



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: OP2013-024
Expiration Date: April 17, 2018
Installation ID: 095-0022
Project Number: 2009-07-061

Installation Name and Address

Kansas City Power & Light Company- Hawthorn Generating Station
8700 Hawthorn Road
Kansas City, MO 64120
Jackson County

Parent Company's Name and Address

Great Plains Energy, Inc.
P.O. Box 418679
Kansas City, MO 64141

Installation Description:

Kansas City Power & Light – Hawthorn Generating Station is a power plant located in Jackson County. Units include a 6745 MMBtu/hour boiler capable of burning natural gas and coal; a 1864 MMBtu/hr natural gas stationary gas combustion turbine and a heat recovery steam generator with 724.9 MMBtu/hr natural gas duct burners; two (2) 100 MW simple cycle natural gas combustion turbines; two 45.7 MMBtu/hr natural gas auxiliary boilers; emergency generator and fire pump engine; gasoline storage tank; parts washer; and coal handling.

JUL 12 2013

Effective Date


Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Kansas City Power & Light – Hawthorn Generating Station is a power plant located in Jackson County. Units include a 6745 MMBtu/hour boiler capable of burning natural gas and coal; a 1864 MMBtu/hr natural gas stationary gas combustion turbine and a heat recovery steam generator with 724.9 MMBtu/hr natural gas duct burners; two (2) 100 MW simple cycle natural gas combustion turbines; two 45.7 MMBtu/hr natural gas auxiliary boilers; emergency generator and fire pump engine; gasoline storage tank; parts washer; and coal handling. Units removed or dismantled since the previous operating permit was issued included a 150,000 gallon gasoline storage tank that was converted to a water tank; a parts washer; and two paint booths.

Reported Air Pollutant Emissions, tons per year					
Pollutants	2011	2010	2009	2008	2007
Particulate Matter ≤ Ten Microns (PM ₁₀)	189.87	283.32	373.58	267.77	288.52
Particulate Matter ≤ 2.5 Microns (PM _{2.5})	167.38	258.55	98.35	90.88	101.05
Sulfur Oxides (SO _x)	1800.05	1946.03	2016.55	1725.44	1923.40
Nitrogen Oxides (NO _x)	1424.73	1494.57	1591.75	1465.46	1503.73
Volatile Organic Compounds(VOC)	28.98	12.13	7.74	14.68	23.41
Carbon Monoxide (CO)	2007.08	2233.41	2781.25	2406.55	2686.73
Lead (Pb)	0.04	0.04	.04	0.04	0.02
Hazardous Air Pollutants (HAPs)	2.80	2.87	10.08	7.00	9.13
Ammonia (NH ₃)	8.43	8.74	4.07	5.46	49.26

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.

Emission Unit #	Description of Emission Unit
EU0010	Unit 5A Boiler
EU0020	Unit 6/9 Combustion Turbine
EU0030	Unit 7 Simple Cycle Combustion Turbine
EU0040	Unit 8 Simple Cycle Combustion Turbine
EU0050	Auxiliary Boiler #1
EU0060	Auxiliary Boiler #2

EU0070	Emergency Generator
EU0080	Fire Pump Engine
EU0090	Unleaded Gasoline Tank
EU0110	Parts Washer #1
EU0130	Coal Handling

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

Propane Portable Heating Unit #1 (0.375 MMBtu/hr)
Propane Portable Heating Unit #2 (0.375 MMBtu/hr)
Gasoline Compressor #1 (0.093 MMBtu/hr, 1993)
Gasoline Compressor #2 (0.093 MMBtu/hr, 1993)
Gasoline Powered Steam Cleaner (0.093 MMBtu/hr, 1993)
Diesel Storage Tank (7000 gallons, Installed 1994)
Emergency Diesel Generator Storage Tank (350 gallons, Installed 1986)
Diesel Fire Engine Pump Storage Tank (120 gallons, Installed 2001)
Lube Oil or Seal Oil Vents
Water Chemistry
Analytical Chemistry
Coal Storage Pile
Fly Ash Pile
Fly Ash Pond
Fly Ash Handling
Lime Pellet Handling
Haul Roads

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.

EU0010 Unit 5A Boiler		
Emission Unit	Description	2011 EIQ Reference #
EU0010	Steam generating boiler capable of burning natural gas and coal; MHDR = 6745 MMBtu/hr; Installed 2001	EP06

<p>Permit Condition EU0010-001 10 CSR 10-6.060 Construction Permits Required City of Kansas City Health Department Air Quality Section Permit No. 888 (amended 02/15/01) 40 CFR Part 64 Compliance Assurance Monitoring</p>

Emission Limitations:

1. NO_x Emission Limitations
 - a) The permittee shall not emit into the atmosphere nor allow the emission rate of NO_x from the operation of emission unit EU0010 to exceed 0.08 lbs/MMBtu on a 30-day rolling average, excluding periods of startup, shutdown and malfunction.
 - b) The permittee shall not emit into the atmosphere nor allow the emission rate of NO_x from the operation of emission unit EU0010 to exceed 0.10 lbs/MMBtu, averaged on a 24-hour basis, excluding periods of start-up, shutdown and malfunction.
2. SO₂ Emission Limitations
 - a) The permittee shall not emit into the atmosphere nor allow the emission rate of SO₂ from the operation of emission unit EU0010 to exceed 0.12 lbs/MMBtu on a 30-day rolling average, excluding periods of startup, shutdown and emergency situations. (For purposes of this permit, “emergency” is as described in 40 CFR Part 60, Subpart Da.)
 - b) The permittee shall not emit into the atmosphere nor allow the emission rate of SO₂ from the operation of emission unit EU0010 to exceed 1.6 lbs/MMBtu, averaged on a 3-hour basis, and 0.54 lbs/MMBtu, averaged on a 24-hour basis, excluding periods of startup, shutdown and emergency situations.
 - c) The pre-controlled emission rate of SO₂, as measured at the scrubber inlet, for emission unit EU0010 shall not exceed 1.60 lbs SO₂/MMBtu.
3. The permittee shall not emit into the atmosphere nor allow the emission rate of PM₁₀ from the operation of emission unit EU0010 to exceed 0.018 lbs/MMBtu on a 30-day rolling average, excluding periods of startup, shutdown and emergency situations.
4. The permittee shall not emit into the atmosphere nor allow the emission rate of VOC from the operation of emission unit EU0010 to exceed 0.0036 lbs/MMBtu on a 30-day rolling average, excluding periods of startup, shutdown and emergency situations.

5. The permittee shall not emit into the atmosphere nor allow the emission rate of CO from the operation of emission unit EU0010 to exceed 0.16 lbs/MMBtu excluding periods of startup, shutdown and emergency situations.
6. The permittee shall not emit into the atmosphere nor allow the emission rate of lead from the operation of emission unit EU0010 to exceed 0.6 tons in any consecutive 12-month period.

Equipment and Operation Parameters:

1. The NO_x Best Available Control Technology (BACT) limit shall be achieved by using selective catalytic reduction (SCR) and combustion control methods.
2. The SO₂ BACT limit shall be achieved by utilizing a dry flue gas desulfurization (FGD) system and low-sulfur coal.
3. The PM₁₀ BACT limit shall be achieved by utilizing a fabric filter system.
4. The VOC BACT limit shall be achieved by utilizing good combustion practices.
5. The CO BACT limit shall be achieved by utilizing good combustion practices.
6. In order to complete a performance evaluation of the NO_x controls for agency support of an amendment to the BACT NO_x emission rate limit of 0.08 lbs/MMBtu in *Emission Limitations* Item (1a) and 0.10 lbs/MMBtu in *Emission Limitations* Item (1b) above, the permittee must design, install, operate and maintain the SCR system to achieve 0.08 lbs/MMBtu during and after the evaluation period and fulfill the following requirements in addition to Items 1 through 4 under *Reporting*:
 - a) The permittee shall select a proper catalyst and SCR installation to minimize ammonia slip and prevent catalyst erosion and poisoning. The permittee shall ensure good distribution and mixing of injected ammonia in the flue gas. Catalyst shall be sized with respect to the BACT emission limit of 0.08 lbs NO_x /MMBtu.
 - b) The permittee shall apply good engineering combustion including the use of a low NO_x burner.
7. The Unit 5 baghouse shall be installed, operated and maintained in accordance with the manufacturer's specifications.
8. The baghouse shall be equipped with a gauge or meter which indicates the pressure drop across the baghouse compartments.
 - a) This gauge or meter shall be located such that it may be easily observed by the Kansas City Air Quality Program and Missouri Department of Natural Resources' employees.
 - b) The operating pressure drop on the Unit 5 baghouse shall be maintained within the design conditions specified by the manufacturer's performance warranty.
9. Replacement bags for the baghouse shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance and abrasion resistance).

Air Dispersion Modeling/Ambient Air Monitoring/Continuous Emission Monitoring Systems/Performance Testing:

1. The permittee shall install and operate continuous emission monitoring systems (CEMS) in accordance with 40 CFR Part 60, Subpart Da (including paragraph (k) requirements of 60.47a) and 40 CFR Part 75. 40 CFR Part 75 shall take precedence in any conflict between Part 75 and Part 60 CEMS requirements in accordance with EPA guidance.
2. In addition to any stack testing required by an applicable regulation, the permittee shall conduct the following tests to demonstrate compliance with the PM₁₀, VOC and CO emission limits listed in *Emission Limitations* Items (3), (4) and (5). The following tests shall be performed annually.

- a) The permittee shall conduct stack tests in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, Method 202 (condensable PM₁₀), Method 25 and Method 10.
 - i) During the tests, the permittee shall maintain records of the operational parameters necessary to demonstrate compliance with PM₁₀, VOC and CO emissions on a pound per MMBtu basis.
 - ii) The permittee shall notify the Air Quality Program (AQP) not less than 30 days before the test date. The Air Quality Program, Missouri Department of Natural Resources (MDNR) and the U.S. Environmental Protection Agency (EPA) shall be afforded the opportunity to witness the testing.
 - iii) Two copies of a written report of test results including PM₁₀, VOC and CO emissions on a pound per MMBtu basis shall be submitted to the Air Quality Program within 30 days of test completion. 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 sample run.

Recordkeeping/Monitoring:

1. The permittee shall maintain records of NO_x emissions in lbs/MMBtu, based on a 30-day rolling average to show compliance with the *Emission Limitations* Item (1a).
2. The permittee shall maintain records of NO_x emissions in lbs/MMBtu, based on a 24-hour average to show compliance with the *Emission Limitations* Item (1b).
3. The permittee shall maintain records of SO₂ emissions in lbs/MMBtu, based on a 30-day rolling average to show compliance with the *Emission Limitations* Item (2a).
4. The permittee shall maintain records of SO₂ emissions in lbs/MMBtu, averaged on a 3-hour basis and 24-hour basis to show compliance with the *Emission Limitations* Item (2b).
5. The permittee shall maintain monthly lead emissions to show compliance with the limits in *Emission Limitations* Item (6). For each month the records will include the total emissions of lead for the previous 12-month period.
6. This unit is subject to the CAM plan contained in table 1 below:

Table 1: KCP&L Hawthorn – CAM Monitoring Approach	
Particulate Matter (PM₁₀) Compliance Indicator	
Indicator	Stack Opacity
Measurement Approach	Continuous Opacity Monitoring System (COMS)
Indicator Range	The following operational levels are based on stack testing information supplied by the permittee
	An excursion is defined as a measured stack opacity greater than 13.0 percent, based on a three-hour block average, excluding those events defined as startup, shutdown or malfunction
	Excursions trigger an inspection, corrective action, and a reporting requirement.
Performance Criteria	
Data Representativeness	Opacity is related to the size and concentration of particles in the flue gas. As particulate mass emissions increase, it can be reasonable expected that stack opacity will also increase.
	The boiler discharges to a dedicated stack with no bypass capabilities. The stack is equipped with a COMS that meets the installation and

	minimum acceptable accuracy requirements as specified in the applicable version of 40 CFR Part 60, Appendix B, Performance Specification 1 (PS-1). The COMS is located downstream of the baghouse and, therefore, reflects the performance of the control device.
Verification of Operational Status	Not applicable since the selected monitoring approach utilizes an existing COMS that was initially installed and evaluated per the applicable version of PS-1.
QA/QC Practices and Criteria	Perform a daily zero and calibration drift check, periodic cleaning of optical surfaces and other periodic QA/QC checks as specified for the COMS in the applicable version of PS-1.
Monitoring Frequency	Continuous [i.e., the COMS is to complete a minimum of one cycle (i.e., sampling, analyzing, and data recording) for each successive 10-second period].
Averaging Period	Three-hour block averages.
Data Collection Procedure	The COMS collects a data point every ten seconds and is recorded into a data acquisition and handling system (DAHS). Opacity is continuously displayed at the master control room. The DAHS reduces the data to three-hour block averages.
Corrective Action	Upon detecting an excursion, KCP&L shall investigate the cause of the excursion and restore operation of the control device to its normal manner of operation as expeditiously as possible.
Reporting	Summary information of the number, duration, and cause for any excursions and COMS downtime will be reported on a semi-annual basis in the Semi-annual Monitoring Report for the Part 70 Operating Permit.

