

April 4, 2008

LICENSEE: PPL Susquehanna, LLC

FACILITY: Susquehanna Steam Electric Station

SUBJECT: SUMMARY OF ENVIRONMENTAL SITE AUDIT RELATED TO THE REVIEW OF THE LICENSE RENEWAL APPLICATION FOR SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 (TAC NOS. MD3022 AND MD3021)

From May 14, 2007 to May 17, 2007, a review team consisting of thirteen U.S. Nuclear Regulatory Commission (NRC) staff members and nine contractors from Argonne National Laboratory (ANL) participated in a site audit at the Susquehanna Steam Electric Station (SSES), as part of the environmental review of the SSES license renewal application. The site audit provided NRC staff the opportunity to review documentation (including plant environmental procedures), gather information to ensure that environmental requirements of license renewal (as codified in Title 10 of the *Code of Federal Regulations* Part 51, or 10 CFR Part 51) are met, and to interface with officials in State and local government agencies to obtain related information.

On Tuesday, May 15, 2007, the environmental review team participated in a general site tour of the SSES site with PPL Susquehanna, LLC (PPL) staff. The general site tour focused on areas relevant to the environmental review, including the intake structure, discharge structure, cooling towers, meteorological towers, water-sampling locations, site structures, the Riverlands, and other elements of the site environs. During the rest of the site audit, the team members examined the data used by PPL in preparing the Environmental Report, interviewed PPL representatives in discipline-specific groups, and participated in discipline-specific tours of the site.

Discipline-specific tours included radioactive waste processing systems and areas, non-radioactive and mixed-waste processing areas, meteorological towers and instruments, groundwater wells, transmission line right-of-ways, the river water intake structure, the Riverlands area, and the onsite environmental laboratory, as well as a boat tour to more closely examine the intake structure, above-water portions of the discharge, sections of the Susquehanna River upstream and downstream from the intake structure, and the shoreline of Gould Island. The NRC staff who participated in discipline-specific tours and interviews looked for potential impacts in the areas of air quality, water use and quality, terrestrial and aquatic ecology, human health and radiation protection, historic and archaeological resources, socioeconomics, land use, and environmental justice.

In addition, the NRC staff reviewed PPL's process for identifying new and significant information (information that would challenge the generic conclusions reached in the Generic Environmental Impact Statement for License Renewal of Nuclear Plants, NUREG-1437). PPL had identified no new and significant information, and the NRC staff's independent review during the course of the site audit did not identify any either.

The NRC team members met onsite with officials from the Pennsylvania Department of Environmental Protection (PADEP), the Pennsylvania Bureau of Radiation Protection (a division of PADEP), and staff from the Susquehanna River Basin Commission. Additionally, team members met offsite with State officials in Harrisburg, Pennsylvania, and in Wilkes-Barre, Pennsylvania. Information gathered through these offsite meetings will assist the environmental review team in its evaluation.

At the conclusion of the site audit, the NRC staff and ANL contractors summarized the status of the review with PPL representative and identified specific informational items NRC staff would need to complete their environmental review. Enclosure 2 contains a list of PPL's responses. These responses are publicly available, and can be found in the Agencywide Documents Access and Management System (ADAMS) using the accession numbers listed in Enclosure 2. ADAMS is accessible at <http://adamswebsearch.nrc.gov/dologin.htm> or through the NRC's Electronic Reading Room link at <http://www.nrc.gov>. Persons who do not have access to ADAMS, or who encounter problems in accessing the documents located in ADAMS, should contact the NRC's Public Document Room staff at 1-800-397-4209, or 301-415-4737, or by e-mail at pdr@nrc.gov.

In closing, the NRC staff indicated that the review team did not identify any significant issues during its site audit or during offsite meetings with other agencies. However, the NRC staff further indicated that the review was ongoing and that any additional information necessary to support the review would be formally handled through requests for additional information.

/RA/

Drew Stuyvenberg, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosures:
As stated

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Adams Accession No.: ML073480447

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Letter to PPL Susquehanna from D. Stuyvenberg, dated April 4, 2008

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SUBJECT: SUMMARY OF ENVIRONMENTAL SITE AUDIT RELATED TO THE REVIEW OF
THE LICENSE RENEWAL APPLICATION FOR SUSQUEHANNA STEAM
ELECTRIC STATION, UNITS 1 AND 2 (TAC NOS. MD3022 AND MD3021)

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SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2
ENVIRONMENTAL SITE AUDIT
MAY 15-17, 2007**

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**Information Submitted by PPL Susquehanna
Susquehanna Steam Electric Station, Units 1 and 2
Following the U.S. Nuclear Regulatory Commission's
Environmental Site Audit**

Document Name	ADAMS Accession Number
Environmental Audit Document Requests, Supplemental Information	ML071800069
Environmental Audit Document Requests, Other Reference Information	ML071800156
Responses to Environmental Audit Questions	ML071790414
Follow-up to Environmental Audit Document Requests for Supplemental Information	ML072200111

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