesel; Installed 1971	Worthington/SWCGO-VEE	EP-03
EU04	800 kW Diesel Engine Generator; 15 MMBtu/hr; Fuel: Diesel; Installed 1985	Caterpillar/3512 TA	EP-04

**Emission Limitation:**

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

**Operational Limitation/Equipment Specifications:**

The emission unit shall be limited to burning number 2 fuel oil with a sulfur content less than 0.5% (diesel fuel) and natural gas in these emission units as appropriate.

**Monitoring/Recordkeeping:**

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

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the annual monitoring report and annual compliance certification to the Air Pollution Control Program's 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 002**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit No. 0289-014A, Issued February 24, 1989**

Emission Unit	Description	Manufacturer/Model #	2012 EIQ Reference #
EU04	800 kW Diesel Engine Generator; 15 MMBtu/hr; Fuel: Diesel; Installed 1985	Caterpillar/3512 TA	EP-04

**Emission Limitation:**

- 1) The permittee shall ensure that EU04 (Caterpillar Engine) shall not operate for more than 2,790 hours in any consecutive 12-month period. [Special Condition 1]
- 2) The permittee shall not emit pollutants greater than the levels established in 10-6.060(7)(A), Table 1, *De Minimis* Emission Levels. [Special Condition 4]

**Monitoring/Recordkeeping:**

The permittee shall keep a running total of the hours of operation of EU04 that demonstrate that engine meets the operational limitation. These records shall be kept on site for a minimum of five years and made available to Department of Natural Resources' personnel upon request. [Special Condition 2]

**Reporting:**

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 records indicate that this emission limitation has been exceeded.

**PERMIT CONDITION 003**  
**10 CSR 10-6.075 Maximum Achievable Control Technology Regulations**  
**40 CFR Part 63 Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

Emission Unit	Description	Manufacturer/Model #	2012 EIQ Reference #
EU03	Diesel Engine Generator: 55 MMBtu/hr; Fuel: Natural Gas and Diesel; Installed 1971	Worthington/SWCGO-VEE	EP-03
EU04	800 kW Diesel Engine Generator; 15 MMBtu/hr; Fuel: Diesel; Installed 1985	Caterpillar/3512 TA	EP-04

40 CFR 63 Subpart ZZZZ applicable requirements listed by citation:			
Engine Category	Emergency CI	Monitoring, Installation, Collection, Operation and Maintenance Requirements	63.6625(e), (f), (h), (i)
Date Constructed	Before 6/12/2006	Initial Compliance	No Requirements
Compliance Date	May 3, 2013	Continuous Compliance	63.6605 63.6640
Emission Limitations	63.6603 Table 2d	Notification Requirements	No Requirements
Operating Limitations	No Requirements	Recordkeeping Requirements	63.6655 (except 63.6655(c))
Fuel Requirements	No Requirements	Reporting Requirements	Footnote 1 of Table 2d §63.6640(b)
Performance Tests	No Requirements	General Provisions (40 CFR Part 63)	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).

**Emission Limitations:**

Table 2d of 40 CFR Part 63 Subpart ZZZZ:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
Emergency stationary CI RICE and black start stationary CI RICE. <sup>2</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; <sup>1</sup>	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	

**Monitoring:**

- 1) The permittee shall operate and maintain start up engines according to the manufacturer;s emission-related written instructions. [§63.6625(e)]
- 2) The permittee shall install a non-resettable hour meter if one is not already installed. [§63.6625(f)]
- 3) The permittee shall minimize the engine’s time spent at idle during startup and minimize the engine’s startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. [§63.6625(h)]

**Continuous Compliance:**

- 1) The permittee shall demonstrate compliance according to the methods specified in Table 6 to this subpart: [§63.6640(a)]

**Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, and Other Requirements**

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing non-emergency stationary RICE <100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing non-emergency 2SLB stationary RICE located at an area source of HAP, existing non-emergency stationary SI RICE located at an area source of HAP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, existing non-emergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year, and existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that are remote stationary RICE	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

- 2) The permittee shall be in compliance with the operating limitations and other requirements in this subpart that apply at all times. [§63.6605(a)]
- 3) At all times the permittee shall operate and maintain any affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions. [§63.6605(b)]

**Recordkeeping/Reporting:**

The permittee shall keep records and submit reports as described in §63.6655 (except §63.6655(c)) and Footnote 1 of Table 2d §63.6640(b).

