



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 3, 2012

Mr. Joseph W. Shea
Manager, Corporate Nuclear Licensing
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2 – REQUEST FOR
ADDITIONAL INFORMATION REGARDING USE OF THE UNIT STATION
SERVICE TRANSFORMERS AS A POWER SUPPLY TO AN OFFSITE CIRCUIT
(TAC NOS. ME8772 AND ME8773)

Dear Mr. Shea:

By letter dated May 23, 2012, you submitted an application for a license amendment to revise the Sequoyah Nuclear Plant, Units 1 and 2, Technical Specification 3/4.8.1 to include a surveillance requirement to demonstrate the required offsite circuits OPERABLE at least once per 18 months by manually and automatically transferring the power supply to a 6.9 kilovolt unit board from the normal supply to the alternate supply. This change is necessary as a result of the planned modifications to the plant design and operating configuration that will allow use of the unit station service transformers as a power supply to an offsite circuit.

The U.S. Nuclear Regulatory Commission staff is reviewing the submittal and has determined that additional information is required to complete its evaluation. This request was discussed with Mr. Clyde Mackaman of your staff on August 2, 2012, and it was agreed that a response would be provided within 30 days from the date of this letter.

If you have any questions regarding this matter, I can be reached at 301-415-1564.

Sincerely,

A handwritten signature in black ink that reads "Siva P. Lingam".

Siva P. Lingam, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-327 and 50-328

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION
REGARDING TECHNICAL SPECIFICATION CHANGES
TO ALLOW USE OF THE UNIT STATION SERVICE TRANSFORMERS
AS A POWER SUPPLY TO AN OFFSITE CIRCUIT
SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2
DOCKET NOS. 50-327 AND 50-328

By letter dated May 23, 2012 (Agencywide Documents Access and Management System Accession No. ML12146A385), the Tennessee Valley Authority submitted a license amendment request to revise the Sequoyah Nuclear Plant, Units 1 and 2, Technical Specification 3/4.8.1 to include a surveillance requirement (SR) to demonstrate the required offsite circuits OPERABLE at least once per 18 months by manually and automatically transferring the power supply to a 6.9 kilovolt unit board from the normal supply to the alternate supply. This change is necessary as a result of the planned modifications to the plant design and operating configuration that will allow use of the unit station service transformers as a power supply to an offsite circuit. In order to complete its review of the above documents, the U.S. Nuclear Regulatory Commission staff needs the following additional information:

1. Will any procedure changes be required to support the transformer modification (e.g., loss of off-site power)?
2. Will any changes to training be required to support the transformer modification? If not, how will operators know what changes were made? Note: Arguments made on the basis that the SR is virtually identical to the old SR are not acceptable - because the old SR was deleted in 1997, it should be treated as if it was new.
3. Will any changes to displays, controls, alarms, annunciators or the safety parameter display system be required to support the transformer modification?
4. Are the actions to manually back up the automatic reconfiguration of power sources performed in the control room? If not, what environmental conditions are expected?
5. Are there any time constraints on manual backup (e.g., are there time limits beyond which the action will not be effective, or equipment will be damaged)?
6. Does the licensee plan to perform a simulation or a walkthrough of the proposed manual actions under realistic conditions to determine whether:
 - the procedures are complete, technically accurate, and usable;
 - the training program appropriately addressed the changes in plant systems and the proposed action(s);
 - the proposed action(s) can be completed within the time criterion for each applicable scenario?

Enclosure

August 3, 2012

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/RA/

Siva P. Lingam, Project Manager
Plant Licensing Branch II-2
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