7. The permittee shall maintain an operating and maintenance log for the baghouses which shall include the following:
 - a) Incidents of malfunction with impact on emissions, duration of event, probable cause and corrective actions; and
 - b) Maintenance activities with inspection schedule, repair actions and replacements, etc.
8. The permittee shall maintain all additional records required to demonstrate compliance with all applicable regulations and special conditions of this permit.
9. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
10. The permittee shall have SCR system quality assurance procedures, including monitoring and operating procedures available for inspection upon request.
11. All records shall be maintained for five years.

Reporting:

1. The permittee shall report any event resulting in non-compliance of the conditions of this permit to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the event.
2. The permittee shall submit any additional reports required by 40 CFR Part 60, Subpart Da (60.49a and 60.7(d)) or any other applicable regulation.

Permit Condition EU0010-002

10 CSR 10-6.070

New Source Performance Regulations

40 CFR 60 Subpart Da

Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978

Emission Limitations:

1. The permittee shall not emit particulate matter in excess of 0.03 pounds per million BTU heat input derived from the combustion of solid, liquid or gaseous fuels, one percent of the potential combustion concentration (99 percent reduction) when combusting solid fuel and 30 percent of potential combustion concentration (70 percent reduction) when combusting liquid fuel. (40 CFR 60.42a(a))
2. The permittee shall not cause to be discharged into the atmosphere from the affected emission unit any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. (40 CFR 60.42a(b))
3. The permittee shall not allow the affected emission unit, which combusts solid fuel or solid derived fuel, to discharge any gases which contain sulfur dioxide in excess of 30 percent of the potential combustion concentration (70 percent reduction) when emissions are less than 0.60 pounds per million BTU heat input. (40 CFR 60.43a(a))
4. The permittee shall not allow the affected emission unit, which combusts liquid or gaseous fuels, to discharge any gases which contain sulfur dioxide in excess of 100 percent of the potential combustion concentration (0 percent reduction) when emissions are less than 0.20 pounds per million BTU heat input. (40 CFR 60.43a(b))
5. The permittee shall not allow the affected emission unit, which combusts different fuels simultaneously, to discharge any gases which contain sulfur dioxide in excess of the standards computed using the formulas contained in 40 CFR 60.43a(h).
6. The permittee shall not allow the affected emission unit to discharge any gases which contain nitrogen oxides in excess of 1.6 pounds per megawatt-hour gross energy output, based on a 30-day rolling average, except as provided under 40 CFR 60.46a(k)(1). (40 CFR 60.44a(d)(1))

Monitoring:

1. The permittee shall install, calibrate, maintain and operate continuous monitoring systems in accordance with 40 CFR 60.47a for measuring the following.
 - a) Opacity of emissions discharged to the atmosphere (40 CFR 60.47a(a));
 - b) Sulfur dioxide emissions (40 CFR 60.47a(b));
 - c) Nitrogen oxide emissions (40 CFR 60.47a(c)); and
 - d) Oxygen or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxide emissions are monitored (40 CFR 60.47a(d))
2. The permittee shall install, calibrate, maintain and operate the following meters in accordance with 40 CFR 60.47a. (40 CFR 60.47a(k))
 - a) A watt meter to measure gross electrical output in megawatt-hour on a continuous basis; and
 - b) Steam flow, temperature and pressure meters to measure gross process steam output in joules per hour or Btu per hour on a continuous basis.
3. The permittee shall install, certify, operate and maintain a continuous flow monitoring system for measuring the flow of exhaust gases discharged to the atmosphere in accordance with 40 CFR 60.47a. (40 CFR 60.47a(l) and (m))

Recordkeeping:

1. The permittee shall record the output of the continuous monitoring systems for
 - a) Opacity (40 CFR 60.47a(a));
 - b) Sulfur dioxide (40 CFR 60.47a(b));
 - c) Nitrogen oxides (40 CFR 60.47a(c));
 - d) Oxygen or carbon dioxide (40 CFR 60.47a(d));
 - e) Gross electrical output in megawatt-hour (40 CFR 60.47a(k));
 - f) Gross process steam output in joules per hour or Btu per hour (40 CFR 60.47a(k)); and
 - g) Flow of exhaust gases (40 CFR 60.47a(l) and (m))
2. The permittee shall maintain records of the following (40 CFR 60.7(b)):
 - a) The occurrence and duration of any startup, shutdown or malfunction in the operation of an affected facility;
 - b) Any malfunction of the air pollution control equipment; or
 - c) Any periods during which a continuous monitoring system or monitoring device is inoperative.
3. The permittee shall maintain a file of the following (40 CFR 60.7(f)):
 - a) All measurements, including continuous monitoring system, monitoring device and performance testing measurements;
 - b) All continuous monitoring system performance evaluations;
 - c) All continuous monitoring system or monitoring device calibration checks;
 - d) Adjustments and maintenance performed on these systems or devices; and
 - e) All other information required by this part in a permanent format suitable for inspection.
4. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
5. All records shall be maintained for five years.

Reporting:

1. The permittee shall submit for sulfur dioxide and nitrogen oxides for each 24-hour period the information required by 40 CFR 60.49a(b).
2. If the minimum quantity of emission data as required by 40 CFR 60.47a is not obtained for any 30 successive boiler operating days, the information required by 40 CFR 60.49a(c) obtained under the requirements of 40 CFR 60.46a(h) is reported for that 30-day period.
3. If the standards under 40 CFR 60.43a are exceeded during emergency conditions because of control system malfunction, the permittee shall submit a signed statement including the information required by 40 CFR 60.49a(d).
4. If fuel pretreatment credit toward the sulfur dioxide emission standard under 40 CFR 60.43a is claimed, the permittee shall submit a signed statement including the information required by 40 CFR 60.49a(e).
5. For any periods for which opacity, sulfur dioxide or nitrogen oxides emissions data are not available, the permittee shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability (40 CFR 60.49a(f)).
6. The permittee shall submit a signed statement indicating whether (40 CFR 60.49a(g)):
 - a) The required continuous monitoring system calibration, span and drift checks or other periodic audits have or have not been performed as specified;

- b) The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance;
 - c) The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors were unavoidable;
 - d) Compliance with the standards has or has not been achieved during the reporting period.
7. The permittee shall submit opacity levels in excess of the applicable opacity standard and the date of such excesses (40 CFR 60.49a(h)).
 8. The permittee shall submit excess emissions and monitoring systems performance reports that include the information required by 40 CFR 60.7(c).
 9. The permittee shall submit written reports required under 40 CFR 60.49a and 40 CFR 60 Subpart A quarterly for each three-month period. All quarterly reports shall be postmarked by the 30th day following the end of each three-month period (40 CFR 60.49a(i)).
 10. The permittee may submit electronic quarterly reports for SO₂ and/or NO_x and/or opacity in lieu of submitting the written reports required under 40 CFR 60.49a(b) and (h) (40 CFR 60.49a(j)).
 - a) The format of each quarterly report shall be coordinated with the permitting authority.
 - b) The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the permittee indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period.
 - c) Before submitting reports in the electronic format, the permittee shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.
 11. All reports shall be submitted in duplicate to the following agencies:
 - a) Region VII, Director, Air and Toxics Division, U.S. Environmental Protection Agency, 11201 Renner Boulevard, Lenexa, KS 66219;
 - b) Missouri Department of Natural Resources, Division of Environmental Quality, P.O. Box 176, Jefferson City, MO 65102;
 - c) City of Kansas City Health Department Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108

Permit Condition EU0010-003

10 CSR 10-6.362 Clean Air Interstate Rule Annual NO_x Trading Program
10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NO_x Trading Program
10 CSR 10-6.366 Clean Air Interstate Rule SO_x Trading Program

Emission Limitation:

The permittee shall obtain a CAIR Source Permit for the Unit 5A Boiler.

A CAIR Permit (Missouri Department of Natural Resources project 2007-07-004, ORIS Code 2079) is being issued to the permittee in conjunction with this Title V permit. (See Attachment A)

Monitoring/Recordkeeping:

The permittee shall retain the most current CAIR permit issued to this installation on-site and shall make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Annual Compliance Certification.

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

Permit Condition EU0010-004

10 CSR 10-6.270

Acid Rain Source Permits

Emission Limitation:

The permittee shall obtain an Acid Rain Source Permit for Unit5A (EU0010) pursuant to Title IV of the Clean Air Act. Kansas City Power and Light - Hawthorn submitted a Phase II permit application on June 18, 2009 under 10 CSR 10-6.270, "Acid Rain Source Permits Required." The Phase II permit (Missouri Department of Natural Resources project #2009-06-063, ORIS Code 2079) is being issued with this permit and is effective from January 1, 2010 through December 31, 2014.

Monitoring/Recordkeeping:

The permittee shall retain the most current acid rain permit issued to this facility on-site (See Attachment B) and shall make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Annual Compliance Certification

Permit Condition EU0010-005

10 CSR 10-6.075

Maximum Achievable Control Technology Regulations

40 CFR Part 63 Subpart UUUUU

National Emission Standards for Hazardous Air Pollutants: Coal and Oil-Fired Electric Utility Steam Generating Units

Boiler 5A meets the definition of a coal-fired electric utility steam generating unit (EGU) within §63.10042. The boiler was installed in 2001, classifying it as an existing coal-fired EGU and affected source per §63.9982(a)(1).

The standards applied within this operating permit are those promulgated February 16, 2012, as corrected April 19, 2012. If these standards should later be delayed, amended, or replaced, the permittee shall comply with the delayed, amended, or replacement standards.

Compliance item	CFR Location
Notifications	§63.10030
Initial Compliance	§63.10005 and §63.10011
Continuous Compliance	§63.10021 and Table 7 to 40 CFR Part 63, Subpart UUUUU
Continuous Compliance using Emissions Averaging	§63.10022
Monitoring and Data Collection:	§63.10020
General Provisions:	Table 9 of 40 CFR Part 63, Subpart UUUUU
Emissions Averaging:	§63.10009
Monitoring, Installation, Operation, and Maintenance	§63.10010
PM CPMS	§63.10023
Subsequent Performance Tests and Tune-ups	§63.10006(a)
Test Methods and Procedures	§63.10007, Tables 5 and 6 to 40 CFR Part 63, Subpart UUUUU

40 CFR Part 63, Subpart UUUUU Table 2 - Emission Limits for Existing EGUs

[As stated in § 63.9991, the permittee shall comply with the following applicable emission limits]¹

Pollutants (a, b, and c)		Emission Limit
a.	Filterable particulate matter (PM)	0.030 lb/MMBtu or 0.30 lb/MWh ²
	<u>OR</u> Total non-Hg HAP metals	0.000050 lb/MMBtu or 0.50 lb/GWh
	<u>OR</u> Individual HAP metals:	Antimony (Sb)
		Arsenic (As)
		Beryllium (Be)
		Cadmium (Cd)
		Chromium (Cr)
		Cobalt (Co)
		Lead (Pb)
		Manganese (Mn)
		Nickel (Ni)
		Selenium (Se)
	<u>AND</u> b. Hydrogen Chloride (HCl)	0.0020 lb/MMBtu or 0.020 lb/MWh
	<u>OR</u> Sulfur Dioxide (SO ₂) ⁴	0.20 lb/MMBtu or 1.5 lb/MWh
	<u>AND</u> c. Mercury (Hg)	1.2 lb/TBtu or 0.013 lb/GWh

¹For LEE emissions testing for total PM, total HAP metals, individual HAP metals, and HCl, the required minimum sampling volume shall be increased nominally by a factor of two.

²Gross electric output.

³The permittee may not use the alternate SO₂ limit if the EGU does not have some form of FGD system and SO₂ CEMS installed.

40 CFR Part 63, Subpart UUUUU Table 3 – Work Practice Standards

[As stated in § 63.9991, the permittee shall comply with the following applicable work practice standards]

EGU	Work Practice Standards
Existing EGU	Conduct a tune-up of the EGU burner and combustion controls at least each 36 calendar months, or 48 calendar months if neural network combustion optimization software is employed, as specified in §63.10021(e).
Coal-fired EGUs during startup	The permittee shall operate all CMS during startup. Startup means either the first-ever firing of fuel in a boiler for the purpose of producing electricity, or the firing of fuel in a boiler after a shutdown event for any purpose. Startup ends when any of the steam from the boiler is used to generate electricity for sale over the grid or for any other purpose (including on site use). For startup of a unit, the permittee shall use clean fuels, either natural gas or distillate oil or a combination of clean fuels for ignition. Once the permittee converts to firing coal, the permittee shall engage all of the applicable control technologies except dry scrubber and SCR. The permittee shall start the dry scrubber and SCR systems, if present, appropriately to comply with relevant standards applicable during normal operation. The permittee shall comply with all applicable emissions limits at all times except for periods that meet the definitions of startup and shutdown. The permittee shall retain records during periods of startup. The permittee shall provide reports concerning activities and periods of startup, as specified in §63.10011(g) and § 63.10021(h) and (i).
Coal-fired EGUs during shutdown	The permittee shall operate all CMS during shutdown. Shutdown means the cessation of operation of a boiler for any purpose. Shutdown begins either when none of the steam from the boiler is used to generate electricity for sale over the grid or for any other purpose (including on-site use) or at the point of no fuel being fired in the boiler. Shutdown ends when there is both no electricity being generated and no fuel being fired in the boiler. During shutdown, the permittee shall operate all applicable control technologies while firing coal. The permittee shall comply with all applicable emissions limits at all times except for periods that meet the definitions of startup and shutdown. The permittee shall retain records during periods of startup. The permittee shall provide reports concerning activities and periods of startup, as specified in § 63.10011(g) and § 63.10021(h) and (i).