**PERMIT CONDITION 004**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit No. 072002-004, Issued June 11, 2002**

Emission Unit	Description	Manufacturer/Model #	2012 EIQ Reference #
EU01	10 MW combustion turbine: Fuel: Natural Gas only; Operating in combined heat and power mode (CHP); Installed 2003	Solar, Mars/100 (T-15000) S Unit	EP-01

**Emission Limitations:**

- 1) The permittee shall not discharge into the atmosphere from EU01 – Combustion Turbine, NOx in excess of 40 tons in any consecutive 12-month period. [Special Condition 1A]
- 2) No fuels other than natural gas shall be combusted in EU01 – Combustion Turbine at any time at this site. [Special Condition 2A]
- 3) The permittee shall not operate this turbine at loads less than fifty percent (50%) unless the turbine is in startup or shutdown mode. [Special Condition 2B]

**Monitoring/Recordkeeping:**

- 1) The permittee shall keep monthly records that are adequate to determine the NOx emissions from the Combustion Turbine. These records shall also indicate the total quantity of NOx emissions from the installation over the previous 12-month period. These records will utilize an emission factor developed during NOx compliance testing from at least three (3) different representative operating scenarios.
- 2) Attachment A or an equivalent form should be used to keep records. Records shall be maintained on site for a minimum of five years and made available to Department of Natural Resources' personnel upon request. [Special Condition 1B]
- 3) At least once every year, the permittee shall obtain from the fuel vendors or conduct a fuel analysis to evaluate the typical sulfur content weight percent for natural gas. The fuel consumption records and statement shall be kept on site for five years and made available to the Missouri Department of Natural Resources' personnel upon request. [Special Condition 2C]

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the end of the month that the records indicate that the NOx emission limitation has been exceeded. [Special Condition 1C]

**PERMIT CONDITION 005**  
**10 CSR 10-6.070 New Source Performance Regulations**  
**40 CFR Part 60 Subpart GG Standards of Performance for Stationary Gas Turbines**

Emission Unit	Description	Manufacturer/Model #	2012 EIQ Reference #
EU01	10 MW combustion turbine: Fuel: Natural Gas only; Operating in combined heat and power mode (CHP); Installed 2003	Solar, Mars/100 (T-15000) S Unit	EP-01

**Emission Limitation:**

- 1) The permittee shall not cause to be discharged into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides (NOx) in excess of 0.0092 percent by volume at 15 percent oxygen and on a dry basis. This limitation was derived from the equation in 40 CFR §60.332(a)(2) as follows.

$$STD = 0.0075(14.4/y) + F$$

Where y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour = 11.73 kilojoules/W-hr; and

F = NOx emission allowance for fuel-bound nitrogen as defined in 40 CFR 60 §332(a)(4) = 0.

- 2) The permittee shall comply with one of the following conditions:
  - a) 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. [§60.333(a)]; or
  - b) No fuels shall be burned at this source which contain sulfur in excess of 0.8 percent by weight. [§60.333(b)]

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the annual monitoring report and annual compliance certification to the Air Pollution Control Program's 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 006**  
**10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit No. 092003-016, Issued September 22, 2003**

Emission Unit	Description	Manufacturer/Model #	2012 EIQ Reference #
EU11	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-11
EU12	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-12
EU13	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-13
EU14	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-14
EU15	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2004	Caterpillar/3516B	EP-15
EU16	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2004	Caterpillar/3516B	EP-16

**Emission Limitation:**

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

**Operational Limitation/Equipment Specifications:**

The sulfur content of the fuel shall not exceed 0.05% by weight limit per shipment for distillate fuel oil. [Special Condition 3]

**Monitoring/Recordkeeping:**

- 1) The permittee shall maintain an accurate record of the sulfur content of fuel used. Fuel purchase receipts, analyzed samples or certifications that verify the fuel type and sulfur content will be acceptable. [Special Condition 3]
- 2) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
- 3) All records shall be maintained for five years.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the annual monitoring report and annual compliance certification to the Air Pollution Control Program’s 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 007**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit No. 092003-016, Issued September 22, 2003**

Emission Unit	Description	Manufacturer/Model #	2012 EIQ Reference #
EU11	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-11
EU12	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-12
EU13	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-13
EU14	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-14
EU15	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2004	Caterpillar/3516B	EP-15
EU16	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2004	Caterpillar/3516B	EP-16

