

50-390



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

March 17, 1995

APPLICANT: Tennessee Valley Authority (TVA)
FACILITY: Watts Bar Nuclear Plant
SUBJECT: MEETING SUMMARY - MANAGEMENT MEETING WITH THE TENNESSEE VALLEY
AUTHORITY (TVA) REGARDING STATUS OF VARIOUS WATTS BAR ISSUES
(TAC M72494)
REFERENCE: Meeting notice by P. S. Tam, February 9, 1995

On February 23, 1995, NRC and TVA representatives met in the NRC office in Rockville, Maryland to discuss Watts Bar Unit 1 licensing and inspection issues that warrant management attention. The first portion of the meeting, when the staff met with representatives of the TVA Inspector General, was closed to the public, while the balance was open. Enclosure 1 is a list of meeting participants.

TVA's presentation was outlined by the handout material (Enclosure 2). Action items agreed to during the meeting are listed in Enclosure 3.

The staff described a program designed to provide, in narrative form, an overall assessment on the quality and hence the licensability of Watts Bar Unit 1, taking into account all the activities that were undertaken by TVA and the staff. The staff's assessment will be published in a supplement to the Watts Bar Safety Evaluation Report (NUREG-0847).

The staff also described its efforts, mostly completed, to assure completion of review, implementation and verification of all pertinent generic issues. Interim results were transmitted to TVA by a letter dated February 23, 1995. (A copy of that letter was provided to TVA during the meeting.) Participants agreed that pending TVA's review of that letter, a meeting may be held in mid March to discuss TVA's response.

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PDR ADOCK 05000390
PDR
A

DFD

Participants agreed that the next management meeting will take place at the Watts Bar site in mid April 1995 (after the meeting, the date was set for April 12).

Original signed by

Peter S. Tam, Senior Project Manager
Project Directorate II-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-390

- Enclosures:
1. Participants list
 2. TVA handout
 3. Action items for the April 12, 1995 mtg.

cc w/enclosures: See next page

Distribution w/enclosures 1 and 2

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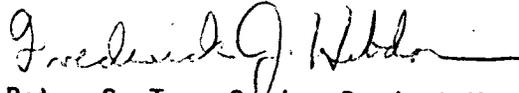
*SEE PREVIOUS CONCURRENCE

OFFICE	PDII-4/LA*	PDII-4/PM*	Region II*	PDII-4/D	E
NAME	BClayton	PTam	JJaudon	FHebdon	
DATE	03/02/95	03/02/95	03/07/95	3/17/95	

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ENCLOSURE 3
ONLY

Participants agreed that the next management meeting will take place at the Watts Bar site in mid April 1995 (after the meeting, the date was set for April 12).



P.S. Peter S. Tam, Senior Project Manager
Project Directorate II-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-390

- Enclosures:
1. Participants list
 2. TVA handout
 3. Action items for the April 12, 1995 mtg.

cc w/enclosures: See next page

LIST OF PARTICIPANTS

MANAGEMENT MEETING ON WATTS BAR

NRC OFFICE, ROCKVILLE MARYLAND

February 23, 1995

Portion closed to the public (9:00 a.m. to 11:00 a.m.):

<u>Name</u>	<u>Affiliation</u>
Guy Caputo	NRC
Lawrence J. Chandler	NRC/Office of General Counsel
S. D. Ebnetter	NRC/Region II
Roger Fortuna	NRC
Frederick J. Hebdon	NRC/NRR/Project Directorate II-4
Mike R. Harding	TVA
G. Donald Hickman	TVA/OIG
Johns Jaudon	NRC/Region II
William McNulty	NRC/Office of Investigation
Mark O. Medford	TVA
Hudson B. Ragan	Consultant for TVA
Phillip L. Reynolds	TVA
William T. Russell	NRC/NRR
Ron w. Taylor	TVA/OIG
Steven A. Varga	NRC/NRR/Division of Reactor Projects I/II
John Zwolinski	NRC/NRR/Division of Reactor Projects I/II