40 CFR Part 63, Subpart UUUUU Table 4 - Operating Limits for Existing EGUs

[As stated in § 63.9991, the permittee shall comply with the following applicable operating limits]

Method of Compliance	Operating Limits
PM CPMS	Maintain the 30-boiler operating day rolling average PM CPMS output at or below the highest 1-hour average measured during the most recent performance test demonstrating compliance with the filterable PM, total non-mercury HAP metals, individual non-mercury HAP metals emissions limitation(s).

Initial Compliance:

1. For each of your affected EGUs, the permittee must demonstrate initial compliance with each applicable emissions limit in Table 1 or 2 of this subpart through performance testing. Where two emissions limits are specified for a particular pollutant (e.g., a heat input-based limit in lb/MMBtu and an electrical output-based limit in lb/MWh), the permittee may demonstrate compliance with either emission limit. For a particular compliance demonstration, one or more of the following activities may be required in conjunction with performance testing: collection of hourly electrical load data (megawatts); establishment of operating limits according to § 63.10011 and Tables 4 and 7 to this subpart; and CMS performance evaluations. In all cases, initial compliance must be demonstrated no later than the applicable date in paragraph (f) of this section for tune-up work

practices for existing EGUs, in § 63.9984 for other requirements for existing EGUs, and in paragraph (g) of this section for all requirements for new EGUs. [§63.10005(a)]

2. Tune-ups. All affected EGUs are subject to the work practice standards in Table 3 of this subpart. As part of the initial compliance demonstration, the permittee must conduct a performance tune-up of your EGU according to § 63.10021(e). [§63.10005(e)]
3. The permittee must submit a Notification of Compliance Status summarizing the results of the initial compliance demonstration, as provided in § 63.10030. [§63.10005(k)]

Continuous Compliance/Monitoring:

1. The permittee must demonstrate continuous compliance with each applicable emissions limit, operating limit, and work practice standard in Tables 1 through 4 to 40 CFR Part 63 Subpart, according to the monitoring specified in Tables 6 and 7 to 40 CFR Part 63 Subpart UUUUU and paragraphs (b) through (g) of section §63.10021 of Subpart UUUUU.

40 CFR Part 63, Subpart UUUUU Table 6 – Establishing PM CPMS Operating Limits

If you have an applicable emission limit for . . .	And you choose to establish PM CPMS operating limits, you must . . .	And . . .	Using . . .	According to the following procedures . . .
Particulate matter (PM), total non-mercury HAP metals, individual non-mercury HAP metals, total HAP metals, individual HAP metals	Install, certify, maintain, and operate a PM CPMS for monitoring emissions discharged to the atmosphere according to § 63.10010(g)(1)	Establish a site-specific operating limit in units of PM CPMS output signal (e.g., milliamps, mg/acm, or other raw signal)	Data from the PM CPMS and the PM or HAP metals performance tests	<ol style="list-style-type: none"> 1. Collect PM CPMS output data during the entire period of the performance tests. 2. Record the average hourly PM CPMS output for each test run in the three run performance test. 3. Determine the highest 1-hour average PM CPMS measured during the performance test demonstrating compliance with the filterable PM or HAP metals emissions limitations.

Table 7 to Subpart UUUUU of Part 63—Demonstrating Continuous Compliance

If you use one of the following to meet applicable emissions limits, operating limits, or work practice standards . . .	You demonstrate continuous compliance by . . .
1. CEMS to measure filterable PM, SO ₂ , HCl, HF, or Hg emissions, or using a sorbent trap monitoring system to measure Hg	Calculating the 30- (or 90-) boiler operating day rolling arithmetic average emissions rate in units of the applicable emissions standard basis at the end of each boiler operating day using all of the quality assured hourly average CEMS or sorbent trap data for the previous 30-boiler operating days, excluding data recorded during periods of startup or shutdown.

2. PM CPMS to measure compliance with a parametric operating limit	Calculating the arithmetic 30-boiler operating day rolling average of all of the quality assured hourly average PM CPMS output data (e.g., milliamps, PM concentration, raw data signal) collected for all operating hours for the previous 30 boiler operating days, excluding data recorded during periods of startup or shutdown.
3. Site-specific monitoring for liquid oil-fired units for HCl and HF emission limit monitoring	If applicable, by conducting the monitoring in accordance with an approved site-specific monitoring plan.
4. Quarterly performance testing for coal-fired, solid oil derived fired, or liquid oil-fired units to measure compliance with one or more applicable emissions limit in Table 1 or 2	Calculating the results of the testing in units of the applicable emissions standard.
5. Conducting periodic performance tune-ups of your EGU(s)	Conducting periodic performance tune-ups of your EGU(s), as specified in § 63.10021(e).
6. Work practice standards for coal-fired, liquid oil-fired, or solid oil-derived fuel-fired EGUs during startup	Operating in accordance with Table 3 of 40 CFR Part 63 Subpart UUUUU.
7. Work practice standards for coal-fired, liquid oil-fired, or solid oil-derived fuel-fired EGUs during shutdown	Operating in accordance with Table 3 of 40 CFR Part 63 Subpart UUUUU

2. The permittee must monitor and collect data according to this section and the site-specific monitoring plan required by § 63.10000(d). [§63.10020(a)]
3. The permittee must operate the monitoring system and collect data at all required intervals at all times that the affected EGU is operating, except for periods of monitoring system malfunctions or out-of-control periods (see § 63.8(c)(7) of this part), and required monitoring system quality assurance or quality control activities, including, as applicable, calibration checks and required zero and span adjustments. The permittee is required to affect monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable. [§63.10020(b)]
4. The permittee may not use data recorded during EGU startup or shutdown or monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, or required monitoring system quality assurance or control activities in calculations used to report emissions or operating levels. The permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system. [§63.10020(c)]
5. Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks and required zero and span adjustments), failure to collect required data is a deviation from the monitoring requirements. [§63.10020(d)]

Compliance Dates:

1. The permittee shall comply with 40 CFR Part 63, Subpart UUUUU by no later than April 16, 2015. [§63.9984(b)]
2. The permittee may apply for an extension allowing up to one additional year to comply with the standards. [CAA §112(i)(3)(B)]
3. The permittee shall meet the notification requirements in §63.10030 according to the schedule in §63.10030 and in 40 CFR Part 63, Subpart A. Some of the notifications must be submitted before the permittee is required to comply with the emission limits and work practice standards. [§63.9984(c)]
4. The permittee shall demonstrate that compliance has been achieved, by conducting the required performance tests and other activities, no later than 180 days after April 16, 2015. [§63.9984(f)]

Recordkeeping:

1. The permittee shall refer to §63.10032 and §63.10033 for recordkeeping requirements specific to 40 CFR Part 63, Subpart UUUUU.
2. Records may be kept in either written or electronic form.
3. These records shall be made available for inspection to Department of Natural Resources' personnel upon request.
4. All records shall be retained for five years.

Reporting:

1. The permittee shall refer to §63.10031 and Table 8 of 40 CFR Part 63, Subpart UUUUU for reporting requirements specific to 40 CFR Part 63, Subpart UUUUU.
2. The permittee shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after an exceedance or a malfunction which could cause an exceedance of the emission limitations.
3. The permittee shall report any deviations from the standards, compliance provisions, performance testing, test methods, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

EU0020			
Unit 6/9 Combustion Turbine			
Emission Unit	Description	Manufacturer/Model #	2002 EIQ Reference #
EU0020	This emission unit is comprised of an 1864 MMBtu/hr natural gas stationary gas combustion turbine and a heat recovery steam generator with 724.9 MMBtu/hr natural gas duct burners. The turbine can operate in simple cycle mode as a stand-alone unit or in conjunction with the heat recovery steam generator to form a combined cycle combustion turbine. The original turbine was installed in 1997. The heat recovery steam generator was installed in 2000.	Siemens V84.3A Nooter Ericksen	EP101 EP901

Permit Condition EU0020-001

10 CSR 10-6.060

Construction Permits Required

City of Kansas City Health Department Air Quality Section Permit No. 883-A

Emission Limitations:

Simple Cycle Mode:

1. The permittee shall not emit more than 25 ppmv of NO_x at loads of 100 MW or greater and 42 ppmv at loads less than 100 MW corrected to 15 percent oxygen on a dry basis from emission unit EU0020 in simple cycle mode. Basis of limitation is a block 24-hour (midnight to midnight) average.
2. The permittee shall not emit more than 45.49 lb/hr of CO during steady state operation at full load from emission unit EU0020 in simple cycle mode.
3. The permittee shall not emit more than 18 lb/hr of PM₁₀ from emission unit EU0020 in simple cycle mode.

Combined Cycle Mode:

4. The permittee shall not emit more than four ppmv of NO_x corrected to 15 percent oxygen on a dry basis from emission unit EU0020. Basis of limitation is a 30 day rolling average.
5. The permittee shall not emit more than ten ppmv of CO corrected to 15 percent oxygen on a dry basis while above 70 percent load and 25 ppmv CO corrected to 15 percent oxygen on a dry basis while at 70 percent load and below from emission unit EU0020.
6. The permittee shall not emit more than 22.6 lb/hr of PM₁₀ from emission unit EU0020.
7. The permittee shall not emit more than 22.9 lb/hr VOC while above 70 percent load and 6.3 lb/hr VOC while at 70 percent load or below from emission unit EU0020.
8. The permittee shall not emit more than 150 ppm of SO₂ corrected to 15 percent oxygen on a dry basis.

Equipment and Operation Parameters:

Simple Cycle Mode:

1. Emission unit EU0020 shall be fired only with natural gas and propane as a start-up fuel.
2. Emission unit EU0020 in simple cycle mode shall use low-NO_x burner technology and good combustion practices to reduce emissions of NO_x.
3. Emission unit EU0020 in simple cycle mode shall be limited to no more than nine hours per day and no more than nine consecutive hours unless an emergency situation exists in accordance with 10 CSR 10-6.065(6)(C)7 and verified by the Air Quality Program within one working day of the notification.
4. Emission unit EU0020 in simple cycle mode may continue to operate without regard to the nine hour restriction as long as the emergency situation exists.
5. Non-availability of the selective catalytic reduction or carbon monoxide catalytic controls shall not be covered under such emergency conditions.
6. Emission unit EU0020 in simple cycle mode shall not operate more than 3285 hours annually.

Combined Cycle Mode:

7. Selective catalytic reduction to control NO_x emissions and oxidation catalyst to control CO emissions shall be installed, maintained and operated while emission unit EU0020 is in operation.

Monitoring/Testing:

Simple Cycle Mode:

1. Compliance with the NO_x emission limitation stated above shall be demonstrated with continuous emissions monitors (CEMs) based on a block 24-hour (midnight to midnight) average and calculated separately for each operating mode.
2. The NO_x CEM shall be installed, operated and maintained in accordance with 40 CFR 72, Acid Rain, and 40 CFR 75, Continuous Emission Monitors.
3. Compliance with PM₁₀ and CO emission limitations were demonstrated through completed stack testing. No additional monitoring requirements are required to demonstrate compliance with these emission limitations.

Combined Cycle Mode:

4. Compliance with the NO_x emission limitation stated above shall be demonstrated with continuous emissions monitors (CEMs) based on rolling 30-day averages and calculated separately for each operating mode.
5. The NO_x CEM shall be installed, operated and maintained in accordance with 40 CFR 72, Acid Rain, and 40 CFR 75, Continuous Emission Monitors.
6. Compliance with the CO limitations stated above is to be determined on an annual basis through stack testing.
 - a) Stack tests to determine the concentrations of CO shall be conducted in accordance with EPA Method 10 or 10B as published in the July 1, 1998 edition of 40 CFR Part 60 Appendix A.
 - b) Changes or modifications to the EPA methodologies must be reviewed and approved by the Air Quality Program prior to the stack test.
 - c) For all stack tests, Kansas City Power and Light Company shall notify the permitting authority at least thirty days in advance. A pre-test meeting shall be scheduled prior to the test date if requested following notification. Kansas City Power and Light Company shall be represented by an individual who is qualified to discuss the test methods and procedures. The State of Missouri Department of Natural Resources and the United States Environmental Protection Agency will be afforded the opportunity to attend the pre-test meeting and the actual test.
7. Compliance with PM₁₀, VOC and SO₂ emission limitations were demonstrated through completed stack testing. No additional monitoring requirements are required to demonstrate compliance with these emission limitations.