**Emission Limitation:**

The permittee shall not discharge into the atmosphere from EU11 through EU16 – Diesel Generators, NO<sub>x</sub> in excess of 40 tons total in any consecutive 12-month period. [Special Condition 2A]

**Monitoring/Recordkeeping:**

The permittee shall maintain an accurate record of NO<sub>x</sub> emitted into the atmosphere from the six (6) Caterpillar Diesel Generators (EU11-EU16). Attachment B or an equivalent form shall be used for this purpose. MMU shall maintain all records required for not less than five years and shall make them available to any Missouri Department of Natural Resources’ personnel upon request. [Special Condition 2B]

**Reporting:**

The permittee shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the end of the month that the records indicate that the NO<sub>x</sub> emission limitation has been exceeded. [Special Condition 2C]

**PERMIT CONDITION 008**  
**10 CSR 10-6.075 Maximum Achievable Control Technology Regulations**  
**40 CFR Part 63 Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for**  
**Stationary Reciprocating Internal Combustion Engines**

Emission Unit	Description	Manufacturer/Model #	2012 EIQ Reference #
EU11	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-11
EU12	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-12
EU13	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-13
EU14	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2003	Caterpillar/3516B	EP-14
EU15	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2004	Caterpillar/3516B	EP-15
EU16	1825 kW Diesel Engine Generator that fires only diesel fuel; Installed 2004	Caterpillar/3516B	EP-16

40 CFR 63 Subpart ZZZZ applicable requirements listed by citation:			
Engine Category	Emergency CI/black start	Monitoring, Installation, Collection, Operation and Maintenance Requirements	63.6625(e), (f), (h), (i)
Date Constructed	Before 6/12/2006	Initial Compliance	No Requirements
Compliance Date	May 3, 2013	Continuous Compliance	63.6605 63.6640
Emission Limitations	63.6603 Table 2d	Notification Requirements	No Requirements
Operating Limitations	No Requirements	Recordkeeping Requirements	63.6655 (except 63.6655(c))
Fuel Requirements	No Requirements	Reporting Requirements	Footnote 1 of Table 2d §63.6640(b)
Performance Tests	No Requirements	General Provisions (40 CFR Part 63)	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).

**Emission Limitations:**

Table 2d of 40 CFR Part 63 Subpart ZZZZ:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
Emergency stationary CI RICE and black start stationary CI RICE. <sup>2</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; <sup>1</sup>	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	

**Monitoring:**

- 1) The permittee shall operate and maintain start up engines according to the manufacturer;s emission-related written instructions. [§63.6625(e)]
- 2) The permittee shall install a non-resettable hour meter if one is not already installed. [§63.6625(f)]
- 3) The permittee shall minimize the engine’s time spent at idle during startup and minimize the engine’s startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. [§63.6625(h)]

**Continuous Compliance:**

- 1) The permittee shall demonstrate compliance according to the methods specified in Table 6 to this subpart: [§63.6640(a)]

**Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, and Other Requirements**

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing non-emergency stationary RICE <100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing non-emergency 2SLB stationary RICE located at an area source of HAP, existing non-emergency stationary SI RICE located at an area source of HAP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, existing non-emergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year, and existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that are remote stationary RICE	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

- 2) The permittee shall be in compliance with the operating limitations and other requirements in this subpart that apply at all times. [§63.6605(a)]

- 3) At all times the permittee shall operate and maintain any affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions. [§63.6605(b)]

**Recordkeeping/Reporting:**

The permittee shall keep records and submit reports as described in §63.6655 (except §63.6655(c)) and Footnote 1 of Table 2d §63.6640(b).

## IV. Core Permit Requirements

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

### 10 CSR 10-6.045 Open Burning Requirements

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

- iv) St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- 3) Certain types of materials may be open burned provided an open burning permit is obtained from the director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- 4) Macon Municipal 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 Macon Municipal 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 Recordkeeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005, shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the director.
- 6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971, is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

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

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

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

#### **10 CSR 10-6.060 Construction Permits Required**

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

#### **10 CSR 10-6.065 Operating Permits**

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(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 submit full emissions report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on Emission Inventory Questionnaire (EIQ) paper forms on the frequency specified in this rule and in accordance with the requirements outlined in this rule. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the director.
- 2) The permittee may be required by the director to file additional reports.

- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall 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.
- 5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the emissions report.
- 6) The permittee shall complete required reports on state supplied EIQ forms or electronically via MoEIS. Alternate methods of reporting the emissions can be submitted for approval by the director. The reports shall be submitted to the director by April 1 after the end of each reporting year. If the full emissions report is filed electronically via MoEIS, this due date is extended to May 1.
- 7) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 8) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

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

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

#### **10 CSR 10-6.150 Circumvention**

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

#### **10 CSR 10-6.170**

##### **Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin**

##### **Emission Limitation:**

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

- d) Application of water; and
- e) Planting and maintenance of vegetative ground cover.

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

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

#### **10 CSR 10-6.165 Restriction of Emission of Odors**

**This requirement is not federally enforceable.**

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour. This odor evaluation shall be taken at a location outside of the installation's property boundary.

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

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
  - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
  - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
  - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
  - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
  - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
  - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
  - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.

- d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
- e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
- f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
- 5) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

#### **10 CSR 10-6.280 Compliance Monitoring Usage**

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
  - a) Monitoring methods outlined in 40 CFR Part 64;
  - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
  - c) Any other monitoring methods approved by the director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
  - a) Monitoring methods outlined in 40 CFR Part 64;
  - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
  - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
  - a) Applicable monitoring or testing methods, cited in:
    - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
    - ii) 10 CSR 10-6.040, "Reference Methods";
    - iii) 10 CSR 10-6.070, "New Source Performance Standards";
    - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
  - b) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.

## V. General Permit Requirements

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

### **10 CSR 10-6.065(6)(C)1.B Permit Duration**

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

### **10 CSR 10-6.065(6)(C)1.C General Recordkeeping and Reporting Requirements**

- 1) Recordkeeping
  - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
  - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
  - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
  - b) The permittee shall submit a report of all required monitoring by:
    - i) 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, recordkeeping, 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 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 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 days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

#### **10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)**

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

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

#### **10 CSR 10-6.065(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 noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to

the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted 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)1.J Emissions Trading**

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 April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, as well as the Air Pollution Control Program's 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 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 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 noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
  - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
  - b) That the installation was being operated properly,
  - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
  - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

### **10 CSR 10-6.065(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's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, 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 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), recordkeeping, 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's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, 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's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, no later than the next annual emissions report. This 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 Stephanie Wilson, 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.

#### **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) The Missouri Department of Natural Resources or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 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 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) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

#### **10 CSR 10-6.065(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**

NOx Compliance Worksheet for EP-11 through EP16

This sheet covers the period from \_\_\_\_\_ to \_\_\_\_\_  
 (month/yr) (month/yr)

Column A	Column B	Column C	Column D	Column E (a)
Emission Point(s)	Description	Amount of fuel used (gal)	NOx Emission Factor (lb/gal)	NOx Emissions (tons)
EP11	Caterpillar Diesel Powered 3516B Generator		0.321	
EP12	Caterpillar Diesel Powered 3516B Generator		0.321	
EP13	Caterpillar Diesel Powered 3516B Generator		0.321	
EP14	Caterpillar Diesel Powered 3516B Generator		0.321	
EP15	Caterpillar Diesel Powered 3516B Generator		0.321	
EP16	Caterpillar Diesel Powered 3516B Generator		0.321	
(b) Total NOx emissions calculate or this month in tons:				
(c) 12-month NOx emissions total from previous month's worksheet, in tons:				
(d) Monthly NOx emissions total (b) from previous year's worksheet, in tons:				
(e) Current 12-month total of NOx emissions in tons: [(b) +(c) -(d)]				

- (a) [Column E] = [Column C] x [Column D] x 0.0005;
- (b) Summation of [Column E] in tons;
- (c) 12-month NOx emissions total (e) from last month's worksheet, in tons;
- (d) Monthly Nox emissions total (b) from previous year's worksheet, in tons;
- (e) Calculate the new 12-month NOx emissions total.

**A 12-month NOx emissions total of less than 40.0 tons indicates compliance.**

## 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 June 1, 2011;
- 2) 2012 Emissions Inventory Questionnaire, received January 25, 2013; and
- 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 0289-014A, Issued February 24, 1989
- 5) Construction Permit 072002-004, Issued June 11, 2002;
- 6) Construction Permit 022003-012, Issued January 31, 2003; and
- 7) Construction Permit 092003-016, Issued September 22, 2003.

