UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

June 28, 2007

Mr. Britt T. McKinney
Senior Vice-President & Chief Nuclear Officer
PPL Susquehanna, LLC
769 Salem Blvd. - NUCSB3
Berwick, PA 18603-0467

SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION - NRC INSPECTION REPORT 05000387/2007403 AND 05000388/2007403

Dear Mr. McKinney:

On June 8, 2007, the United States Nuclear Regulatory Commission completed an inspection at your Susquehanna Steam Electric Station, Units 1 and 2. The enclosed inspection report documents the inspection results which were discussed on June 8, 2007, with Mr. V. Schuman and other members of your staff.

This inspection examined activities conducted under your license as they relate to safety, common defense and security, and compliance with NRC Orders related to the transportation of radioactive material and the handling of safeguards information. The inspection was based upon Temporary Instruction (TI) 2201/001, "Inspection of Additional Security Measures for Radioactive Material Quantities of Concern (RAMQC)." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no violations were identified. No reply to this letter is required.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component for the NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

Sincerely,

/RA/

Raymond Lorson, Chief
Decommissioning Branch
Division of Nuclear Materials Safety

Docket Nos. 05000387; 05000388
License Nos. NPF-14; NPF-22

Enclosure: Inspection Report 05000387/2007403 and 05000388/2007403
w/Attachment: Supplemental Information

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U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket Nos: 50-387; 50-388

License Nos: NPF-14; NPF-22

Report No: 05000387/2007403 and 05000388/2007403

Licensee: PPL Susquehanna, LLC (PPL)

Facility: Susquehanna Steam Electric Station, Units 1 & 2

Location: Berwick, PA 18603-0467

Date: June 8, 2007

Inspectors: Laurie Kauffman, Health Physicist
John Nicholson, Health Physicist

Approved by: Raymond Lorson, Chief
Decommissioning Branch
Division of Nuclear Materials Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000387/2007403 and 05000388/2007403; Susquehanna Steam Electric Station, Units 1 & 2; Inspection of Additional Security Measures for Radioactive Material Quantities of Concern (RAMQC)

The report covered an announced one-day inspection related to safety, common defense and security, and compliance with NRC Orders related to the transportation of radioactive material and the handling of safeguards information. The inspection was conducted by two regional inspectors and was based upon Temporary Instruction (TI) 2201/001, "Inspection of Additional Security Measures for Radioactive Material Quantities of Concern (RAMQC)." The inspectors determined that the licensee had developed an adequate program for the transportation of radioactive material and the handling of safeguards information.

A. NRC Identified and Self-Revealing Findings

Cornerstone: Physical Security

No findings of significance were identified.

B. Licensee-Identified Violations

None.

REPORT DETAILS

4OA5 Other Activities

.1 Temporary Instruction 2201/001 - Inspection of Additional Security Measures for Radioactive Material Quantities of Concern (RAMQC) - 1 sample

a. Inspection Scope

The inspectors reviewed the RAMQC program to assess the licensee's implementation of the additional security measures (ASM) imposed by NRC Order EA-05-007, "Imposing Additional Security Measures on the Transportation of RAMQC," issued July 19, 2005. The inspectors also reviewed the implementation of the Safeguards Information-Modified Handling (SGI-M) protection requirements specified in NRC Order EA-04-0191, "Imposing Requirements for the Protection of Certain Safeguards Information," issued November 5, 2004.

The inspectors reviewed each ASM and SGI-M requirement identified in the orders referenced above. The inspectors interviewed personnel and reviewed program documents and implementing procedures.

b. Findings and Observations

No findings of significance were identified. The inspectors concluded that PPL personnel developed an adequate RAMQC program.

40A6 Meetings, Including Exit

Exit Meeting Summary

On June 08, 2007, the NRC inspectors presented the inspection results to Mr. Schuman and staff members. The inspectors confirmed that proprietary and safeguards information was not included in this inspection report.

Attachment: Supplemental Information

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

PPL Susquehanna, LLC
B. McBride, Site Access Specialist, Security
R. Sgarro, Manager, Nuclear Regulatory Affairs
M. Rose, Manager, Quality Assurance
J. Griswold, Senior Assessor, Nuclear Assurance
V. Schuman, Manager, Radiation Protection
R. Hock, Radiation Operations Supervisor, Radioactive Waste
M. Micca, Health Physicist, Radioactive Waste
D. Brophy, Senior Engineer, Nuclear Regulatory Affairs
B. O'Rourke, Senior Engineer, Nuclear Regulatory Affairs
R. Stigers, Senior Health Physicist, Radioactive Waste

LIST OF ITEMS OPENED, CLOSED AND DISCUSSED

OPEN	Temporary Instruction (TI) 2201/001 - Inspection of Additional Security Measures for Radioactive Material Quantities of Concern (RAMQC)
CLOSED	Temporary Instruction (TI) 2201/001 - Inspection of Additional Security Measures for Radioactive Material Quantities of Concern (RAMQC)

LIST OF DOCUMENTS REVIEWED

Section 4OA5 Other Activities

Procedures
WM-GP-009 Revision 7, Hazardous Material Transportation Accident Immediate Response Information Transmittal
WM-PS-100, Revision 10, Shipment of Radioactive Waste
WM-PS-180, Revision 8, Advanced Notification of Applicable States
NDAP-QA-0641 Revision 6, Waste Management Program
NDAP-QA-0720, Revision 13, Station Report Matrix and Reportability Evaluation Guidance

LIST OF ACRONYMS

ASM	Additional Security Measures
CR	Condition Report
PPL	PPL Susquehanna, LLC
RAMQC	Radioactive Material Quantities of Concern
SGI-M	Safeguards Information-Modified Handling
TI	Temporary Instruction