

AIR EMISSION PERMIT NO. 16300005- 008

IS ISSUED TO

Northern States Power Company d/b/a Xcel Energy

XCEL ENERGY - ALLEN S. KING GENERATING PLANT

Highway 95 & Point Road
Oak Park Heights, Washington County, MN 55082

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the following permit applications:

Permit Type	Application Date	Issue Date	Action #
Title V Reissuance	January 17, 2003	March 28, 2005	005
Administrative Amendment	January 13, 2006	March 2, 2006	006
Major Amendment	August 21, 2006	February 27, 2007	007
Administrative Amendment	October 1, 2007	See below	008
Major Amendment	December 7, 2007	See below	008

This permit authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Permit Type: Federal; Pt 70/NSR Authorization

Issue Date: 03/28/2005

Expiration: 02/22/2010

All Title I Conditions do not expire.

Major Amendment

Issue Date: 03/19/2008

Jeff J. Smith, Manager
Air Quality Permits Section
Industrial Division

for Brad Moore
Commissioner
Minnesota Pollution Control Agency

3. **Operation of Fabric Filter (CE017)** – The mandatory operation of the fabric filter (CE017) associated with boiler EU 001 in lieu of operating the existing electrostatic precipitators (ESP) (CE001 and CE002), is not required until the effective date of the total particulate emission limit (270 days after the first firing of the boiler EU001 with fuels other than natural gas following rehabilitation). The permit still requires that either the ESPs, or the fabric filter, are operated after the first firing of the boiler with fuels other than natural gas following the rehabilitation project.
4. **Removal of Hours of Operation Limit for GP 008 Emission Units**
5. **Removal of Emission Units** – Design changes since the original permit issuance have resulted in the elimination of the duct burner (EU030) and ammonia vaporizer (EU031) as emission units. References to these emission units were removed from the draft permit.
6. **Permit Language** – The language for compliance with Boiler MACT for the auxiliary boiler (EU028) was updated to incorporate changes in the regulation since the issuance of the initial permit.
7. **Changes to Ash Silo** – The permit will be updated to acknowledge that the fly-ash silo (EU012) now has a dedicated fabric filter (CE026) and its own stack (SV036), as opposed to venting through the main boiler stack, as it was previously permitted.
8. **Mercury Monitoring and Testing** – Xcel Energy will be operating a continuous emission monitor (CEM) to measure the mercury emissions from EU001 as a requirement of the Minnesota Mercury Reduction Act of 2006. Permit conditions for the operation of the CEM have been added to the draft permit. Because of the installation of the mercury CEM, it is no longer necessary to perform annual stack tests on mercury emissions after the initial performance test is completed.
9. **Installation of SCR Ash Bin Vent** – Installation of SCR ash bin and vent (EU039/SV037).
10. **Removal of Redundancy** – Language for Performance Test Notifications and Submittals in the original permit was located in the total facility requirements section as well as GP004, EU004, EU006, EU007, EU011, and EU028. The draft permit contains this language only in the total facility requirements in order to remove the redundant permit conditions.

Permit Action 008 (this permit action)

This major amendment authorizes changes requested in two separate permit applications: an administrative amendment application received on October 2, 2007; and a major amendment application received on December 11, 2007. The following changes are authorized:

EU001

- Extended the deadline for applicability of the NO_x limit by 180 days, from 270 days to 450 days after initial startup, because the shakedown period for the rehabilitation project is taking longer than expected;