Portion open to the public (12:00 noon to 2:30 p.m.):

<u>Name</u>	<u>Affiliation</u>
Masoud Bajestani	TVA/Watts Bar
R. Baron	TVA
W. Beecher	NRC/Public Affairs
Larry Chandler (part-time attendance)	NRC/Office of General Counsel
Ken Clark	NRC/Region II Public Affairs
Tony D'Angelo	NRC/NRR
Stu Ebnetter	NRC/Region II
Paul Fredrickson	NRC/Region II
Mike Harding	TVA
Frederick Hebdon	NRC/NRR/Project Directorate II-4
Ann Hodgdon	NRC/Office of General Counsel
Allen Howe	NRC/NRR
Roger Huston	TVA Rockville Office
Johns Jaudon	NRC/Region II
Caudle Julian	NRC/Region II

ENCLOSURE 1

D. Kehoe	TVA
Stacey Keisling	General Accounting Office
Oliver D. Kingsley	TVA Nuclear
Barbara Martocci	TVA Public Affairs
Mark O. Medford	TVA
Candace Miller	Stone & Miller
Paul Narbut	NRC/NRR
Dwight Nunn	TVA
Paul Pace	TVA/Watts Bar Site Licensing
Mark Peranich	NRC/Region II
Malcolm Philips	Winston & Strom (TVA attorney)
R. Purcell	TVA
P. Reynolds	TVA
William T. Russell	NRC/NRR
John Scalice	TVA/Watts Bar Site VP
Bruce Schofield	TVA/Watts Bar Site Licensing
Morris Schrom	ConEd
Peter Tam	NRC/NRR/Project Directorate II-4
Mohan Thadani	NRC/NRR/Project Directorate II-4
Glenn Tracy	NRC/Office of the Executive Director
P. Kim Van Doorn	NRC/Senior Resident Inspector at Watts Bar
Glenn Walton	NRC/Senior Resident Inspector at Watts Bar
J. Yates	TVA
O. Zeringue	TVA

NRC/TVA
MANAGEMENT MEETING

FEBRUARY 23, 1995

Enclosure 2

AGENDA

FEBRUARY 23, 1995

- | | |
|---|--------------|
| I. INTRODUCTION | O. ZERINGUE |
| II. INDEPENDENT ENGINEERING AND FIELD
ASSESSMENT - CORRECTIVE ACTION/
OPEN ITEM LOOK BACK | D. NUNN |
| III. REASONABLE ASSURANCE ASSESSMENT REPORT | M. MEDFORD |
| IV. OPERATIONAL READINESS | J. SCALICE |
| V. HOT FUNCTIONAL TESTING - 2 | R. PURCELL |
| VI. PROJECT LICENSING SCHEDULE | B. SCHOFIELD |
| VII. QUALITY ASSURANCE | D. KEHOE |
| VIII. SCHEDULE PERFORMANCE | O. ZERINGUE |

I. INTRODUCTION

O. ZERINGUE

II. INDEPENDENT ENGINEERING AND FIELD ASSESSMENT
AND CORRECTIVE ACTION/OPEN ITEM LOOK BACK

D. NUNN

INDEPENDENT ENGINEERING AND FIELD ASSESSMENT
AND CORRECTIVE ACTION/OPEN ITEM LOOK BACK

- PREVIOUS MEETINGS AND TVA'S NOVEMBER 14, 1994 LETTER DISCUSSED TVA'S PLANS TO VALIDATE CAUSES OF EIGHT CONSTRUCTION ISSUES

- AS DESCRIBED IN TVA'S LETTER DATED NOVEMBER 14, 1994, THE PRIMARY CAUSES IDENTIFIED WERE:
 - MANAGEMENT'S FAILURE TO PROVIDE A MORE BALANCED ALLOCATION OF MANAGEMENT'S ATTENTION AND RESOURCES
 - MANAGEMENT'S FAILURE TO CONSISTENTLY ESTABLISH EXPECTATIONS AND HOLD PERSONNEL INDIVIDUALLY ACCOUNTABLE FOR THEIR WORK