Recordkeeping/Reporting:

Simple Cycle Mode:

1. The permittee shall provide all supporting documentation for the declaration of an emergency situation.
2. The permittee shall submit to the Air Quality Program not later than 30 days after the end of each calendar quarter a quarterly report quantifying the pollution emission rates for NO_x reported in ppmv corrected to 15 percent oxygen on a dry basis and the fuel type and quantity.
 - a) Parameters shall be reported under every operating condition that the turbines are operated.
 - b) The daily average concentration for NO_x along with the calculated monthly and daily limit for NO_x shall be derived from this report. (Note: NO_x emissions from emission unit EU0020 in simple cycle mode shall not affect 30 day NO_x emission rates for emission unit EU0020 when operating in combined cycle mode.)
 - c) These reports shall be deemed sufficient to meet the requirements for NO_x emission reporting found in 40 CFR 60 Subpart GG.
3. All records shall be maintained for five years.

Combined Cycle Mode:

4. Stack test results shall be submitted to the Air Quality Program within 60 days of the stack testing.

5. The permittee shall submit to the Air Quality Program not later than 30 days after the end of each calendar quarter a quarterly report quantifying the pollution emission rates for NO_x reported in ppmv corrected to 15 percent oxygen on a dry basis and the fuel type and quantity.
6. Parameters shall be reported under every operating condition that the turbines are operated.
 - a) The monthly average concentration for NO_x along with the calculated monthly and daily limit for NO_x shall be derived from this report. (Note: NO_x emissions from emission unit EU0020 in simple cycle mode shall not affect 30 day NO_x emission rates for emission unit EU0020 when operating in combined cycle mode.)
 - b) These reports shall be deemed sufficient to meet the requirements for NO_x emission reporting found in 40 CFR 60 Subparts Da and GG.
7. All records shall be maintained for five years.

Permit Condition EU0020-002
10 CSR 10-6.070
New Source Performance Regulations
40 CFR 60 Subpart Da
**Standards of Performance for Electric Utility Steam Generating Units for Which Construction
is Commenced After September 18, 1978**
40 CFR 60 Subpart GG
Standards of Performance for Stationary Gas Turbines

Emission Limitations:

Simple Cycle Mode:

1. On or after the date on which the performance test is required to be conducted by §60.8 is completed, the permittee shall comply with one or the other of the following conditions (40 CFR 60.333):
 - a) The permittee shall not cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent O₂ and on a dry basis; or
 - b) The permittee shall not burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.

Combined Cycle Mode:

2. On or after the date on which the performance test is required to be conducted by §60.8 is completed, the permittee shall comply with one or the other of the following conditions (40 CFR 60.333):
 - a) The permittee shall not cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent O₂ and on a dry basis; or
 - b) The permittee shall not burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.
3. The permittee shall not emit particulate matter in excess of 0.03 pounds per million BTU heat input derived from the combustion of solid, liquid, or gaseous fuels (40 CFR 60.42a(a)).
4. The permittee shall not cause to be discharged into the atmosphere from the affected installation any gases which exhibit greater than 20 percent opacity (six-minute average), except for one 6-minute period per hour of not more than 27 percent opacity (40 CFR 60.42a(b)).
5. The permittee shall not allow the affected installation, which combusts liquid or gaseous fuel, to discharge any gases which contain sulfur dioxide in excess of the following on a 30-day rolling average basis (40 CFR 60.43a(b)):

- a) 0.80 pounds per million Btu heat input and ten percent of the potential combustion concentration (90 percent reduction); or
 - b) 100 percent of the potential combustion concentration (0 percent reduction) when emissions are less than 0.20 lb/million Btu heat input.
6. The permittee shall not allow the affected installation to discharge any gases which contain nitrogen oxides in excess of 1.6 pounds per megawatt-hour gross energy output based on a 30-day rolling average (40 CFR 60.44a(d)(1)).

Monitoring/Testing:

Simple Cycle Mode:

1. Compliance with the NO_x emission limitation stated above shall be demonstrated with continuous emissions monitors (CEMs) based on a block 24-hour (midnight to midnight) average and calculated separately for each emission unit.
2. The NO_x CEMs shall be installed, operated and maintained in accordance with 40 CFR 72, Acid Rain, and 40 CFR 75, Continuous Emission Monitors.

Combined Cycle Mode:

3. Compliance with the NO_x emission limitation stated above shall be demonstrated with continuous emissions monitors (CEMs) based on rolling 30-day averages and calculated separately for each emission unit.
4. The NO_x CEMs shall be installed, operated and maintained in accordance with 40 CFR 72, Acid Rain, and 40 CFR 75, Continuous Emission Monitors.
5. The permittee shall install, calibrate, maintain and operate continuous monitoring systems in accordance with 40 CFR 60.47a for measuring the following.
 - a) Nitrogen oxide emissions (40 CFR 60.47a(c)); and
 - b) Oxygen or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxide emissions are monitored (40 CFR 60.47a(d))
6. The permittee shall install, calibrate, maintain and operate the following meters in accordance with 40 CFR 60.47a. (40 CFR 60.47a(k))
 - a) A watt meter to measure gross electrical output in megawatt-hour on a continuous basis; and

Recordkeeping:

Simple Cycle Mode:

1. The permittee shall maintain records of the sulfur content of the fuel being fired.
2. The permittee shall maintain records of the following (40 CFR 60.7(b)):
 - a) The occurrence and duration of any startup, shutdown or malfunction in the operation of an affected facility;
 - b) Any malfunction of the air pollution control equipment; or
 - c) Any periods during which a continuous monitoring system or monitoring device is inoperative.
3. The permittee shall maintain a file of the following (40 CFR 60.7(f)):
 - a) All measurements, including continuous monitoring system, monitoring device and performance testing measurements;
 - b) All continuous monitoring system performance evaluations;
 - c) All continuous monitoring system or monitoring device calibration checks;
 - d) Adjustments and maintenance performed on these systems or devices; and
 - e) All other information required by this part in a permanent format suitable for inspection.

Combined Cycle Mode:

4. The permittee shall record the output of the continuous monitoring systems for fuel consumption.

5. The permittee shall maintain records of the sulfur content of the fuel being fired.
6. The permittee shall maintain records of the following (40 CFR 60.7(b)):
 - a) The occurrence and duration of any startup, shutdown or malfunction in the operation of an affected facility;
 - b) Any malfunction of the air pollution control equipment; or
 - c) Any periods during which a continuous monitoring system or monitoring device is inoperative.
7. The permittee shall maintain a file of the following (40 CFR 60.7(f)):
 - a) All measurements, including continuous monitoring system, monitoring device and performance testing measurements;
 - b) All continuous monitoring system performance evaluations;
 - c) All continuous monitoring system or monitoring device calibration checks;
 - d) Adjustments and maintenance performed on these systems or devices; and
8. All other information required by this part in a permanent format suitable for inspection.
9. The permittee shall record the output of the continuous monitoring systems for
 - a) Sulfur dioxide (40 CFR 60.47a(b));
 - b) Nitrogen oxides (40 CFR 60.47a(c));
 - c) Oxygen or carbon dioxide (40 CFR 60.47a(d));
 - d) Gross electrical output in megawatt-hour (40 CFR 60.47a(k));
 - e) Gross process steam output in joules per hour or Btu per hour (40 CFR 60.47a(k)); and
10. The permittee shall maintain records of the following (40 CFR 60.7(b))
 - a) The occurrence and duration of any startup, shutdown or malfunction in the operation of an affected facility;
 - b) Any malfunction of the air pollution control equipment; or
 - c) Any periods during which a continuous monitoring system or monitoring device is inoperative.
11. The permittee shall maintain a file of the following (40 CFR 60.7(f)):
 - a) All measurements, including continuous monitoring system, monitoring device and performance testing measurements;
 - b) All continuous monitoring system performance evaluations;
 - c) All continuous monitoring system or monitoring device calibration checks;
 - d) Adjustments and maintenance performed on these systems or devices; and
 - e) All other information required by this part in a permanent format suitable for inspection.
12. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
13. All records shall be maintained for five years.

Reporting:

Simple Cycle Mode:

1. Per City of Kansas City Health Department Air Quality Section Permit No. 883-A, NO_x emissions reporting required by 40 CFR 60 Subpart GG is fulfilled through the reporting requirements of Permit 883-A.
2. The permittee shall submit excess emissions and monitoring systems performance reports that include the information required by 40 CFR 60.7(c).
3. The permittee shall submit written reports required under 40 CFR 60 Subpart A quarterly for each three-month period. All quarterly reports shall be postmarked by the 30th day following the end of each three-month period (CP#883-A, 40 CFR 60.7(c)).
4. All reports shall be submitted in duplicate to the following agencies:

- a) Region VII, Director, Air and Toxics Division, U.S. Environmental Protection Agency, 11201 Renner Boulevard, Lenexa, KS 66219;
- b) Missouri Department of Natural Resources, Division of Environmental Quality, P.O. Box 176, Jefferson City, MO 65102;
- c) City of Kansas City Health Department Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108

Combined Cycle Mode:

5. Per City of Kansas City Health Department Air Quality Section Permit No. 883-A, NO_x emissions reporting required by 40 CFR 60 Subpart Da and 40 CFR 60 Subpart GG is fulfilled through the reporting requirements of Permit 883-A.
6. The permittee shall submit for nitrogen oxides for each 24-hour period the information required by 40 CFR 60.49a(b).
7. If the minimum quantity of emission data as required by 40 CFR 60.47a is not obtained for any 30 successive boiler operating days, the information required by 40 CFR 60.49a(c) obtained under the requirements of 40 CFR 60.46a(h) is reported for that 30-day period.
8. If the standards under 40 CFR 60.43a are exceeded during emergency conditions because of control system malfunction, the permittee shall submit a signed statement including the information required by 40 CFR 60.49a(d).
9. If fuel pretreatment credit toward the sulfur dioxide emission standard under 40 CFR 60.43a is claimed, the permittee shall submit a signed statement including the information required by 40 CFR 60.49a(e).
10. For any periods for which nitrogen oxides emissions data are not available, the permittee shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability (40 CFR 60.49a(f)).
11. The permittee shall submit a signed statement indicating whether (40 CFR 60.49a(g):
 - a) The required continuous monitoring system calibration, span and drift checks or other periodic audits have or have not been performed as specified;
 - b) The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance;
 - c) The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors were unavoidable;
 - d) Compliance with the standards has or has not been achieved during the reporting period.
12. The permittee shall submit excess emissions and monitoring systems performance reports that include the information required by 40 CFR 60.7(c).
13. The permittee shall submit written reports required under 40 CFR 60.49a and 40 CFR 60 Subpart A quarterly for each three-month period. All quarterly reports shall be postmarked by the 30th day following the end of each three-month period (40 CFR 60.49a(i)).
14. The permittee may submit electronic quarterly reports for SO₂ and/or NO_x and/or opacity in lieu of submitting the written reports required under 40 CFR 60.49a(b) and (h) (40 CFR 60.49a(j)).
 - a) The format of each quarterly report shall be coordinated with the permitting authority.
 - b) The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the permittee indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period.

- c) Before submitting reports in the electronic format, the permittee shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.
15. All reports shall be submitted in duplicate to the following agencies:
- a) Region VII, Director, Air and Toxics Division, U.S. Environmental Protection Agency, 11201 Renner Boulevard, Lenexa, KS 66219;
 - b) Missouri Department of Natural Resources, Division of Environmental Quality, P.O. Box 176, Jefferson City, MO 65102;
 - c) City of Kansas City Health Department Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108

Permit Condition EU0020-003

10 CSR 10-6.362 Clean Air Interstate Rule Annual NOx Trading Program
10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NOx Trading Program
10 CSR 10-6.366 Clean Air Interstate Rule SOx Trading Program

Emission Limitation:

The permittee shall obtain a CAIR Source Permit for the combustion turbine generator EU0020.

A CAIR Permit (Missouri Department of Natural Resources project 2007-07-004, ORIS Code 2079) is being issued to the permittee in conjunction with this Title V permit. (See Attachment A)

Monitoring/Recordkeeping:

The permittee shall retain the most current CAIR permit issued to this installation on-site and shall make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Annual Compliance Certification.

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

Permit Condition EU0020-004

10 CSR 10-6.270
Acid Rain Source Permits

Emission Limitation:

The permittee shall obtain an Acid Rain Source Permit for Emission Unit EU0020 pursuant to Title IV of the Clean Air Act. Kansas City Power and Light - Hawthorn submitted a Phase II permit application on June 18, 2009, under 10 CSR 10-6.270, "Acid Rain Source Permits Required." The Phase II permit (Missouri Department of Natural Resources project #2009-06-063, ORIS Code 2079) is being issued with this permit and is effective from January 1, 2010, through December 31, 2014.

Monitoring/Recordkeeping:

The permittee shall retain the most current acid rain permit issued to this facility on-site (See Attachment B) and shall make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Annual Compliance Certification

EU0030 through EU0040			
Unit 7 Simple Cycle Combustion Turbine			
Unit 8 Simple Cycle Combustion Turbine			
Emission Unit	Description	Manufacturer/Model #	2002 EIQ Reference #
EU0030	Unit 7. Natural gas 100 MW simple cycle combustion turbine; MDHR = 859.8 MMBtu/hr; Installed 2000.	General Electric 7EA	EP701
EU0040	Unit 8. Natural gas 100 MW simple cycle combustion turbine; MDHR = 859.8 MMBtu/hr; Installed 2000.	General Electric 7EA	EP801

<p>Permit Condition (EU0030 through EU0040)-001 10 CSR 10-6.060 Construction Permits Required City of Kansas City Health Department Air Quality Section Permit No. 883-A</p>

Emission Limitations:

1. The permittee shall not emit more than nine ppmv of NO_x corrected to 15 percent oxygen on a dry basis from each of emission units EU0030 and EU0040.
2. The permittee shall not emit more than 25 ppmv of CO corrected to 15 percent oxygen on a dry basis while above 70 percent load and 50 ppmv CO corrected to 15 percent oxygen on a dry basis while at 70 percent load and below from each of emission units EU0030 and EU0040.
3. The permittee shall not emit more than 10.0 lb/hr of PM₁₀ from each of emission units EU0030 and EU0040.
4. The permittee shall not emit more than 2.0 lb/hr VOC corrected to 15 percent oxygen on a dry basis from each of emission units EU0030 and EU0040.

