Docket Nos. 50-259 and 50-296

LICENSEE: Tennessee Valley Authority

FACILITY: Browns Ferry Nuclear Plant, Units 1 and 3

SUBJECT: SUMMARY OF THE SEPTEMBER 25, 1991 MEETING WITH THE TENNESSEE

VALLEY AUTHORITY REGARDING THE DESIGN BASELINE VERIFICATION PROGRAM FOR PROWNS FERRY UNILS 1 AND 3 (TAC NOS. M80687 AND

M80688)

A meeting was held at the NRC Headquarters in Rockville, Maryland on September 25, 1991, between representatives of the Tennessee Valley Arthority (TVA) and the NRC to discuss the Design Baseline Verification Progra (DBVP) for the Browns Ferry Nuclear Plant (BFN) Units 1 and 3. Enclosure 1 lists the meeting attendees. Enclosure 2 provides a copy of the hand-outs provided by TVA.

TVA described the BFN Unit 1 and 3 DBVP in a letter dated June 13, 1991. TVA had reviewed the DBVP as implemented at BFN Unit 2. The Unit 2 program is being performed in two phases, and Phase II will be complete during the next Unit 2 refueling outage. TVA plans to complete Phases I and II of the DBVP for BFN Units 1 and 3 prior to restart of each unit. For BFN Unit 2, TVA evaluated differences between as-designed and as-constructed drawings for reconciliation with the design basis. For BFN Units 1 and 3, the as-constructed drawings will be directly reconciled with the design basis. From this reconciliation, TVA will produce new "as-designed" drawings. Page 10 of Enclosure 2 provides a summary of the differences between the BFN Unit 2 program and the revised DBVP planned for BFN Units 1 and 3. The revised DBVP for BFN Units 1 and 3 appears to be consistent with or more comprehensive than that previously accepted for BFN Unit 2.

Original signed by

Joseph F. Williams, Project Manager Project Directorate II-4 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Enclosures:
1. List of Attendees
2 app of TVA Hand-outs

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NAME : Manders Man :TRoss 74	:JWilliams Ak/: FHebdon
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Document Name: BFN 9/25 MTG SUMMARY

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ENCLOSURE 1

TVA/NRC Meeting

September 25, 1991

NAME

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Bill Crouch
C. Gayle Creamer
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Joe McCarthy
Jeff Rinne
Joe Williams

Organization

TVA-Rockville	301-770-6790
TVA-Mechanical/Nuclear	205-230-5840
TVA-Restart Eng. Mgr.	205-230-5801
TVA-Design Integration	205-230-5800
TVA-Restart Lic. Mgr.	205-729-2703
TVA-Electrical	205-230-5870
NRR/DRPE/PDII-4	301-492-1470

AGENDA AND ATTENDEES TVA/NRC MEETING - SEPTEMBER 25, 1991 DESIGN BASELINE VERIFICATION PROGRAM (DBVP)

TOPIC	SPOKESMAN	
INTRODUCTIONS AND AGENDA	J. E. McCARTHY	
BACKGROUND AND COMPARISON BETWEEN THE UNITS 1 AND 3 PROGRAM AND THE UNIT 2 PRECEDENT	R. N. LILLESTON	
CONCLUSION	C. G. CREAMER	
DISCUSSION	OPEN	

TOPIC

SPOKESMAN

BACKGROUND

- THE UNIT 2 AND COMMON DESIGN BASELINE VERIFICATION PROGRAM (DBVP) WAS DEVELOPED TO ADDRESS THE FOLLOWING CONCERNS:
 - INCONSISTENCIES BETWEEN AS-CONSTRUCTED AND AS-DESIGNED DRAWINGS
 - THE PLANT CONFIGURATION WAS NOT RECONCILED WITH THE DESIGN BASIS
 - EXTERNAL REVIEWS INDICATED WEAKNESSES IN SOME PLANT MODIFICATIONS

TOPIC

SPOKESMAN

BACKGROUND (CONTINUED)

- . THE SCOPE OF THE UNIT 2 DBVP:
 - PHASE I THE SAFE SHUTDOWN BOUNDARY PRIOR TO RESTART
 - PHASE II THE REMAINDER OF THE SAFETY RELATED EQUIPMENT PRIOR TO RESTART FROM THE NEXT REFUELING OUTAGE
- . THE OBJECTIVES OF THE UNIT 2 DBVP WERE:
 - TO RE-ESTABLISH THE PLANT'S DESIGN BASIS
 - EVALUATE THE PLANT CONFIGURATION TO ENSURE IT SATISFIES THE DESIGN BASIS