- THE CORRECTIVE ACTIONS TO ADDRESS THESE CAUSES WERE:
 - SENIOR MANAGEMENT OVERSIGHT/FOCUS BALANCED TO ADDRESS BOTH CONSTRUCTION AND STARTUP PRIORITIES
 - RESOURCE ENHANCEMENTS
 - REINFORCE MANAGEMENT EXPECTATIONS CONCERNING LINE ACCOUNTABILITY
 - SINGLE POINT ACCOUNTABILITY

- TO VALIDATE TVA'S CAUSE ANALYSIS, THE FOLLOWING REVIEWS WERE PERFORMED:
 - LINE LOOK BACK AT CAQs AND OPEN ITEMS
 - QA ASSESSMENT OF LINE LOOK BACK
 - INDEPENDENT ENGINEERING AND FIELD ASSESSMENT

RESULTS

- THE INDEPENDENT ENGINEERING AND FIELD ASSESSMENT AND CORRECTIVE ACTION/OPEN ITEM RELOOK HAVE BEEN COMPLETED AND DOCUMENTED IN TVA LETTER DATED FEBRUARY 21, 1995.

- AS INDICATED IN THAT LETTER, TVA HAS CONCLUDED:
 - CAUSES WERE UNDERSTOOD
 - CORRECTIVE ACTIONS ARE BEING EFFECTIVE

- VALIDATION REVIEWS HAVE CONFIRMED TVA'S RESOLUTION OF THE PROBLEMS

- CLOSURE REVIEW
 - NO WIDE SPREAD PROBLEM IN CLOSURE VERIFICATION
 - NO ADDITIONAL CAUSES OR CORRECTIVE ACTIONS IDENTIFIED
 - LINE ACCOUNTABILITY IMPROVING
 - NUCLEAR ASSURANCE BETTER POSITIONED TO DETECT SIMILAR COMPLETION PROBLEMS

- INDEPENDENT ENGINEERING AND FIELD ASSESSMENT
 - VALIDATED CAUSES AND CORRECTIVE ACTIONS
 - REASONABLE ASSURANCE SELECTED REVIEW SYSTEM (RHR) WILL PERFORM SAFETY FUNCTION
 - ROOM AREA WORK SEQUENCE NOT OPTIMUM, CREATING SOME REWORK
 - CALCULATIONS - "ACCEPTABLE" TO "HIGH" QUALITY
 - ENGINEERING AND DESIGN DOCUMENTS GENERALLY COMPLETE AND ADEQUATE
 - GOOD AGREEMENT BETWEEN DESIGN SPECIFICATIONS AND IMPLEMENTING PROCEDURES

III. REASONABLE ASSURANCE ASSESSMENT REPORT

M. MEDFORD

REASONABLE ASSURANCE ASSESSMENT REPORT

- COMPILE AND ASSESS THE BASES FOR REASONABLE ASSURANCE IN ONE DOCUMENT

- ASSESSMENT COMPILED BY TEAM
 - R. BARON RESPONSIBLE MANAGER
 - BOTH OUTSIDE AND INSIDE TVA MEMBERS (NO DIRECT LINE RESPONSIBILITY)

- OVERSIGHT BY SENIOR MANAGER OUTSIDE TVA

- REVIEW AND ACCEPTANCE BY SENIOR TVA MANAGEMENT
 - ONE OF THE BASES FOR CERTIFICATION
 - DECIDE IF ADDITIONAL REVIEWS NEEDED