Monitoring:

1. Compliance with the NO_x emission limitation stated above shall be demonstrated with continuous emissions monitors (CEMs) based on rolling 30-day averages and calculated separately for each emission unit.
2. The NO_x CEMs shall be installed, operated and maintained in accordance with 40 CFR 72, Acid Rain, and 40 CFR 75, Continuous Emission Monitors.
3. Compliance with CO, PM₁₀ and VOC emission limitations were demonstrated through completed stack testing. No additional monitoring requirements are required to demonstrate compliance with these emission limitations.

Recordkeeping/Reporting:

1. The permittee shall submit to the Air Quality Program not later than 30 days after the end of each calendar quarter a quarterly report quantifying the pollution emission rates for NO_x reported in ppmv corrected to 15 percent oxygen on a dry basis and the fuel type and quantity.
 - a) Parameters shall be reported under every operating condition that the turbines are operated.

- b) The monthly and daily average concentration for NO_x along with the calculated monthly and daily limit for NO_x shall be derived from this report.
- c) These reports shall be deemed sufficient to meet the requirements for NO_x emission reporting found in 40 CFR 60 Subpart GG.
2. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources personnel upon request.
3. All records shall be maintained for five years.

Permit Condition (EU0030 through EU0040)-002

10 CSR 10-6.070

New Source Performance Regulations

40 CFR 60 Subpart GG

Standards of Performance for Stationary Gas Turbines

Emission Limitations:

1. On or after the date on which the performance test is required to be conducted by §60.8 is completed, the permittee shall comply with one or the other of the following conditions (40 CFR 60.333):
 - a) The permittee shall not cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent O₂ and on a dry basis; or
 - b) The permittee shall not burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.

Monitoring/Testing:

1. Compliance with the NO_x emission limitation stated above shall be demonstrated with continuous emissions monitors (CEMs) based on rolling 30-day averages and calculated separately for each emission unit.
2. The NO_x CEMs shall be installed, operated and maintained in accordance with 40 CFR 72, Acid Rain, and 40 CFR 75, Continuous Emission Monitors.

Recordkeeping:

1. The permittee shall maintain records of the following (40 CFR 60.7(b)):
 - a) The occurrence and duration of any startup, shutdown or malfunction in the operation of an affected facility;
 - b) Any malfunction of the air pollution control equipment; or
 - c) Any periods during which a continuous monitoring system or monitoring device is inoperative.
2. The permittee shall maintain a file of the following (40 CFR 60.7(f)):
 - a) All measurements, including continuous monitoring system, monitoring device and performance testing measurements;
 - b) All continuous monitoring system performance evaluations;
 - c) All continuous monitoring system or monitoring device calibration checks;
 - d) Adjustments and maintenance performed on these systems or devices; and
 - e) All other information required by this part in a permanent format suitable for inspection.
3. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
4. All records shall be maintained for five years.

Reporting:

1. Per City of Kansas City Health Department Air Quality Section Permit No. 883-A, NO_x emissions reporting required by 40 CFR 60 Subpart GG is fulfilled through the reporting requirements of Permit 883-A.
2. The permittee shall submit excess emissions and monitoring systems performance reports that include the information required by 40 CFR 60.7(c).
3. The permittee shall submit written reports required under 40 CFR 60 Subpart A quarterly for each three-month period. All quarterly reports shall be postmarked by the 30th day following the end of each three-month period (40 CFR 60.7(c)).
4. All reports shall be submitted in duplicate to the following agencies:
 - a) Region VII, Director, Air and Toxics Division, U.S. Environmental Protection Agency, 11201 Renner Boulevard, Lenexa, KS 66219;
 - b) Missouri Department of Natural Resources, Division of Environmental Quality, P.O. Box 176, Jefferson City, MO 65102;
 - c) City of Kansas City Health Department Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108

Permit Condition (EU0030 and EU0040)-003

10 CSR 10-6.362 Clean Air Interstate Rule Annual NO_x Trading Program
10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NO_x Trading Program
10 CSR 10-6.366 Clean Air Interstate Rule SO_x Trading Program

Emission Limitation:

The permittee shall obtain a CAIR Source Permit for the combustion turbine generators EU0030 and EU0040.

A CAIR Permit (Missouri Department of Natural Resources project 2007-07-004, ORIS Code 2079) is being issued to the permittee in conjunction with this Title V permit. (See Attachment A)

Monitoring/Recordkeeping:

The permittee shall retain the most current CAIR permit issued to this installation on-site and shall make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Annual Compliance Certification.

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

Permit Condition (EU0030 and EU0040)-004

10 CSR 10-6.270
Acid Rain Source Permits

Emission Limitation:

The permittee shall obtain an Acid Rain Source Permit for Emission Units EU0030 and EU0040 pursuant to Title IV of the Clean Air Act. Kansas City Power and Light - Hawthorn submitted a Phase II

permit application on June 18, 2009, under 10 CSR 10-6.270, "Acid Rain Source Permits Required." The Phase II permit (MDNR project #2009-06-063, ORIS Code 2079) is being issued with this permit and is effective from January 1, 2010, through December 31, 2014.

Monitoring/Recordkeeping:

The permittee shall retain the most current acid rain permit issued to this facility on-site (See Attachment B) and shall make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Annual Compliance Certification

EU0050 through EU0060 Auxiliary Boiler #1 Auxiliary Boiler #2		
Emission Unit	Description	2002 EIQ Reference #
EU0050	Boiler #1. Natural gas auxiliary boiler; MDHR = 45.7 MMBtu/hr; Installed 2002.	EP34
EU0060	Boiler #2. Natural gas auxiliary boiler; MDHR = 45.7 MMBtu/hr; Installed 2002.	EP35

Permit Condition (EU0050 through EU0060)-001
 10 CSR 10-6.060
Construction Permits Required
 City of Kansas City Health Department Air Quality Section Permit No. 994

Equipment and Operation Parameters:

These emission units shall be limited to burning pipeline grade natural gas.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition (EU0050 through EU0060)-002
 10 CSR 10-6.070
New Source Performance Regulations
 40 CFR Part 60 Subpart Dc
Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

Monitoring/Recordkeeping/Reporting:

The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. [\[§60.48c\(g\)\]](#)

PERMIT CONDITION (EU0050 through EU0060)-003

10 CSR 10-6.075

Maximum Achievable Control Technology Regulations

40 CFR 63 Subpart DDDDD

National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

On December 23, 2011, EPA published a reconsideration proposal for the Boiler MACT. On February 7, 2012 EPA issued a No Action Assurance Letter establishing that EPA will exercise enforcement discretion to not pursue enforcement action for violations of certain notification deadlines within the Boiler MACT. EPA intends to issue the final reconsideration of the Boiler MACT prior to the compliance date for existing sources.

Compliance Dates:

Existing boilers shall comply with this subpart by no later than January 31, 2016. [§63.7495(b)]

Emission Limitations:

1. The owner or operator must meet each emission limit and work practice standard in Tables 1 through 3, and 13 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler or process heater, except as provided under §63.7522. [§63.7500(a)(1)]
2. At all times the equipment, including associated air pollution control equipment and monitoring equipment must be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance records, and inspection of the source. [§63.7500(a)(3)]
3. The Permittee shall meet the applicable general requirements as specified in §63.7505.
4. The Permittee shall refer to Table 10 in 40 CFR Part 63, Subpart DDDDD to determine which parts of the General Provisions in §63.1 through 63.15 that apply. [§63.7565]

Initial Compliance/performance testing/fuel analysis requirements:

1. The permittee shall refer to §63.7530 of 40 CFR Part 63, Subpart DDDDD for the procedures for demonstrating initial compliance with the emission limitations, fuel specifications and work practice standards that apply to these emission units.
2. The permittee shall refer to §63.7510 of 40 CFR Part 63, Subpart DDDDD for the initial compliance requirements and compliance dates that apply to these emission units.
3. The permittee shall refer to §63.7515 of 40 CFR Part 63, Subpart DDDDD for the requirements to conduct subsequent performance tests, fuel analyses, or tune ups.
4. The permittee shall refer to §63.7520 of 40 CFR Part 63, Subpart DDDDD for applicable stack testing procedures.
5. The permittee shall refer to §63.7521 of 40 CFR Part 63, Subpart DDDDD for applicable procedures related to fuel analysis and fuel specifications.

Monitoring:

The permittee shall conduct appropriate monitoring in accordance with §63.7525 and demonstrate continuous compliance in accordance with §§63.7535, 63.7540 and 63.7541.

Notifications:

The permittee shall submit to the delegated authority all of the notifications in §63.7(b) and (c), §63.8(e), (f)(4) and (6), and §63.9(b) through (h) that apply by the dates specified. [§63.7545(a)]

Recordkeeping:

1. The permittee shall retain a copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any semi-annual compliance report that the permittee submitted, according to the requirements in §63.10(b)(2)(xiv). [§63.7555(a)(1)]
2. The permittee shall retain records of compliance demonstrations as required in §63.10(b)(2)(viii). [§63.7555(a)(2)]
3. The permittee must keep the records required in Table 8 of 40 CFR Part 63, Subpart DDDDD. [§63.7555(c)]
4. For each boiler or process heater subject to an emission limit in Table 1, 2 or 12 of 40 CFR Part 63, Subpart DDDDD, the permittee must also keep the applicable records in paragraphs (d)(1) through (11) of §63.7555 of 40 CFR Part 63, Subpart DDDDD. [§63.7555(d)]
5. Records shall be retained in a form suitable and readily available for expeditious review, according to §63.10(b)(1). [§63.7560(a)]
6. As specified in §63.10(b)(1), the permittee shall retain each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [§63.7560(b)]
7. The permittee shall retain each record on site, or accessible from onsite (for example, through a computer network), for at least two years after the date of each occurrence, measurement, corrective action, report, or record, according to §63.10(b)(1). The permittee may retain the records off site for the remaining three years. [§63.7560(c)]
8. These records shall be made available for inspection to the Department of Natural Resources' personnel upon request.

Reporting:

1. The permittee shall submit reports as required in §63.7550.
2. The permittee shall submit each report in Table 9 to this 40 CFR Part 63 Subpart DDDDD that applies. [§63.7550(a)]

EU0070 through EU0080 Emergency Generator Fire Pump Engine			
Emission Unit	Description	Manufacturer/Model #	2002 EIQ Reference #
EU0070	Diesel emergency generator; MDHR = 2.35 MMBtu/hr; Installed 2005.	Cummins QSM11-G2	EP27
EU0080	Diesel fire pump engine; MDHR = 2.5 MMBtu/hr; Installed 1986.		EP40

Permit Condition (EU0070 through EU0080)-001
 10 CSR 10-6.060
Construction Permits Required
 City of Kansas City Health Department Air Quality Section Permit No. 771

Equipment and Operation Parameters

All equipment shall be maintained and operated in accordance with the manufacturer's recommendations.

Monitoring/Recordkeeping

1. The emissions shall be recorded on the Emission Inventory Questionnaire on an annual basis.
2. The permittee shall keep maintenance and repair records of the equipment.
3. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
4. All records shall be maintained for five years.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition (EU0070 through EU0080)-002
 10 CSR 10-6.260¹
Restriction of Emission of Sulfur Compounds

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.
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\(4\)](#) & [10 CSR 10-6.010 Ambient Air Quality Standards](#)]

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.03 parts per million (ppm) (80 micrograms per cubic meter (µg/m ³))	Annual arithmetic mean
	0.14 ppm (365 µg/m ³)	24-hour average not to be exceeded more than once per year
	0.5 ppm (1300 µg/m ³)	3-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 2 times per year
	0.03 ppm (42 µg/m ³)	½-hour average not to be exceeded over 2 times in any 5 consecutive days
Sulfuric Acid (H ₂ SO ₄)	10 µg/m ³	24-hour average not to be exceeded more than once in any 90 consecutive days
	30 µg/m ³	1-hour average not to be exceeded more than once in any 2 consecutive days

Equipment and Operation Parameters:

The emission unit shall be limited to burning diesel fuel.

¹ 10 CSR 10-6.260(4) is state-only.

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 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 to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition (EU0070 through EU0080)-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

Applicable to owners or operators of an emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed prior to June 12, 2006. This engine is subject to the requirements in 40 CFR 63.6640(f). No other requirements apply.

