



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

August 2, 2013

Mr. Joseph W. Shea
Vice President, Nuclear Licensing
Tennessee Valley Authority
1101 Market Street, LP 3D-C
Chattanooga, TN 37402-2801

SUBJECT: WATTS BAR NUCLEAR STATION, UNIT 1 – REQUEST FOR ADDITIONAL INFORMATION RELATED TO APPLICATION TO MODIFY WATTS BAR NUCLEAR PLANT, UNIT 1 TECHNICAL SPECIFICATION 3.7.10 CONTROL ROOM EMERGENCY VENTILATION SYSTEM (TAC NO. MF0312)

Dear Mr. Shea:

By letter dated November 19, 2012, Tennessee Valley Authority submitted a license amendment request for Watts Bar Nuclear Plant (WBN), Unit 1. The proposed amendment request seeks approval to modify the WBN Unit 1 Technical Specification 3.7.10 "Control Room Emergency Ventilation System."

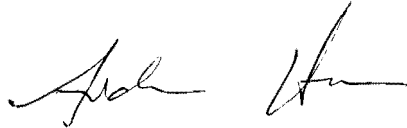
The U.S. Nuclear Regulatory Commission (NRC) staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. The proposed questions were discussed by telephone with your staff on July 16, 2013. Your staff confirmed that these questions did not include proprietary or security-related information and agreed to provide a response within 30 days from the date of this request for additional information (RAI).

J. Shea

- 2 -

The NRC staff considers that timely responses to RAIs help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-8480 or via e-mail Andrew.Hon@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew Hon", written in a cursive style.

Andrew Hon, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-390

Enclosure:
Request for Additional Information

cc w/encl: Distribution via ListServ

REQUEST FOR ADDITIONAL INFORMATION

LICENSE AMENDMENT REQUEST TO TECHNICAL SPECIFICATION 3.7.10

CONTROL ROOM EMERGENCY VENTILATION SYSTEM

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT, UNIT 1

DOCKET NO. 50-390

By letter dated November 19, 2012 (Agencywide Documents Access and Management System Accession No. ML12333A240), the Tennessee Valley Authority submitted a license amendment request to revise the Watts Bar Nuclear Plant, Unit 1 Technical Specification (TS) 3.7.10. Control Room Emergency Ventilation System (CREVS). The proposed TS revision would require a unit shutdown within the TS 3.7.10 Actions instead of entering Limiting Condition for Operation (LCO) 3.0.3, when both CREVS trains are inoperable in MODE 1, 2, 3, or 4 due to actions taken as a result of a tornado warning and the Completion Time of 8 hours for restoration of at least one CREVS train to OPERABLE status is not met. In order to complete its review of the above document, the U.S. Nuclear Regulatory Commission staff requests additional information as follows:

RAI - 1

What is the normal air leakage into the main control room when depressurized? If this value of inleakage is assumed during the accident, do the operators exceed the doses listed under the Updated Final Safety Analysis Report General Design Criterion 19 dose criteria?

RAI - 2

What is the result of the probability analysis of a tornado during an 8-hour? What is the probability of a Design-Basis Accident in conjunction with a tornado warning?

RAI - 3

What considerations/controls are in place in order to protect control room personnel in the event of an accident occurring when the tornado dampers are shut?

RAI - 4

Most tornado dampers are designed to close when there is a high differential pressure caused by a tornado and then reopen after the tornado is gone. The CREVS tornado dampers at Watts Bar are closed manually during a tornado warning. Please identify all tornado dampers at Watts Bar required to be closed during a tornado warning. How are the TSs related to these other tornado dampers (such as: TS 3.7.12, Auxiliary Building Gas Treatment System, TS 3.6.9, Emergency Gas Treatment System, TS 3.8.1, Diesel Generators, and TS 3.9.8, Reactor Building Purge Air Cleanup Units [during fuel movement]) affected by the proposed change?

Enclosure

J. Shea

- 2 -

The NRC staff considers that timely responses to RAIs help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-8480 or via e-mail Andrew.Hon@nrc.gov.

Sincerely,

/RA/

Andrew Hon, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-390

Enclosure:
Request for Additional Information

cc w/encl: Distribution via ListServ

PUBLIC
LPL2-2 Reading File
RidsAcrsAcnw_MailCTR Resource
RidsNrrDorlLpl2-2Resource
RidsNrrLABClayton Resource
RidsNrrPMWattsBar1 Resource
RidsNrrDorIDpr Resource
RidsNrrDorIDssScvb Resource
RidsRgn2MailCenter Resource

ADAMS Accession No.: ML13210A195

* by memo ML13156A275

| | | | | | |
|--------|-----------|-----------|-----------|--------------------------|-----------|
| OFFICE | LPL2-2/PM | LPL2-2/LA | SCVB/BC | LPL2-2/BC (A) | LPL2-2/PM |
| NAME | AHon | BClayton | RDennig* | DBroaddus (FSaba for) | AHon |
| DATE | 07/31/13 | 07/30/13 | 7/22/2013 | 08/02/13 | 08/02/13 |

OFFICIAL RECORD COPY