PRELIMINARY APPROACH TO REPORT

- **THREE LEVELS OF REVIEW**

- **REGULATORY APPROACH:**
START WITH VOLUME 4 AND TRACK COMMITMENTS TO CLOSURE, INCLUDING RECENT PROBLEMS (I.E., RECENT CONSTRUCTION ISSUES)
- **ACTIVITY APPROACH:**
ASSESS INDIVIDUALLY CRITICAL ACTIVITIES NEEDED FOR PLANT READINESS:
 - DESIGN/ENGINEERING
 - CONSTRUCTION
 - STARTUP TESTING
 - OPERATIONAL READINESS
 - QUALITY OVERSIGHT
- **SPECIAL PROBLEMS APPROACH:**
ASSESS SPECIFIC AREAS OF IMPORTANCE
(E.G., EMPLOYEE CONCERNS, CORRECTIVE ACTION PROGRAM)

PRELIMINARY LISTING OF ACTIVITIES SUPPORTING FUEL LOAD CERTIFICATION

- Assessment of Site Regulatory Compliance
- ANSI Matrix Development
- Gilbert Design Control Survey
- CAPs/SP Assessment
- QE In-line Reviews
- SPAE Oversight
- PAC/AQ Activities
- ANI Oversight
- Westec EQ Evaluation
- Independent Design Inspection
- ASME Audits
- NUREG 1232 Vol. 1 & 4
- Observation of Construction/Modification Activities
- SWEC QC Inspections
- Completion Validation
- TVA QC Oversight of SWEC QC
- S & L Vertical Slice
- NRC Inspections

- CATD Closure Verification
- IG Assessments
- NUREG 1232 Vol. 1 & 4 Completion Validation
- Employee Concerns Special Program
- Construction Restart Historical Assessment

- JTG Oversight of Testing Procedures
- Oversight of Startup & Test
- IST Oversight
- HFT 2 Oversight
- PAC/AQ Oversight
- NRC Inspections

6

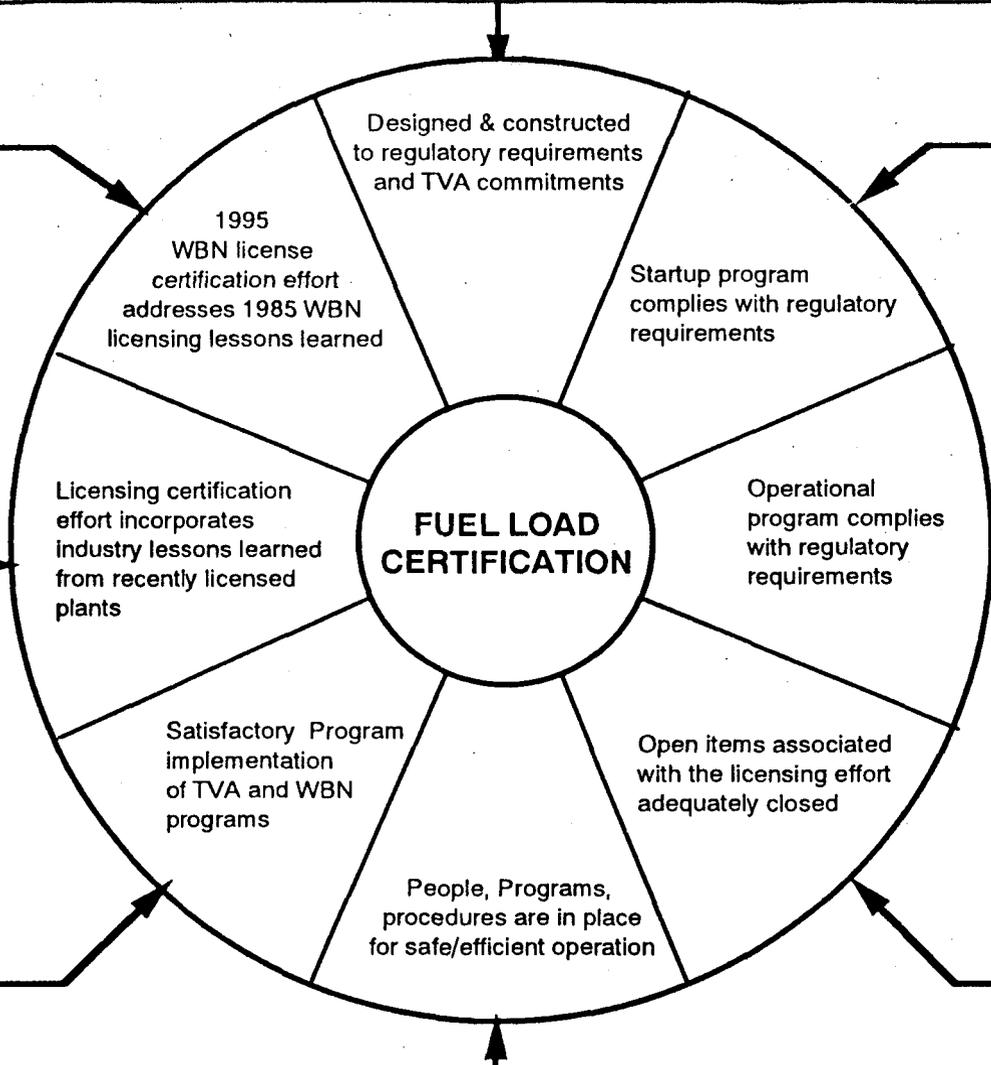
- Current Fuel Load Certification Plan
- Review Plant Licensing efforts to Incorporate Lessons Learned (10 years)
- NRC Inspection
- INPO evaluation