Operational Limitations:

1. You must operate the engine according to the conditions described in the following paragraphs:
[§63.6640(f)(2)]
 - a) There is no time limit on the use of emergency stationary RICE in emergency situations.
 - b) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.
 - c) You may operate your emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
2. If you do not operate the engine according to these requirements, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

EU0090 Unleaded Gasoline Tank		
Emission Unit	Description	2002 EIQ Reference #
EU0090	3000 gallon unleaded gasoline tank for vehicle fueling; Installed 1994.	EP202

<p align="center">Permit Condition EU0090-001 10 CSR 10-2.260 Control of Petroleum Liquid Storage, Loading and Transfer</p>

Equipment and Operation Parameters:

1. The permittee shall not cause or permit the transfer of gasoline from any delivery vessel into any stationary storage tank with a capacity greater than 2000 gallons unless:
 - a) the storage tank is equipped with a submerged fill pipe or a system that allows a bottom fill condition;
 - b) all storage tank caps and fittings are vapor-tight when gasoline transfer is not taking place; and
 - c) each storage tank is vented via a conduit that is
 - i) at least two inches inside diameter
 - ii) at least one foot in height above grade; and
 - iii) equipped with a pressure/vacuum valve that is CARB certified and MO/PETP approved at least three inches water column pressure/eight inches water column vacuum.

Monitoring:

All pressure/vacuum valves shall be bench tested prior to installation and once every two years thereafter to demonstrate component vapor tightness.

Recordkeeping:

1. The permittee shall keep records documenting the number of delivery vessels unloaded and their owners.
2. The permittee shall retain on-site copies of the loading ticket, manifest or delivery receipt for each grade of product received.
3. The permittee shall retain records of all pressure/vacuum valve bench tests.
4. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request within five days of a request.
5. All records shall be maintained for five (5) years.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition EU0090-002
10 CSR 10-2.330
Control of Gasoline Reid Vapor Pressure

Equipment and Operation Parameters:

The permittee shall not sell, dispense supply, offer for sale, offer for supply, transport or exchange in trade for use gasoline intended for final use with a Reid Vapor Pressure (RVP) of greater than 7.0 psi from June 1 through September 15 of any calendar year.

Monitoring/Recordkeeping:

1. Each bill of lading, invoice, loading ticket, delivery ticket and other document that accompanies a shipment of gasoline shall contain a legible and conspicuous statement that the RVP of the gasoline does not exceed 7.0 psi.
2. The permittee shall keep records of each bill of lading, invoice, loading ticket, delivery ticket and other document that accompanies a shipment of gasoline received from June 1 through September 15 of any calendar year.
3. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
4. All records shall be kept for a period of five years.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

EU0110 Parts Washer		
Emission Unit	Description	2002 EIQ Reference #
EU0110	Parts Washer #1. Cold cleaning parts washer. Installed after 1968.	EP37

Permit Condition EU0110-001
10 CSR 10-2.210
Control of Emissions from Solvent Metal Cleaning

Equipment and Operation Parameters:

1. After August 30, 2002, no owner or operator shall allow the operation of any cold cleaner using a cold cleaning solvent with a vapor pressure greater than 2.0 mm Hg (0.038 psi) at 20°C (68°F).
2. After August 30, 2003, no owner or operator shall operate or allow the operation of any cold cleaner using a cold cleaning solvent with a vapor pressure greater than 1.0 mmHg (0.019 psi) at 20°C (68°F).
3. Each cold cleaner shall have:
 - a) A cover which will prevent the escape of solvent vapors from the solvent bath while in the closed position, or
 - b) An enclosed reservoir which will prevent the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner.

- c) The cover shall be such that it can be easily operated with one hand and without disturbing the solvent vapors in the tank when one or more of the following conditions exist. (For covers larger than 10 square feet, this shall be accomplished by mechanical assistance such as spring loading or counter weighting or by power systems.)
 - i) The solvent volatility is greater than 0.3 psi measured at 100°F, such as mineral spirits;
 - ii) The solvent is agitated; or
 - iii) The solvent is heated.
 - d) Each cold cleaner shall have a drainage facility which will be internal so that parts are enclosed under the cover while draining.
 - e) If an internal drainage facility cannot fit into the cleaning system and the solvent volatility is less than 0.6 psi measured at 100°F, then the cold cleaner shall have an external drainage facility which provides for the solvent to drain back into the solvent bath.
 - f) Solvent sprays (if used) shall be a solid fluid stream and operate at a pressure which does not cause any splashing above or beyond the freeboard.
 - g) A permanent conspicuous label summarizing the operating procedures shall be affixed to the equipment.
 - h) Any cold cleaner which uses a solvent that has a solvent volatility greater than 0.6 psi measured at 100°F or heated above 120°F must use one of the following control devices:
 - i) A freeboard ratio of at least 0.75;
 - ii) Water cover; or
 - iii) Other control systems with a mass balance demonstrated overall VOC emissions reduction greater than or equal to sixty-five percent (65%).
4. Each cold cleaner shall be operated as follows:
- a) Cold cleaner covers shall be closed whenever parts are not being handled in the cleaners or the solvent must drain into an enclosed reservoir.
 - b) Cleaned parts shall be drained in the freeboard area for at least 15 seconds or until dripping ceases, whichever is longer.
 - c) Whenever a cold cleaner fails to perform within the operating parameters established for it by this regulation, the unit shall be shut down and shall remain shut down until trained service personnel are able to restore operation within the established parameters.
 - d) Solvent leaks shall be repaired or the degreaser shall be shut down until the leaks are repaired.
 - e) Any waste material removed from a cold cleaner shall be disposed of by one of the following methods and in accordance with the Missouri Hazardous Waste Management Commission rules codified at 10 CSR 10-25, as applicable:
 - i) Reduction of the waste material to less than twenty percent (20%) VOC solvent by distillation and proper disposal of the still bottom waste, or
 - ii) Stored in closed containers for transfer to a contract reclamation service or a disposal facility approved by the director.
 - f) Waste solvent shall be stored in covered containers only.
5. Operators must be trained as follows:
- a) Only persons trained in at least the operational and equipment requirements specified in this regulation for their particular solvent metal cleaning process shall be permitted to operate the equipment,
 - b) The supervisor of any person who operates a solvent metal cleaning process shall receive equal or greater operational training than the operator,
 - c) Refresher training shall be given to all solvent metal cleaning equipment operators at least once each 12 month period.

Monitoring/Recordkeeping:

1. The owner or operator of a solvent metal cleaning or degreasing operation shall keep monthly inventory records of solvent types and amounts purchased and solvent consumption.
2. The permittee shall keep records of all types and amounts of solvent containing waste material transferred to either a contract reclamation service or to a disposal facility and all amounts distilled on the premises.
3. The permittee shall keep maintenance and repair logs.
4. A record shall be kept of solvent metal cleaning training for each employee.
5. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
6. All records shall be maintained for five years.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

EU0130 Coal Handling		
Emission Unit	Description	2002 EIQ Reference #
EU0130	Coal handling includes the following activities: 1. Unloading of coal from rotary car dumper to belt 2. Transfer from belt to stockout 3. Transfer from pile to reclaim conveyor 4. Transfer from reclaim conveyor to conveyor 32 5. Transfer from conveyor 32 to crusher 6. Crusher 7. Transfer from crusher to conveyor 44A 8. Transfer from conveyor 44A to Unit 5A	NA

Permit Condition EU0130-001
 10 CSR 10-6.060
Construction Permits Required
 City of Kansas City Health Department Air Quality Section Permit No. 888 (amended 02/15/01)

Emission Limitations:

1. All coal handling equipment constructed under authority of City of Kansas City Health Department Air Quality Section Permit No. 888 (amended February 15, 2001) shall be enclosed and all enclosed spaces vented to a baghouse.
2. Visible emissions from the coal handling equipment baghouse vent shall not exceed ten percent opacity.

Equipment and Operation Parameters:

1. The coal handling baghouse shall be installed, operated and maintained in accordance with the manufacturer's specifications.
2. The baghouse shall be equipped with a gauge or meter which indicates the pressure drop across the baghouse compartments.
3. This gauge or meter shall be located such that it may be easily observed by the Kansas City Air Quality Program and Missouri Department of Natural Resources employees.
4. The operating pressure drop on the coal handling baghouse shall be maintained between one to six inches of water whenever the emission units are in operation. A pressure drop reading of less than one inch may be observed for a period following the installation of a new bag.
5. Replacement bags for the baghouse shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance and abrasion resistance).

Recordkeeping/Monitoring:

1. The permittee shall monitor and record the operating pressure drop across the coal handling baghouse compartments at least once every operation day. Attachment C or an equivalent recordkeeping form shall be used to record the pressure drop across the baghouse.
2. The permittee shall maintain an operating and maintenance log for the baghouses which shall include the following: Attachment D or an equivalent recordkeeping form shall be used to document all baghouse maintenance activities.
 - a) Incidents of malfunction with impact on emissions, duration of event, probable cause and corrective actions; and
 - b) Maintenance activities with inspection schedule, repair actions and replacements, etc.
3. The permittee shall maintain all additional records required to demonstrate compliance with all applicable regulations and special conditions of this permit.
4. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
5. All records shall be maintained for five years.

Reporting:

1. The permittee shall submit any additional reports required by any other applicable regulation.
2. The permittee shall report any event resulting in non-compliance of the conditions of this permit to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the event.

Permit Condition EU0130-002

10 CSR 10-6.060

Construction Permits Required

City of Kansas City Health Department Air Quality Section Permit No. 927

Emission Limitations:

The permittee shall not emit more than 14.9 tons of particulate matter less than ten microns (PM₁₀) from the coal receiving, conveying and stacking operations during any consecutive 12-month period.

Recordkeeping/Monitoring:

1. The permittee shall determine compliance with the above emission limitation within 10 days after the end of each calendar month by adding the coal received for that month to the coal received for the previous consecutive 11 months and calculating PM₁₀ emissions using Attachment E, or an equivalent.
2. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
3. All records shall be maintained for five years.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and 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 any month in which the 12-month cumulative total indicates non-compliance with the 14.9 ton of PM₁₀ limit.

<p style="text-align: center;">Permit Condition EU0130-003 10 CSR 10-6.070 New Source Performance Regulations 40 CFR 60 Subpart Y Standards of Performance for Coal Preparation Plants</p>

Emission Limitations:

On or after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the permittee subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any coal processing and conveying, coal storage system (excluding open storage piles) or coal transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater.

Monitoring:

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
 - a) Weekly observations shall be conducted for a minimum of eight consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-
 - b) Observations must be made once every two weeks for a period of eight weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then
 - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Recordkeeping:

1. The permittee shall maintain records of all observation results (see Attachment F), noting:

- a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
2. The permittee shall maintain records of any equipment malfunctions (see Attachment H).
 3. The permittee shall maintain records of any USEPA Method 9 opacity test performed (see Attachment G) in accordance with this permit condition.
 4. These records shall be made available for inspection to the Kansas City Air Quality Program and the Department of Natural Resources' personnel upon request.
 5. All records shall be kept for a period of five (5) years.

Reporting:

The permittee shall report to the Kansas City Air Quality Program, 2400 Troost Avenue, Suite 3000, Kansas City, MO 64108, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

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) Kansas City Power & Light - Hawthorn 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 Kansas City Power & Light - Hawthorn 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 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 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.E Title IV Allowances

This permit prohibits emissions which exceed any allowances the installation holds under Title IV of the Clean Air Act.

No permit revisions shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program if the increases do not require a permit revision under any other applicable requirement.

Limits cannot be placed on the number of allowances that may be held by an installation. The installation may not use these allowances, however, as a defense for noncompliance with any other applicable requirement.

Any allowances held by a Title IV installation shall be accounted for according to procedures established in rules promulgated under Title IV of the Clean Air Act.

Kansas City Power and Light - Hawthorn submitted a Phase II permit renewal on June 18, 2009, under 10 CSR 10-6.270, "Acid Rain Source Permits Required." The Phase II permit (Missouri Department of Natural Resources project #2009-06-063, ORIS Code 2079) is being issued with this operating permit renewal and is effective from January 1, 2010, through December 31, 2014.

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)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 responsible official is Dominic Scardino, Plant 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 A

TITLE V: CLEAN AIR INTERSTATE RULE (CAIR) PERMIT

In accordance with Title V of the Clean Air Act and Missouri State Rules 10 CSR 10-6.362, *Clean Air Interstate Rule Annual Nox Trading Program*, 10 CSR 10-6.364 *Clean Air Interstate Rule Seasonal NOx Trading Program*, and 10 CSR 10-6.366, *Clean Air Interstate Rule Sox Trading Program*, the State of Missouri issues this CAIR Permit.

Installation Name: KCP&L-Hawthorn Generating Station (Oris Code: 2079)
Project Number: 2007-07-004, **Permit Number:** OP2013-024
Unit IDs: Unit 5A, 6, 7, 8 and 9
Effective Dates: April 18, 2013 through April 17, 2017

The permit application submitted for this source, as corrected by the State of Missouri Department of Natural Resources' Air Pollution Control Program, Operating Permit Section, is attached. The owners and operators of this source must comply with the standard requirements and special provisions set forth in this application.

This CAIR Permit applies only to units 5A, 6, 7, 8 and 9 at KCP&L – Hawthorn Generating Station (Facility ID 095-0022).

