

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Midwest Generation EME, LLC - Fisk Generating Station
Attn: Andrea Crapisi
440 South LaSalle Street, Suite 3500
Chicago, Illinois 60605

Application No.: 07050006

I.D. No.: 031600AMI

Applicant's Designation:

Date Received: May 3, 2007

Subject: Sorbent Injection System for Unit 19

Date Issued: July 19, 2007

Location: Fisk Generating Station, 1111 West Cermak Road, Chicago, 60608

Permit is hereby granted to the above-designated Permittee to CONSTRUCT equipment consisting of a sorbent injection system to control mercury emissions for the Unit 19 boiler, as described in the above referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This Permit authorizes construction of sorbent injection system for the existing coal-fired boiler for Unit 19 (the affected boiler). The new sorbent injection system would control mercury emissions by injecting sorbent, i.e., halogenated activated carbon, into the flue gas from this existing coal-fired boiler prior to the electrostatic precipitators (ESPs) for the affected boiler.
- b.
 - i. This permit is issued based on this project being an emissions control project, whose purpose and effect will be to reduce emissions of mercury from the existing coal-fired boiler and which will not significantly increase emissions of other PSD pollutants. As such, the terms and conditions of the existing permits will continue to govern emissions and operation of the boiler except as specifically indicated.
 - ii. This permit is issued based on negligible particulate matter (PM) emissions from the storage and handling of sorbent for the sorbent injection system. For this purpose emissions shall not exceed 0.44 tons/year. However Permittee shall comply with all applicable requirements of 35 Ill. Adm. Code Part 212 that apply to the storage and handling of sorbent.
- c. This permit does not authorize any modifications to the affected boiler or generating unit, which would increase capacity or potential emissions.
- 2a. The Permittee shall comply with applicable emission standards and requirements related to mercury emissions for the affected boiler pursuant to 35 IAC Part 225, Subpart B and/or Subpart F, by the applicable dates specified by these rules.

Note: The Permittee expects that it will comply with certain provisions of 35 IAC Part 225, Subpart F, which is still proposed, as an alternative to compliance with 35 IAC Part 225, Subpart B. If the Permittee elects to comply with 35 IAC Part 225, Subpart F, certain provisions of subpart B would not be applicable, and the provisions of Subpart F would set the dates when certain other requirements do become applicable.

- b. This permit does not affect the authorizations in existing operating permits for the affected boiler, pursuant to 35 IAC 201.149, 201.161 and 201.262, that allow the Permittee:
 - i. To operate an affected boiler in violation of certain state emission standards during startup of the boiler or the terms and conditions that accompanied such authorization.
 - ii. To continue to operate an affected boiler in violation of certain state emission standards during malfunction or breakdown of the boiler, including control devices and ancillary system, or the terms and conditions that accompanied such authorization.
- 3. At all times, the Permittee shall, to the extent practicable, maintain and operate the sorbent injection system including storage and handling of sorbent, in a manner consistent with good air pollution control practice for minimizing emissions from the existing coal-fired boiler and the source.
- 4a. The Permittee shall comply with all applicable requirements of 35 IAC Part 225, by the dates specified in the rules, related to monitoring of mercury emissions from the affected boiler.
- b. If the sorbent injection system can be adjusted remotely by personnel in the control room, the Permittee shall install, operate, and maintain instrumentation for measuring rate of sorbent injection for the affected boiler with the status of the system.
- 5a. The Permittee shall maintain following records for the coal supply for the affected boiler:
 - i. Applicable records required by 35 IAC Part 225, by the dates specified in the rules, related to sampling and analysis of the coal supply to the affected boiler for its mercury content.
 - ii. Records of mercury and heat content of the current coal supply to the affected boiler, with supporting data for the associated sampling and analysis methodology, so as to have representative data for the mercury content of the coal supply.
- b. The Permittee shall maintain the following records for the sorbent injection system on affected boiler:

- i. An operating log or other records for the system that, at a minimum, identify the sorbent that is being used, the setting(s) for sorbent injection rate and each period of time when an affected boiler was in operation without the system being operated with explanation, e.g., the boiler was being fired on natural gas.
 - ii. Maintenance and repair log or other records for the system that, at a minimum, list the activities performed, with date and description.
 - c. The Permittee shall maintain following records related to mercury emissions from the affected boiler:
 - i. All applicable records required by 35 IAC Part 225, by the dates specified in the rules, related of monitoring mercury emissions.
 - ii. During the period before the Permittee is required to conduct monitoring for the mercury emissions of the affected boiler pursuant to 35 IAC Part 225, the Permittee shall maintain records of any mercury emission data collected for the affected boiler, including emissions or control efficiency with identification and description of the mode of operation.
 - d. The Permittee shall retain all records required by this permit at the source for at least 5 years from the date of entry and these records shall be readily accessible to the Illinois EPA for inspection and copying upon request.
6. If there is any deviation from the requirements of this permit, the Permittee shall submit a report to the Illinois EPA within 30 days after the deviation or such other time period specified in the current CAAPP permit issued for the source. The report shall include a description of the deviation, a copy of relevant records, and measures to reduce emissions and future occurrences.
7. The Permittee shall notify the Illinois EPA when sorbent injection system on affected boiler starts operating.
8. The Illinois EPA has determined that this project, as described in the application, will not constitute a modification of the boiler under the federal New Source Performance Standards, 40 CFR 60, as the project has the primary function of reducing emissions and therefore is not considered a modification pursuant to 40 CFR 60.14(e)(5).
9. Two copies of required reports and notifications shall be sent to the Illinois EPA's Compliance Section at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency/Regional Office
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

10. The affected boiler may be operated with sorbent injection system pursuant to this construction permit until an operating permit becomes effective that addresses operation of this boiler with this system.

If you have any questions on this permit, please call Kunj Patel at 217/782-2113.

Edwin C. Bakowski, P.E.
Acting Manager, Permit Section
Division of Air Pollution Control

Date Issued: _____

ECB:CPR:KMP:psj

cc: Region 1