- FSAR Certification
- Tech Spec Certification
- QA Operational Audits/Assessments
- ORP Oversight
- Oversight of Completion Walkdowns
- SPOC Oversight
- QE In-line Reviews
- TRG Reviews
- PORC Reviews
- Independent Design Inspection (OPS)
- INPO Plant Evaluations
- NSRB Oversight
- ORR Oversight
- PAC/AQ Oversight
- Special Operational Assessment
- NRC Inspections

- QA Assessments
- ORR follow-up
- NSRB Oversight
- PAC/AQ Oversight
- NRC Inspections

- Line Reverification of closed CAQs
- Review/Verification of NRC Open Items
- Performance Indicator Trend Reports
- Review of MTS - Open Item Impact
- PAC/AQ Lookback of CATDs

- ORP Oversight by QA and PAC/AQ
- Organizational Self-assessments
- NRC Inspections
- NUS Review
- ORR Reviews



SCHEDULE

- DEPENDENT UPON PROGRESS TOWARD COMPLETION, PARTICULARLY OPERATIONAL ACTIVITIES
- TO BE COMPLETED APPROXIMATELY 6 WEEKS BEFORE FUEL LOAD
- WILL KEEP STAFF INFORMED OF PROGRESS

IV. OPERATIONAL READINESS

J. SCALICE

OPERATIONAL READINESS

- SITE PROCEDURES (APPROVED OR FINAL REVIEW)
 - 292 OF 438 OPERATIONS PROCEDURES
 - (PROCEDURES BEING COMPLETED AT SPOC TURNOVER)
 - 1119 OF 1326 TECHNICAL SUPPORT/MAINTENANCE PROCEDURES
 - CHEMISTRY PROCEDURES - COMPLETE
 - RADCON PROCEDURES - COMPLETE

- SELF ASSESSMENTS - 90 OF 100 COMPLETE

- STAFFING AND TRAINING OF PLANT PERSONNEL MAKING PROGRESS
 - CONTINUING TO EVALUATE PERSONNEL PERFORMANCE AND ADHERENCE TO EXPECTATIONS

- PLANT WILL BE READY TO SUPPORT HFT-2
 - (SEE HFT-2 DISCUSSION)

