

November 14, 2007

Mr. Britt T. McKinney
Sr. Vice President
and Chief Nuclear Officer
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769 Salem Blvd., NUCSB3
Berwick, PA 18603-0467

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI) - SUSQUEHANNA STEAM
ELECTRIC STATION, UNITS 1 AND 2 (SSES 1 AND 2) – ELECTRICAL
POWER SYSTEMS TECHNICAL SPECIFICATION (TS) 3.8.1 (TAC NO.
MD4766)

Dear Mr. McKinney:

In reviewing your letter dated March 2, 2007, concerning your request to add a new ACTIONS Note 3 to Unit 2 TS 3.8.1 to allow a Unit 1 4160 volt subsystem to be de-energized and removed from service to perform bus maintenance, the Nuclear Regulatory Commission staff has determined that additional information contained in the enclosure to this letter is needed to complete its review. These questions were discussed with your staff during a teleconference on November 8, 2007. As agreed to by your staff, we request you respond by December 7, 2007.

If you have any questions, please contact me at 301-415-1030.

Sincerely,

/ra/

Richard V. Guzman, Senior Project Manager
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosure:
RAI

cc w/encl: See next page

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Accession Number: ML073130055

* RAI provided by memo. No substantive changes made.

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DATE	11/14/07	11/14/07	10/11/07	11/14/07

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REQUEST FOR ADDITIONAL INFORMATION (RAI)

RELATING TO ELECTRICAL POWER SYSTEMS

TECHNICAL SPECIFICATION 3.8.1

SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 (SSES 1 AND 2)

PPL SUSQUEHANNA, LLC

DOCKET NOS. 50-387 AND 50-388

The Nuclear Regulatory Commission (NRC) staff is reviewing the proposed license amendment from PPL Susquehanna, LLC (PPL, the licensee) to Facility Operating License No. NPF-14 and NPF-22 related to Technical Specification (TS) 3.8.1, "Electrical Power Systems – AC Sources Operating," for SSES 2. The NRC staff has determined that additional information requested below will be needed to complete its review.

1. PPL proposes to revise a new ACTIONS Note 3 to the SSES 2 TS 3.8.1 to allow a Unit 1 4160 volt (V) subsystem to be de-energized and removed from service to perform bus maintenance. Provide assurance for the following:
 - a) No maintenance or testing that affects the reliability of the remaining trains will be scheduled during the SSES Unit 1 bus maintenance. If any testing and maintenance activities must be performed during this time, an evaluation will be performed in accordance with Title 10 to the *Code of Federal Regulations* (10 CFR) Section 50.65(a)(4).
 - b) The scheduling of SSES Unit 1 4160 V bus preplanned maintenance will be avoided during seasons when the probability of severe weather or grid stress conditions is high or forecasted to be high.
 - c) The system load dispatcher will be contacted once per day to ensure no significant grid perturbations are expected during the bus maintenance. Also, the system load dispatcher should inform the plant operator if conditions change during the bus maintenance (e.g., unacceptable voltages could result due to a trip of the nuclear unit).
 - d) Component testing or maintenance of safety systems and important non-safety equipment including offsite power systems (auxiliary and startup transformers) that increase the likelihood of a plant transient or loss of offsite power will be avoided. In addition, no discretionary switchyard maintenance will be allowed.
 - e) TS requirements of verification that the required systems, subsystems, trains, components, and devices that depend on the remaining 4160 V buses are operable and positive measures will be provided to preclude subsequent testing or maintenance activities on these systems, subsystems, trains, components, and devices (e.g., the Unit 1 4160 V bus breakers will not lockout any of the remaining emergency 4160 V supplies).

Enclosure

- f) Safety-related steam driven pumps will be controlled as “protected equipment,” and will not be taken out of service for planned maintenance while an SSES Unit 1 4160 V bus is out of service for extended maintenance.
- g) Any component testing or maintenance that increases the likelihood of a plant transient would be avoided; plant operation should be stable during SSES Unit 1 4160 V maintenance.

Susquehanna Steam Electric Station, Unit Nos. 1 and 2

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