### 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.

### Construction Permit Revisions

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

#### Construction Permit No. 022003-012, Issued January 31, 2003

The special conditions of this construction permit were not included in the operating permit because they were superseded by the conditions of Construction Permit No. 092003-016, Issued September 22, 2003.

#### Construction Permit 072002-004, Issued June 11, 2002

Special Condition 3 requires that stack tests be performed for CO and NO<sub>x</sub> to develop emission factors used to demonstrate compliance. Since these stack tests have already been performed, Special Condition 3 of this permit was not included in the operating permit.

### **New Source Performance Standards (NSPS) Applicability**

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

This regulation applies to EU01-10 MW Solar Mars Natural Gas Fired Combustion Turbine. This regulation includes emissions limitations for NO<sub>x</sub> and SO<sub>x</sub>. Because the unit does not use water injection to control NO<sub>x</sub> and because it burns exclusively pipeline grade natural gas, no monitoring or recordkeeping is required by this subpart. The NO<sub>x</sub> and SO<sub>x</sub> emission limitations are included in the permit under Permit Condition 005.

40 CFR Part 60 Subpart IIII, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*; and

40 CFR Part 60 Subpart JJJJ, *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines*

These regulations do not apply to the generators at this facility because they were installed prior to the applicable dates.

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 for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984*

The two 10,000 gallon capacity diesel storage tanks (EP-5 and EP-6) were installed in 1968. Therefore, NSPS Subparts K and Kb do not apply.

### **Maximum Achievable Control Technology (MACT) Applicability**

40 CFR Part 63 Subpart YYYY, *National Emission Standards for Hazardous Air Pollutants for Stationary Gas Turbines*

This regulation does not apply to EU01-10 MW Solar Mars Natural Gas Fired Combustion Turbine because this facility is not a major source of HAP emissions.

40 CFR Part 63 Subpart ZZZZ, *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.

This regulation applies to EU03, EU04, and EU11 through EU16 – Diesel Engine Generators. Macon Municipal Utilities gave notice in a letter received in June 2013 from Stephanie Wilson, General Manager, that Emission Units EU03, EU04 and EU11 through EU16, the generators, will be re-classified from standby use to emergency use. These units are no longer included as a “pool” resource by Missouri Public Utility Alliance’s (MPUA) MJMEUC/MoPEP group, effective May 1, 2013.

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

In the permit application and according to Air Pollution Control Program records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If

the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

### **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.

### **Updated Potential to Emit for the Installation**

<b>Pollutant</b>	<b>Potential to Emit (tons/yr)<sup>1</sup></b>
CO	469.1
CO <sub>2</sub> e	47,736
HAP	0.81
NO <sub>x</sub>	232.7
PM <sub>10</sub>	5.12
PM <sub>2.5</sub>	5.12
SO <sub>x</sub>	175.5
VOC	16.5

<sup>1</sup>PTE was calculated taking into consideration the 40 ton per year NO<sub>x</sub> limit on the combustion turbine. This limited the turbine to 4513 hours of operation per year based on the emission factor (obtained through testing) of 14.78 lb/hr at 50% nominal load. The PTE of the generators was based on 500 hours of operation per year.

### **Other Regulatory Determinations**

None.

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

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

- 1) The specific pollutant regulated by that rule is not emitted by the installation;
- 2) The installation is not in the source category regulated by that rule;
- 3) The installation is not in the county or specific area that is regulated under the authority of that rule;
- 4) The installation does not contain the type of emission unit which is regulated by that rule;
- 5) The rule is only for administrative purposes.

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

Prepared by:

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Jill Wade, P.E.  
Environmental Engineer

Ms. Stephanie Wilson  
Macon Municipal Power Plant  
P.O. Box 569  
Macon, MO 63552

Re: Macon Municipal Power Plant, 121-0004  
Permit Number: **OP2013-060**

Dear Ms. Wilson:

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 that you read and understand the requirements contained in your permit.

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

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

Sincerely,

AIR POLLUTION CONTROL PROGRAM

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

MJS:jwk

Enclosures

c: Northeast Regional Office  
PAMS File: 2011-06-003