WBN Department Readiness Summary

	A. Ops Readiness Programs (1)	B. Procedures To Go Cmpl Pln	C. Org Chart & Staffing	D. Technical Training & Qual (2)	E. Prog/ Process Training	F. Dept Expectations for Conduct	G. Perf. & Backlog Indicators	H. Personnel Perf TEAM (4)	I. SQN Lessons Lrnd (Comp./Total)	J. Open TROI Actions (Late/Total)	K. Mgt Review & Approval
	(R. Tolley)	(P. Freeman)	(J. Wallace)	(B. Thompson)	(R. Tolley)	(D. Keuter)	(M. Skaggs)	(E. McNair)	(E. McNair)	(R. Tolley)	(D. Keuter)
1 Ops & Fire Mende (Davis/Harris)	4/3/3 8	253 SPOC II	Complete 97%	100% / 100%	61% 2/28/95	Complete	Draft	#3 - 2/28/95 #4 - 5/1/95	67/67 Complete	11/96	
2 Maintenance O'Brien (Candage)	6/5/4 6	0 Complete	Complete 86%	Craft -97%/91% Supv-100%/100%	198 3/10/95	Complete	Draft	#3 - 3/31/95 #4 - 5/1/95	N/A	1/31	
3 Pin & Tech T. McCollom	10/9/7 10	19 4/12/95	Complete 94%	Plnr - 100% Engr-100%/100%	2 2/28/95	Complete	Draft	#3 - 2/28/95 #4 - 5/1/95	70/70 Complete	0/60	
4 RADCON Cox (Hughes)	4/4/4 4	0 Complete	Complete 92%	98% / 99%	1 2/24/95	Draft	Draft	#3 - 3/15/95 #4 - 5/1/95	N/A	0/5	
5 Chem/Environ Cox (Voeller/Shanks)	7/7/5 7	0 Complete	Complete 95%	77% / 40%	29 2/28/95	Complete	Draft	#3 - 3/15/95 #4 - 5/1/95	6/6 Complete	0/7	
6 Tech Support Koehl (Frazier)	18/7/10 21	318 SPOC II	Complete 98%	100% / 96%	Complete	Complete	Draft	#3 - 2/23/95 #4 - 5/1/95	85/85 Complete	7/274	
7 Training Thompson	7/7/7 7	0 Complete	Complete 100%	100%	10 2/25/95	Complete	Draft	#3 - 2/28/95 #4 - 5/1/95	N/A	0/10	
8 Mods Carne	1/1/0 1	0 Complete	Complete 14%	N/A	Complete	Complete	Draft	#3 - 3/15/95 #4 - 5/1/95	6/6 Complete	MODS - 0/0 PCG - 13/89	
9 Site Engr Elliott (Tortora/Young)	7/6/5 7	0 Complete	Complete 70%	8% / 100% (3)	19 2/17/95	Draft	Draft	#3 - 2/28/95 #4 - 5/1/95	353/353 Complete	32/230	
10 Materials Olcsvary (Clothier)	4/4/4 4	0 Complete	Complete 13%	N/A	Complete	Complete	Complete	#3 - 2/28/95 #4 - 5/1/95	N/A	0/5	
11 Site Support Maillett (Christman)	4/4/4 4	0 Complete	Complete 97%	N/A	0 Complete	Complete	Complete	#3 - 2/28/95 #4 - 5/1/95	2/2 Complete	0/2	
12 Security Hardin (Ale)	3/3/3 4	0 Complete	Complete 95%	N/A	0 Complete	Complete	Complete	#3 - 2/28/95 #4 - 5/1/95	N/A	0/2	
13 Nuc Assurance Kehoe (Schaus)	4/na/4 6	0 Complete	Complete 90%	100% / 100%	0 Complete	Complete	Draft	#3 - 2/28/95 #4 - 5/1/95	5/5 Complete	3/124	
14 Licensing Schofield (Vorees)	1/na/1 1	0 Complete	Complete 100%	100% / 100%	1 2/28/95	Complete	Draft	#3 - 2/28/95 #4 - 5/1/95	6/6 Complete	3/30	
15 Human Resources Wallace (Roza)	5/na/5 5	0 Complete	Complete 100%	N/A	7	Complete	Complete	#3 - 2/28/95 #4 - 5/1/95	N/A	0/11	
16 Bus & Work Perf N. D. Nelson (Smith)	1/1/1 2	0 Complete	Complete 50%	N/A	25 3/3/95	Draft	Draft	#3 - 2/28/95 #4 - 5/1/95	N/A	2/18	
17 Misc. R. Gibbs	4/0/1 5	0 Complete	Complete 100%	N/A	12 2/28/95	Draft	Draft	N/A	21/21 Complete	5/27	

