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

August 31, 2009

LICENSEE: Tennessee Valley Authority

FACILITY: Watts Bar Nuclear Power Plant, Unit 2

SUBJECT: SUMMARY OF AUGUST 6, 2009, MEETING WITH TENNESSEE VALLEY AUTHORITY (TVA) REGARDING WATTS BAR UNIT 2 CONSTRUCTION REFURBISHMENT PROGRAM

On August 6, 2009, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of TVA at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss the Watts Bar Nuclear Plant (WBN) Unit 2 construction refurbishment program information submitted by letter dated July 8, 2009.

The licensee presented information (ADAMS Accession No. ML092310466) that described the WBN Unit 2 Material Condition, Refurbishment Program, Refurbishment Program Implementation, and Testing Program.

The staff queried the licensee on specific issues related to the July 8, 2009, letter and the licensee's presentation. A summary of the questions and comments discussed is contained in enclosure 2.

Members of the public were not in attendance. Public Meeting Feedback forms were not received.

Please direct any inquiries to me at 301-415-6606 or Joel.Wiebe@nrc.gov.

Joel S. Wiebe, Senior Project Manager
Watts Bar Special Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-391

Enclosures:
List of Attendees
Summary of Questions and Comments

cc w/encls: Distribution via Listserv

LIST OF ATTENDEES

AUGUST 6, 2009, MEETING WITH TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT, UNIT 2

CONSTRUCTION REFURBISHMENT PROGRAM

Nuclear Regulatory Commission Participants:

Name	Position/Title	Organization
L. Raghavan	Chief	Watts Bar Special Projects Branch (WBPB)
Greg Casto	Chief	Balance of Plant Branch (SBPB)
Patrick Milano	Sr. Project Manager	WBPB/DORL
Joel Wiebe	Sr. Project Manager	WBPB/DORL
Edward Smith	Reactor Systems Engineer	SBPB/DE
Dan Hoang	Structural Engineer	Mechanical and Civil Engineering Branch (EMCB)/DE
Sam Miranda	Reactor Systems Engineer	Reactor Systems Branch (SRXB)/DSS
Emma Wong	Chemical Engineer	Steam Generator Tube Integrity and Chemical Engineering Branch (CSGB)/DCI
John Billesbeck	Reactor Operations Engineer	Reactor Inspections Branch (IRIB)/DIRS
Farhad Farzam	Sr. Structural Engineer	EMCB/DE
James Isom	Sr. Reactor Operations Engineer	IRIB/DIRS
Keith Hoffman	Materials Engineer	Component Performance and Testing Branch (CPNB)/DCI
Steve Tingen	Engineer	CPTB/DCI
Harold Walker	Sr. Reactor Systems Engineer	Containment and Ventilation Branch (SCVB)/DSS
George Thomas	Structural Engineer	EMCB/DE
Matthew McConnell	Electrical Engineer	Electrical Engineering Branch (EEEB)/DE

Tennessee Valley Authority (TVA) Participants:

Gordon Arent	Licensing Manager	TVA
Bill Crouch	Engineering Manager	TVA
Jerry Schlessel	Construction Manager	TVA

SUMMARY OF QUESTIONS AND COMMENTS

AUGUST 6, 2009, MEETING WITH TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT, UNIT 2

CONSTRUCTION REFURBISHMENT PROGRAM

During the meeting presentation by Tennessee Valley Authority (TVA), the Nuclear Regulatory Commission staff asked a number of questions to obtain further clarification of the overall program plan and the method of implementation. In addition, the NRC staff had certain comments regarding some of the details presented. The following is a summary of the questions and comments:

1. Describe how TVA will be establishing the qualified life for each type of component in its plan.

2. For Watts Bar Nuclear (WBN) Unit 2, what is the edition (year) used for the code of record of the American Concrete Institute (ACI) Code and American Institute of Steel Construction (AISC) Code?

3. TVA's Master Equipment List (MEL) does not include all components. Describe the process to update the MEL and reconcile the final MEL prior to system turnover for startup testing. In addition, how will subcomponents inside panels or other devices be addressed?

4. Spring-can type pipe supports have been considered as passive components. What will the program require for refurbishment of them to ensure that the springs have not been damaged (spring constant changed) due to being in a loaded configuration for a number of years? For example, spring cans locked or pinned since construction.

5. Describe how masonry-block walls will be addressed in the program.

6. For each component commodity or attribute listed in Attachment 3 to the program plan, discuss how the specific acceptance criteria will be provided to the inspection personnel. Describe the specific acceptance criteria that will be used for the evaluations.

7. For instrumentation subcomponents that will not be replaced (e.g., resistance temperature detectors, thermocouple probes, etc.), describe how TVA plans to verify their acceptability. During its review of the program plan, the staff may need to review selected TVA procedures for instrumentation.

8. Discuss the qualification requirements for Engineering or other field personnel who would be performing the inspections and/or evaluations.

9. Were any of the safety-related structures at WBN Unit 2 supported by steel piles? If so, how are these piles being inspected or evaluated? Similarly, confirm the methods for inspecting subsurface foundations for structures.

10. Describe the source criteria that will be used during the refurbishment of relief valves.

11. How will be disk to valve seat coefficient of friction be assessed for air-operated valves?

12. Is a summary of the test data for the concrete in structures available? Summarize the results of the closure report for the Concrete Issues Corrective Action Program Plan. Describe the monitoring and management of potential corrosion of embedded steel and degradation of concrete. Is the groundwater tested for non-aggressive elements in order to understand how ground-water intrusion impacts concrete and reinforcing steel.

13. For the WBN Unit 2 equipment that is already in service to support Unit 1, discuss the manner in which TVA will determine that the equipment meets the design and licensing conditions related to the qualified life at Unit 2.

14. Describe the scope of the pre-service inspection of the containment liner and associated containment penetrations, bellows, and coatings.

15. Does TVA have a program to monitor the differential settlement of structures at Unit 2?

16. In reference to the information on page 20 of the plan, state the reasons for not replacing all elastomer or other seals such as ice condenser inlet door seals. What will be done to evaluate these seals?

17. Describe TVA's plans for oversight and auditing of the implementation of the program and the accomplishment of program objectives.

18. If there will be procurement of equipment and parts from suppliers not possessing programs and qualifications under Title 10, Code of Federal Regulations, Part 50, Appendix B, how will the commercial grade dedication be accomplished?

19. What is being done to evaluate the load-carrying requirements for anchor bolts?

20. Provide the schedule for completion of procedures for refurbishment, inspection, and engineering evaluations under the program plan. The staff will use the schedule and listing to determine if it will audit selected procedures.

Meeting Summary to Tennessee Valley Authority from Joel S. Wiebe dated

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/RA/
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ADAMSAccession No. PKG ML092310428 Meetlng Summary ML092380145
Meeting Notice ML092080363 Handouts ML092310466

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Date	08/27/09	08/27/09	08/31/09	08/31/09

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