This CAIR permit is effective for the five-year period shown above. The designated representative must submit an application for renewal of this permit no later than October 17, 2012, and in conjunction with the operating permit renewal application.

Date

Director or Designee,
Department of Natural Resources

CAIR Permit Application

(for sources covered under a CAIR SIP)

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For more information, refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321, and 96.322

This submission is: New Revised

STEP 1
 Identify the source by plant name, State, and ORIS or facility code

Hawthorn Generating Station	MO	2079
Plant Name	State	ORIS/Facility Code

STEP 2
 Enter the unit ID# for each CAIR unit and indicate to which CAIR programs each unit is subject (by placing an "X" in the column)

Unit ID#	NO _x Annual	SO ₂	NO _x Ozone Season
5a	X	X	X
6	X	X	X
7	X	X	X
8	X	X	X
9	X	X	X

STEP 3
 Read the standard requirements and the certification, enter the name of the CAIR designated representative, and sign and date

Standard Requirements

(a) Permit Requirements.

(1) The CAIR designated representative of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) required to have a title V operating permit at the source shall:

(i) Submit to the permitting authority a complete CAIR permit application under §96.122, §96.222, and §96.322 (as applicable) in accordance with the deadlines specified in §96.121, §96.221, and §96.321 (as applicable); and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) required to have a title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in subpart II, III, and IIII (as applicable) of 40 CFR part 96, the owners and operators of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) that is not otherwise required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) that is not otherwise required to have a title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for such CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and such CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable).

Hawthorn Generating Station
Plant Name (from Step 1)

CAIR Permit Application
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STEP 3,
continued

(b) Monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(2) The emissions measurements recorded and reported in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 shall be used to determine compliance by each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) with the CAIR NO_x emissions limitation, CAIR SO₂ emissions limitation, and CAIR NO_x Ozone Season emissions limitation (as applicable) under paragraph (c) of §§ 96.106, § 96.206, and § 96.306 (as applicable).

(c) Nitrogen oxides emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under § 96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with subpart HH of 40 CFR part 96.

(2) A CAIR NO_x unit shall be subject to the requirements under paragraph (c)(1) of § 96.106 for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under § 96.170(b)(1), (2), or (3) and for each control period thereafter.

(3) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of § 96.106, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.

(4) CAIR NO_x allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with subparts FF, GG, and II of 40 CFR part 96.

(5) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under § 96.165 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_x allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EE, FF, GG, or II of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR NO_x unit.

Sulfur dioxide emission requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO₂ allowances available for compliance deductions for the control period under § 96.254(a) and (b) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

(2) A CAIR SO₂ unit shall be subject to the requirements under paragraph (c)(1) of § 96.206 for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under § 96.270(b)(1), (2), or (3) and for each control period thereafter.

(3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of § 96.206, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.

(4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.

(5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under § 96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR SO₂ allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart FFF, GGG, or III of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO₂ unit.

Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under § 96.354(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of § 96.306 for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under § 96.370(b)(1), (2), (3) or (7) and for each control period thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of § 96.306, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with subparts FFFF, GGGG, and IIII of 40 CFR part 96.

(5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under § 96.305 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_x allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EEEE, FFFF, GGGG, or IIII of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

Hawthorn Generating Station
Plant Name (from Step 1)

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STEP 3,
continued

(d) Excess emissions requirements.

If a CAIR NO_x source emits nitrogen oxides during any control period in excess of the CAIR NO_x emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under §96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under §96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR NO_x Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NO_x Ozone Season emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under §96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.

(i) The certificate of representation under §§6.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under §§6.113, §96.213, and §96.313 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96, provided that to the extent that subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) including those under subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(f) Liability.

(1) Each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(2) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) shall also apply to the owners and operators of each source and of the CAIR NO_x units, CAIR SO₂ units, and CAIR NO_x Ozone Season units (as applicable) at the source.

(3) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

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Plant Name (from Step 1)

CAIR Permit Application
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STEP 3,
continued

(d) Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under § 96.105, §96.205, and §96.305 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Certification

I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Kevin Noblet	
Name	
	11-26-12
Signature	Date

ATTACHMENT B

**TITLE IV: ACID RAIN
PERMIT**

In accordance with Titles IV and V of the Clean Air Act and Missouri State Rule 10 CSR 10-6.270, *Acid Rain Source Permits Required*, the State of Missouri issues this Acid Rain Permit.

Installation Name: Kansas City Power & Light (Iatan), **ORIS Code:** 2079
Project Number: 2009-06-063
Permit Number: OP2013-024
Unit IDs: 5A, 6, 7, 8 and 9
Effective Dates: April 18, 2013 through April 17, 2018

The permit application submitted for this source, as corrected by the State of Missouri Department of Natural Resources (MDNR), Air Pollution Control Program (APCP), Operating Permit Section, is attached. The owners and operators of this source must comply with the standard requirements and special provisions set forth in this application.

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by the United States Environmental Protection Agency. Pursuant to 40 CFR 72.84, *Automatic permit amendment*, this does not necessitate a revision to any unit SO₂ allowance allocations identified in this permit.

This acid rain permit is effective for the five-year period shown above, per 40 CFR 72.69, *Issuance and effective date of acid rain permits*. The designated representative must submit an application for renewal of this permit no later than October 17, 2018, per 40 CFR 72.30, *Requirement to apply*, and in conjunction with the operating permit renewal application.

Date

Director or Designee,
Department of Natural Resources

Facility (Source) Name (from STEP 1) HAWTHORN

Acid Rain - Page 2

Permit Requirements

STEP 3

Read the standard requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Facility (Source) Name (from STEP 1) HAWTHORN

Acid Rain - Page 3

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:

(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and

(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

Facility (Source) Name (from STEP 1) HAWTHORN

Acid Rain - Pa

Recordkeeping and Reporting Requirements, Cont'd.

STEP 3, Cont'd.

- (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

Facility (Source) Name (from STEP 1) **HAWTHORN**

Acid Rain - Page 5

Effect on Other Authorities, Cont'd.

STEP 3, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; *provided*, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

STEP 4

Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Scott Heidtbrink, D.R.	
Signature <i>Scott Heidtbrink</i>	Date <i>6/16/09</i>

Attachment G

Method 9 Opacity Emissions Observations								
Company					Observer			
Location					Observer Certification Date			
Date					Emission Unit			
Time					Control Device			
Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
SUMMARY OF AVERAGE OPACITY								
Set Number	Time				Opacity			
	Start	End	Sum	Average				

Readings ranged from _____ to _____ % opacity.

Was the emission unit in compliance at the time of evaluation? _____
 YES NO Signature of Observer

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 July 24, 2009;
- 2) 2011 Emissions Inventory Questionnaire, received April 30, 2012; and
- 3) 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 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 10-6.405, *Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating*. Several units at the installation are not subject to the rule for the following reasons:

- 1) Unit 5A and the Heat Recovery Steam generator with Duct Burners portion of Unit 6/9 are indirect heating units but the particulate matter limit that would be imposed by 10 CSR 10-6.450 is superceded by 40 CFR 60 Subpart Da.
- 2) The combustion turbine portion of Unit 6/9, Unit 7, Unit 8, the emergency diesel generator and the emergency diesel fire pump engine are all internal combustion units that are exempt per 10 CSR 10-6.405.
- 3) Auxiliary Boiler #1 and #2 are indirect heating units but the particulate matter limit that would be imposed by 10 CSR 10-6.405 is superceded by 40 CFR 60 Subpart Dc.

Construction Permit Revisions

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

- 1) City of Kansas City Health Department, Air Quality Section Permit No. 740: Annual EIQ reporting was deemed an appropriate method of demonstrating compliance with this construction permit when the construction permit was issued. However, for Title V purposes, U.S. EPA, Region VII requires monthly and 12-month rolling total recordkeeping to determine compliance with annual emission limits. As such the emission limit was changed from a calendar year basis to a 12-month rolling total basis. Appropriate recordkeeping and reporting requirements were also added to this permit condition as a method of compliance demonstration.

- 2) City of Kansas City Health Department, Air Quality Section Permit No. 755: This construction permit requires that the tank store diesel fuel only and that the permittee maintain the tank so as to minimize vapor emissions, but included no method to demonstrate compliance with these requirements. As such, monitoring/recordkeeping requirements were added to this permit condition requiring the permittee to track volatile organic liquids added to the tank and inspection and maintenance activities performed on the tank. These added requirements were included for times that the tank is storing a volatile organic liquid only.
- 3) City of Kansas City Health Department, Air Quality Section Permit No. 771: This construction permit requires that the equipment be maintained and operated in accordance with the manufacturer's recommendations but included no method to demonstrate compliance with this requirement. As such, a recordkeeping requirement was added to this permit condition requiring the permittee to track maintenance and repair activities for each piece of equipment covered by the construction permit. U.S. EPA Region VII Title V requirements require that these records be made available to agency personnel and be kept for five (5) years. In addition, the construction permit requires that the installation contact the agency within 72 hours of any exceedance of the permit. Standard wording for the operating permit only requires contact within 15 days of any exceedance. As such the construction permit wording was replaced by the operating permit standard wording.
- 4) City of Kansas City Health Department, Air Quality Section Permit No. 883-A: The construction permit is not clear as to whether the emission limits apply to Unit 7 and Unit 8 separately or combined. For purposes of the operating permit, the emission limitations of the construction permit were interpreted to be for each combustion turbine separately. U.S. EPA Region VII Title V requirements require that these records be made available to agency personnel and be kept for five years. This construction permit contains a written requirements section as well as a summary table of emission limitations. In cases where the two do not agree, the written requirements were determined to be the true limitations for the equipment covered under this construction permit.
- 5) City of Kansas City Health Department, Air Quality Section Permit No. 888 (amended 02/15/01): This permit references a rescinded opacity rule when referring to continuous emission monitor operation. Since the permittee is also directed to install the continuous monitors in accordance with 40 CFR 60 Subpart Da which has more stringent opacity requirements, the reference to 10 CSR 10-2.060 continuous opacity monitors was not included as a requirement of this permit. The 36-month "evaluation" period began on June 2001.

New Source Performance Standards (NSPS) Applicability

- 1) 10 CSR 10-6.070, *New Source Performance Regulations*
40 CFR Part 60, Subpart D – *Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971.*
The steam generating units at the installation include Unit 5A, the heat recovery steam generating unit with duct burners portion of Unit 6/9 and the two auxiliary boilers. Unit 5A and the heat recovery steam generating unit with duct burners portion of Unit 6/9 are subject to Subpart Da, and as such, are exempt from Subpart D per 40 CFR 60.40(e). The two auxiliary boilers have heat inputs below the applicability threshold of 250 MMBtu/hr.
- 2) 10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart Da – *Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978.*

The steam generating units at the installation include Unit 5A, the heat recovery steam generating unit with duct burners portion of Unit 6/9 and the two auxiliary boilers. This regulation applies to Unit 5A and Unit 6/9 when operating in combined cycle mode (i.e., when turbine exhaust is being routed to the heat recovery steam generating unit with duct burners). It does not apply to the two auxiliary boilers since their heat inputs are each below the applicability threshold of 250 MMBtu/hr. The recordkeeping retention time was changed from two years to five years based on EPA Region VII Title V requirements.

For Unit 5A, Permit 888 limits NO_x emissions based on heat input. Subpart Da limits NO_x emissions based on energy output. As such, the NO_x limitations for both rules were included as permit conditions for this unit since the basis for the limitations differ. Permit 888 also limits SO₂ emissions from Unit 5A based on heat input but provides no reduction requirements. Subpart Da includes reduction requirement limitations based on the level of SO₂ emissions. The reduction requirements for emission levels less than 0.12 lb/MMBtu (Permit 888 limitation) were included in the operating permit for Unit 5A.

For Unit 6/9, 40 CFR 60.46a(k) provides alternative methods of compliance with the NO_x emission limitation for those units with duct burners. Since Permit 883-A requires the use of a CEM anyway, that was as the method of compliance for the Subpart Da NO_x limitation in the operating permit. Both NO_x and SO_x limitations from Permit 883-A and Subpart Da were included as applicable conditions in the operating permit since they are stated in different units.

3) 10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart Db – *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.*

The steam generating units at the installation include Unit 5A, the heat recovery steam generating unit with duct burners portion of Unit 6/9 and the two auxiliary boilers. Unit 5A and the heat recovery steam generating unit with duct burners portion of Unit 6/9 are subject to Subpart Da, and as such, are exempt from Subpart Db per 40 CFR 60.40b(e). The two auxiliary boilers have heat inputs below the applicability threshold of 100 MMBtu/hr.

4) 10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart Dc – *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.*

The steam generating units at the installation include Unit 5A, the heat recovery steam generating unit with duct burners portion of Unit 6/9 and the two auxiliary boilers. Unit 5A and the heat recovery steam generating unit with duct burners portion of Unit 6/9 have heat inputs greater than the maximum applicability threshold of 100 MMBtu/hr.

5) 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 Ka – *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984.*

Neither of these regulations apply to the 150,000-gallon storage tank, the 7000-gallon diesel tank, the 350-gallon diesel tank, the 120-gallon diesel tank or the 3000-gallon unleaded gasoline tank for the following reasons.