Summary:

90/61/68
100

600

#1 - Complete
#2 - Complete

621/621
Complete

77/1021

NOTE (1) Self-Assessed / QA Assessed / ORMRT Approved - Total Programs Noted Under

NOTE (2) Classroom Training / Qual Card Training

NOTE (3) Site Engineering will complete classroom training 4/96

NOTE (4) TEAM #3 meetings scheduled to be complete by 3/31/95

12/28/95/95/95

SPECIAL OPERATIONAL ASSESSMENTS OF READINESS

- INTEGRAL PORTION OF REASONABLE ASSURANCE ASSESSMENT DISCUSSED PREVIOUSLY

- USES SENIOR TVA MANAGERS FROM OTHER SITES AND CORPORATE TO ASSESS CRITICAL PLANT ACTIVITIES/PROGRAMS

- PLANT/PROGRAM ACTIVITIES INCLUDE:
 - OPERATIONS AND SURVEILLANCE PROCEDURES
 - WORK CONTROL AND SCHEDULING
 - TECH SPECS AND FSAR VALIDATION
 - PLANT ACTIVITIES (E.G., OPERATIONS, CHEMISTRY, RADIATION CONTROL)
 - MAINTENANCE
 - TECHNICAL PROGRAMS

- CURRENT SCHEDULE - MAJOR PORTION OF EFFORT TO BE COMPLETED BY APRIL

SPECIAL OPERATIONAL ASSESSMENT

Department Review		Reviewers
A.	Operations Procedures	Nick Welch - Ops (SQN) Bob Moll - Ops (BFN)
B.	SI Procedures	Marci Cooper TS (SQN) Greg Pierce TS (BFN)
C.	Maintenance	D. Brock (SQN) C. Crane (BFN) J. Carter (BFN)
D.	Work Control and Scheduling	J. Bailey (SQN) J. White (BFN)
E.	Radiation Control	C. Kent (SQN) J. Corey (BFN)
F.	Chemistry	R. Grover (Corp) G. Rich (SQN)
G.	Operations	G. Enterline (SQN) G. Preston (BFN)
H.	Technical Support	M. Cooper (SQN) M. Bajestani (WBN)
I.	Surveillance Program	K. Allen (SQN)
J.	Tech Programs	M. Scarzinski (SQN)
K.	Tech Spec and FSAR Validation	R. Shell (SQN) M. Bursynski (SQN)
L.	Power Ascension Test Program	G. Bair (SQN)
M.	Fire Protection	K. Zimmerman (Corp)
N.	Site Engineering Support	SQN Ops Support Mgr. J. Maddux (BFN)

