

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Southern Illinois Power Cooperative
Attn: Mr. Richard G. Myott
11543 Lake of Egypt Road
Marion, Illinois 62959-8500

Draft

Application No.: 00070028

I.D. No.: 199856AAC

Applicant's Designation: Unit #4 SCR

Date Received: July 12, 2000

Subject: Selective Catalytic Reduction System

Date Issued:

Location: 11543 Lake of Egypt Road, Marion

Permit is hereby granted to the above-designated Permittee to CONSTRUCT air pollution control equipment consisting of a Selective Catalytic Reduction (SCR) system for Unit 4 system which includes reactor vessels, an ammonia injection grid system and catalyst as described in the above referenced application. This Permit is subject to Standard Conditions attached hereto and the following Special Condition(s):

1. This permit is issued based on adding the SCR system to Unit 4, in order to reduce emissions of nitrogen oxides (NO_x) to comply with new requirements and ensuring that other contemporaneous projects at Marion Generating Station do not result in a significant net increase in NO_x emissions.
2. The Permittee is allowed to operate the SCR system under this construction permit for one year following the initial loading of catalyst for purposes of initial startup, routine shakedown, and trial operation. This period may be extended by the Illinois EPA upon written request of the Permittee if additional time is needed for shakedown and trial operation.
- 3a. The Permittee shall fulfill applicable provisions of the federal Acid Rain Program as related to the SCR system, including revising the NO_x compliance plan if needed; performing continuous emissions monitoring for NO_x and opacity; and reporting of NO_x emissions and opacity, pursuant to Title IV of the Clean Air Act and regulation thereunder.
 - b. i. The Permittee shall also records of the following items for the SCR system on:
 - A. Operating and maintenance procedures;
 - B. Operating log
 - C. Maintenance and repair log; including

D Usage of reagent, addition or replacement of a catalyst layer,

- ii. The Permittee shall keep a current catalyst management plan on site.
 - iii. These records shall be retained for three years and shall be available for inspection and copying by the Illinois EPA.
- 4a. The Permittee shall submit a quarterly report describing the project status until such time as the Permittee notifies the Illinois EPA that the SCR system has successfully demonstrated reliable operation. This report shall be sent to the following addresses:
- Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234
Telephone: 618/346-5120 Facsimile: 618/346-5155
- Illinois Environmental Protection Agency
Division of Air Pollution Control
Air Permit Section
P. O. Box 19506
Springfield, Illinois 62794-9506
Telephone: 217/782-2113 Facsimile: 217/524-5023
- b. The Permittee shall notify the Illinois EPA within 30 days after the SCR system begins initial operation, i.e., NO_x reducing agent is first introduced into the flue gas.
 - c. The Permittee shall notify the Illinois EPA when the SCR system has successfully demonstrated reliable operation. With this notification the Permittee shall discuss the effect of the SCR system on opacity levels, as determined by both monitoring and visual observation, and particulate matter emissions, including the results of any tests for particulate matter emissions conducted with the SCR system in operation.
5. The Illinois EPA has determined that this project, as described in the application, will not constitute a modification of Unit 4 under the federal New Source Performance Standards, 40 CFR 60 because the SCR system has the primary function of reducing air pollutants and therefore, is not considered a modification pursuant to 40 CFR 60.14(e)(5).
6. The Illinois EPA has determined that this project, as described in the application, will not constitute a modification for the SIPC, Marion Station under the federal Prevention of Significant Deterioration of air quality (PSD) rules because it is a pollution control project and therefore is not considered a modification pursuant to 40 CFR 52.21(b)(2)(iii)(h), and (b)(32).

If you have any questions concerning this permit, please contact Shashi Shah at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

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cc: Region 3