- a) The 7000-gallon diesel tank, the 350-gallon diesel tank, the 120-gallon diesel tank and the 3000-gallon gasoline tank are significantly smaller than applicability threshold of 40,000 gallons.
- b) All tanks were installed after the applicability dates of the subparts.
- c) Diesel is not considered a petroleum liquid for purposes of these subparts.

6) 10 CSR 10-6.070, *New Source Performance Regulations*

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 24, 1984.*

This regulation does not apply to the 7000-gallon diesel tank, the 350-gallon diesel tank, the 120-gallon diesel tank or the 3000-gallon unleaded gasoline tank since both tanks are significantly smaller than the 10,000-gallon applicability threshold. It does however apply to the 150,000-gallon tank (despite the fact that the tank has been converted to water storage) since the tank has a construction permit that specifically allows it to store diesel fuel.

7) 10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart Y – *Standards of Performance for Coal Preparation Plants*

The regulation provides no ongoing compliance demonstration methods after the initial Method 9 performance test. As such, Air Pollution Control Program standard opacity monitoring wording was used as the compliance method.

8) 10 CSR 10-6.070, *New Source Performance Regulations*

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

For Unit 6/9, Subpart GG was included as an applicable requirement when the unit is operating in simple cycle mode only. It is during that mode that emissions from the gas turbine are released to the atmosphere. In combined cycle mode, the exhaust from the turbine is routed to the heat recovery steam generator with duct burners which is covered under Subpart Da.

Since the NO_x limitation of 94 ppmvd calculated from Subpart GG for Units 6/9 (simple cycle), 7 and 8 is less stringent than the limitations in Construction Permit #883-A, they were not included in the operating permit. Subpart GG contains no continuous monitoring requirements for Units 6/9 (simple cycle), 7 or 8. However, Permit 883-A does require installation of a NO_x monitor. As such, the NO_x monitor requirements were included as conditions of Subpart GG for Units 6/9 in simple cycle mode, 7 and 8.

9) 10 CSR 10-6.070, *New Source Performance Regulations*

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

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

These subparts do not apply to Emission Units EU0070 Emergency Generator and EU0080 Fire Pump Engine because they were both constructed prior to June 12, 2006.

Maximum Achievable Control Technology (MACT) Applicability

- 1) 10 CSR 10-6.075, *Maximum Achievable Control Technology Regulations*
40 CFR Part 63, Subpart T – *National Emission Standards for Halogenated Solvent Cleaning*. This regulation does not apply to the parts washers at the installation because they do not use the solvent types covered by the subpart.
- 2) 10 CSR 10-6.075, *Maximum Achievable Control Technology Regulations*
40 CFR Part 63, Subpart DDDDD – *Industrial, Commercial and Institutional Boilers and Process Heaters*. Unit 5A Boiler is not subject because it is subject to 40 CFR Part 63, Subpart Da. This subpart does apply to EU0050 and EU0060 Auxiliary Boilers.
- 3) 10 CSR 10-6.075, *Maximum Achievable Control Technology Regulations*
40 CFR Part 63, Subpart YYYY, *National Emission Standard for Hazardous Air Pollutants for Stationary Combustion Turbines*. This subpart does not apply to the combustion turbines at this facility: emission units EU0020, EU0030 and EU0040, because they are existing sources.
- 4) 10 CSR 10-6.075, *Maximum Achievable Control Technology Regulations*
40 CFR Part 63, Subpart ZZZZ, *National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*. This subpart applies emission unit EU0070 Emergency Generator and EU0080 Fire Pump Engine.
- 5) 10 CSR 10-6.075, *Maximum Achievable Control Technology Regulations*
40 CFR Part 63, Subpart UUUUU, *National Emission Standard for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units*. This subpart applies emission unit EU0010 Unit 5A Boiler.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

In the permit application and according to APCP 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.

Unit 5A at KCP&L’s Hawthorn Generating Station is a coal-fired boiler that is subject to CAM. The unit is subject to state/local PM emissions and opacity limits. PM compliance is demonstrated using PM₁₀ emission measurements, including condensable particle matter. Unit 5A has a PM₁₀ limit of 0.018 lb/MMBtu, including both filterable and condensable PM₁₀. The unit is equipped with a pulse jet baghouse for filterable particulate control.

Greenhouse Gas Emissions

This installation is a major source for greenhouse gases. Major stationary sources are required by the Clean Air Act (CAA) to obtain Part 70 operating permits. While Part 70 permits generally do not establish new emissions limits, they consolidate applicable requirements, as defined in Missouri State Regulations 10 CSR 10-6.020(2)(A)23, into a comprehensive air permit. At the time of permit issuance, there were no applicable GHG requirements for this source.

Note that this source is subject to the Greenhouse Gas Reporting Rule. However, the preamble of the GHG Reporting Rule clarifies that Part 98 requirements do not have to be incorporated in Part 70 permits operating permits at this time. In addition, Missouri regulations do not require the installation to report CO₂ emissions in their Missouri Emissions Inventory Questionnaire; therefore, the installation’s CO₂ emissions were not included within this permit. An estimate of CO₂ emissions are included in the statement of basis. The applicant is required to report the data directly to EPA. The public may obtain CO₂ emissions data for this installation by visiting EPA’s Clean Air Markets website at: <http://camddataandmaps.epa.gov/gdm/index.cfm>.

Updated Potential to Emit for the Installation

Pollutant	Potential to Emit (tons/yr) ¹
CO	3718.04
CO ₂ e	8,996,160
HAP	>25
NO _x	2993.8
PM ₁₀	173.0
PM _{2.5}	133.85
SO _x	2703.4
VOC	186.0

¹Each emission unit was evaluated at 8,760 hours of uncontrolled annual operation unless otherwise noted. Coal, handling was limited to 14.9 tons per year due to construction permit limits contained in this operating permit.

²PM₁₀ and PM_{2.5} only include filterable emissions from point sources, they do not take into account fugitive sources such as haul roads or storage piles.

Other Regulatory Determinations

10 CSR 10-2.330, *Control of Gasoline Reid Vapor Pressure*, applies to the unleaded gasoline tank and contains separate requirements for ethyl alcohol blends of gasoline. However, since the operating permit application made no mention of using special gasoline, only the requirements for unleaded gasoline were included in the operating permit. In addition, the two-year record retention time required by the regulation was changed to a five-year record retention time per U.S. EPA Region VII Title V

requirements. Finally, per 10 CSR 10-2.330(8)(D), the requirements of Section (5) of the rule do not apply since the tank is being used to fuel individual motor vehicles at the installation.

10 CSR 10-6.060, *Construction Permits Required*/City of Kansas City Health Department Air Quality Section Permit No. 755, was not included in the revised operating permit application since the tank has been converted to water storage. However, since Permit No. 755 was never voided, it remains a valid construction permit applicable to the 150,000-gallon storage tank. By storing water in the tank, the permittee is not violating the construction permit since the intent of the permit was to initiate a new construction permit if a different volatile organic material was stored in the tank that could potentially increase emissions. Water is not considered a volatile organic material, and therefore, does not increase emissions from the tank.

10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*, does not apply to those units subject to a New Source Performance Standard under 10 CSR 10-6.070. However, it is applicable to the emergency diesel generator and the diesel fire pump engine and is therefore included as permit conditions for these units. These units subject to the rule are in compliance as summarized in the tables below.

Emission Unit	Emission Unit Description		SO ₂ Emission Factor (lb/MMBtu) ¹	SO ₂ Emissions (ppmv) ²	SO ₂ Limit (ppmv)
EU0070	Emergency Generator	Diesel Fuel Oil	0.29 AP42 Tbl 3.3-1 (10/96)	169	500
EU0080	Fire Pump Engine	Diesel Fuel Oil	0.29 AP42 Tbl 3.3-1 (10/96)	169	500

¹S = the sulfur content of the fuel
²General Equation: ppmv SO₂ = SO₂ Emission Factor ÷ F factor ÷ Conversion Factor

- The SO₂ emission factor is the emission factor presented in the following table. It assumes that all of the sulfur in the fuel is converted to SO₂ emissions.
- The F factor is the ratio of gas volume of products of combustion to the heat content of the fuel. For fuel oil the F factor is 10,320 wscf/MMBtu. For natural gas the F factor is 10,610 wscf/MMBtu. (40 CFR Part 60 Appendix A Method 19 Tbl 19-1).
- The conversion factor is 1.660E-7lb/scf per ppmv (40 CFR Part 60 Appendix A Method 19).

Sulfur emissions in the form of SO₃ converted from SO₂ are considered insignificant and it is highly unlikely that the limitations of 10 CSR 10-6.260(3)(B) will ever be exceeded.

10 CSR 10-6.400, *Restriction of Emission of Particulate Matter from Industrial Processes*, was not included as an applicable regulation for the boilers since indirect heating is specifically exempted by the rule. The turbines, generator and fire pump engine are also exempted from 10 CSR 10-6.400 because the rule specifically states that liquid and gaseous fuels are not to be considered in determining the “process weight” introduced into the emission unit. The rule also exempts grinding, crushing and conveying operations at power plants and was not included for coal, lime or fly ash handling.

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:

Jill Wade, P.E.
Environmental Engineer

Darrel Hensley
Kansas City Power & Light - Hawthorn
8700 Hawthorn Road
Kansas City, MO 64120

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Kansas City Power & Light - Hawthorn, 095-0022
Permit Number: MMYYYY-###

Dear Sir/Madam:

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 contact the Air Pollution Control Program (APCP) at (573) 751-4817, or you may write to the Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

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

MJS:nK

Enclosures

c: Tamara Freeman, US EPA Region VII
Kansas City Regional Office
PAMS File: 2009-07-061

MEMORANDUM

DATE: April 5, 2013

TO: Michael McMenus – KCP&L Hawthorn Generating Station

FROM: Jill Wade, Environmental Engineer

SUBJECT: Response to Public Comments

Comments were received from Stephen Courtney of KCP&L via email on Thursday March 14, 2013 and from Mark Smith of the US EPA on March 13, 2013. The comments are addressed in the order in which they appear within the letter(s).

Comment #1: Permit Condition EU0010-005 is incorporated into the draft Part 70 operating permit to capture the requirements associated with 40 CFR Part 63, subpart UUUUU. It appears as though MDNR is attempting to incorporate by reference (IBR) the applicable requirements associated with the referenced national emission standards for hazardous air pollutants from coal and oil-fired electric utility steam generating units.

One of the goals of the Title V (Part 70) operating permit program is that both the source and the permitting authority gain a better understanding of the specific requirements applicable to the source which in turn would lead to improved compliance. There is value to be gained by a source and the permit writer by studying the specific requirements of specific standards, culling out those requirements that apply to a source and translating them in a logical fashion as operating permit conditions. Through this exercise, the source, the permit writer and EPA gain a better understanding of the requirements in general, as well as how that standard specifically affects the source. Therefore, the use of IBR must balance “simplicity” with “precision”; the need to create unambiguous, comprehensive operating permits tailored to the specific source. It is EPA’s guidance to permitting authorities that all emission limits, monitoring, record keeping and reporting and compliance determination methods applicable to the specific emission unit must be clearly incorporated into the permit.

Therefore, EPA recommends that MDNR replace the table listing the 40 CFR Part 63 Subpart UUUUU applicable requirements listed by citation with clearly incorporated monitoring installation, collection, operating and maintenance requirements, initial and continuing compliance determinations and record keeping requirements in a manner equivalent to those presented to emission limits, work practice standards and operating limits. Notification and reporting and test methods and procedures can continue to be retained as IBR.

Response to Comment: The table was left in the permit condition however the applicable requirements were described in much more detail following the table as suggested.

Comment #2: Permit Condition (EU0050 through EU0060)-003 is incorporated into the draft Part 70 operating permit to capture the requirements associated with 40 CFR Part 63, Subpart DDDDD: National Emission Standards for Hazardous Air Pollutants for industrial, Commercial, and Institutional Boilers and Process Heaters. The draft permit condition includes a notification indicating that on December 23, 2011 EPA published a reconsideration proposal for this Boiler MACT and further issued a No Action Assurance Letter on February 7, 2012.

On January 31, 2013, EPA published in the Federal Register the final rule and notice of final action on reconsideration. There have, in all likelihood, been changes incorporated in this final rulemaking of January 31, 2013 that are not reflected in the requirements shown in Permit Condition (EU0050 through EU0060)-003.

Therefore EPA recommends that MDNR thoroughly review the Federal Register publication of January 31, 2013 (78 FR 7138 through 7213) and modify the compliance dates, emission limitations, initial compliance/performance testing/fuel analysis requirements, monitoring requirements, notification requirements, record keeping requirements and reporting requirements, as applicable.

Response to Comment: Permit Condition (EU0050 through EU0060)-003 has been corrected to include the updated requirements of 40 CFR Part 63 Subpart DDDDD.

Comment #3: The cover page for the Acid Rain Permit shows “Iatan” with the site number for Hawthorn.

Response to Comment: The cover page has been corrected to reference KCP&L – Hawthorn, rather than “Iatan.”

Comment #4: The CAIR permit in Attachment A is the previously issued permit. Please replace with the renewed CAIR permit application.

Response to Comment: This change was made to Attachment A of the operating permit as requested.

JW/kjc