TOPIC

SPOKESMAN

BACKGROUND (CONTINUED)

- . THE OBJECTIVES OF THE DBVP WERE ACCOMPLISHED BY:
 - 1) ESTABLISH THE DESIGN BASIS INPUT
 - 2) ESTABLISH THE PLANT CONFIGURATION
 - 3) EVALUATE THE PLANT CONFIGURATION AGAINST THE DESIGN BASIS
 - 4) ISSUE THE OUTPUT DOCUMENTS

TOPIC

SPOKESMAN

BACKGROUND (CONTINUED)

- . STEP 1 ESTABLISH THE DESIGN BASIS INPUT
 - COMMITMENTS/REQUIREMENTS DATA BASE
 - DESIGN CRITERIA DOCUMENTS
 - SYSTEM REQUIREMENTS CALCULATIONS
 - ESTABLISH ESSENTIAL CALCULATIONS
 - ESTABLISH TEST REQUIREMENTS

TOPIC

SPOKESMAN

BACKGROUND (CONTINUED)

- . STEP 2 ESTABLISH THE PLANT CONFIGURATION
 - WALKDOWNS
 - VERIFICATION OF ELECTRICAL LOGIC
 - TESTING

TOPIC

SPOKESMAN

BACKGROUND (CONTINUED)

- STEP 3 EVALUATE THE PLANT CONFIGURATION AGAINST THE DESIGN BASIS
 - FUNCTIONAL EVALUATION OF DRAWINGS VERSUS
 DESIGN REQUIREMENTS
 - EVALUATE CONFIGURATION THROUGH TESTING
 - EVALUATE UNIMPLEMENTED OR PARTIALLY IMPLEMENTED DESIGN CHANGES
 - IDENTIFY OPEN ITEMS

TOPIC

SPOKESMAN

BACKGROUND (CONTINUED)

- . STEF . ISSUE THE OUTPUT DOCUMENTS
 - RESOLVE OPEN ITEMS
 - DRAWINGS
 - SYSTEM EVALUATION REPORTS
 - FINAL REPORT

TOPIC

SPOKESMAN

DIFFERENCES BETWEEN THE UNITS 1 AND 3 PROGRAM AND THE UNIT 2 PRECEDENT

- DESCRIBED IN TVA'S JUNE 13, 1991 SUBMITTAL
- . SHOWN IN THE ATTACHED COMPARISON

SUMMARY OF DIFFERENCES

UNIT 2 PROGRAM	UNITS 1 AND 3 PROGRAM
- SAFE SHUTDOWN BOUNDARY PRIOR TO RESTART	SAFETY RELATED EQUIPMENT PRIOR TO RESTART
DEVELOPED COMMITMENTS/REQUIREMENTS DATABASE	• UPDATE UNIT 2 COMMITMENT/REQUIREMENT DATABASE AND INCORPORATE UNITS 1 OR 3 SPECIFIC COMMITMENTS
DEVELOPED ESSENTIAL CALCULATIONS	REVISE EXISTING CALCULATIONS WHENEVER POSSIBLE
EVALUATED DIFFERENCES BETWEEN THE AS-DESIGNED AND VERIFIED AS-CONSTRUCTED DRAWINGS	UTILIZE VERIFIED AS-CONSTRUCTED DRAWINGS DIRECTLY
GENERATED DESIGN CRITERIA DOCUMENTATION	VALIDATE APPLICABILITY OF UNIT 2 DOCUMENTATION TO UNITS 1 AND 3 AND INCORPORATE ANY UNIQUE COMMITMENTS OR REQUIREMENTS

TOPIC

SPOKESMAN

CONCLUSION

C. G. CREAMER

- THE DESIGN BASELINE VERIFICATION PROGRAM FOR UNITS 1
 AND 3 WILL RESULT IN THE SAME LEVEL OF ASSURANCE
 AS THE UNIT 2 PROGRAM
- THE DIFFERENCES BETWEEN THE UNITS 1 AND 3 PROGRAM
 AND THE UNIT 2 PRECEDENT
 - INCREASED RESTART SCOPE
 - ADD UNITS 1 AND 3 SPECIFIC REQUIREMENTS
- TVA DOES NOT CONSIDER A SPECIFIC SER NECESSARY

	TOPIC	SPOKESMAN
DISCUSSION		OPEN