V. HOT FUNCTIONAL TESTING - 2

R. PURCELL

HOT FUNCTIONAL TESTING - 2

- PROJECT PLAN PREVIOUSLY PROVIDED FOR REVIEW
- INCLUDED LIST OF SYSTEMS THAT WILL BE "OWNED" BY OPERATIONS BEFORE HFT-2
- REVIEWED DETAILED STATUS OF "NON-TURNED" SYSTEMS WITH STAFF
 - MODS COMPLETE
 - PRE-OP TESTING STATUS
 - MOST REMAINING SYSTEMS OPERATIONAL
 - PROCEDURES ISSUED
 - REMAINING ITEMS, LARGELY, HFT-2 TESTS OR MTS COMPLETION
- REVIEWED AREAS REQUIRED FOR HFT-2 WITH STAFF
 - REACTOR BUILDING COMPLETE
 - KEY ROOMS COMPLETE
 - NEEDED PORTIONS OF LARGE AREAS COMPLETE
- ACCESS CONTROL PLAN ESTABLISHED AND REVIEWED WITH STAFF
 - LOCKED ROOMS/BARRIERS/SIGNS FOR OPEN AREAS
 - ROVING PATROL TO ENFORCE
- MODIFICATIONS WORK STRICTLY CONTROLLED BY OPERATIONS
- INTEGRATION OF ASSESSMENT ACTIVITIES
 - SAME PROCESS AS USED FOR INTEGRATED TEST SEQUENCE
 - LINE MANAGEMENT PREPARE DAILY LOGS OF FINDINGS FOR PARALLEL REVIEW BY QA AND NRC
 - LIMITED NUMBER OF OBSERVERS (1 QA AND 1 NRC) IN "HORSESHOE" DURING COMPLICATED EVOLUTIONS
- HFT-2 SCHEDULED TO START WHEN DEFINED AREAS AND SYSTEMS ARE COMPLETE

POST HFT2 SPOC LIST

SYSTEM NO.	SYSTEM DESCRIPTION	MODS T/O STATUS	SPAÉ I STATUS	FLUSH, FLOW BALANCE STATUS	PREOP. TESTING STATUS FOR HFT2	CONDITION FOR HFT2	OPS PROCEDURE STATUS FOR HFT2	REMAINING ACTIVITIES
13	FIRE DETECTION	COMPLETE	COMPLETE	N/A	COMPLETE	OPERATIONAL	SOI	MTS CLEANUP
26	HIGH PRESSURE FIRE PROTECTION	COMPLETE	COMPLETE	COMPLETE	AFTER HFT2	OPERATIONAL	SOI	Hydrant Testing
30	VENTILATION	COMPLETE	COMPLETE	COMPLETE	COMPLETE	OPERATIONAL	SOI	In place filter testing
31	AIR CONDITIONING	COMPLETE	COMPLETE	COMPLETE	COMPLETE	OPERATIONAL	SOI	MTS CLEANUP
40	STATION DRAINAGE	COMPLETE	COMPLETE	COMPLETE	N/A (PREOP W/SYSTEM 77)	OPERATIONAL	SOI	PREOP with system 77
52	SYSTEM TEST FACILITY	COMPLETE	COMPLETE	COMPLETE	DURING HFT2	OPERATIONAL	N/A	Resolve TDN during HFT2
61	ICE CONDENSER	COMPLETE	COMPLETE	COMPLETE	COMPLETE	OPERATIONAL	SOI	MTS CLEANUP
65	EMERGENCY GAS TREATMENT	COMPLETE	COMPLETE	COMPLETE	COMPLETE	OPERATIONAL	SOI	In place filter testing
77	WASTE DISPOSAL (LIQUID)	COMPLETE	COMPLETE	COMPLETE	COMPLETE	OPERATIONAL	SOI	MTS CLEANUP
77	WASTE DISPOSAL (GAS)	COMPLETE	COMPLETE	COMPLETE	AFTER HFT2	Some TMOD'S may be needed	SOI	Complete PREOP testing after HFT2
78	SPENT FUEL PIT COOLING	COMPLETE	COMPLETE	PURIFICATION LOOP ONLY	Purification section component test complete	Purification portion of system operational to support RCS boration	SOI	Spent Fuel Pit testing to be completed after HFT2
90	RADIATION MONITORING	COMPLETE	COMPLETE	ON GOING	AFTER HFT2	Test Blowdown Flash Tank Monitor during HFT2	SOI	Complete PREOP testing after HFT2
228	AUXILIARY BUILDING LIGHTING	COMPLETE	COMPLETE	N/A	COMPLETE	OPERATIONAL	SOI	MTS CLEANUP
233B	YARD LIGHTING (INSIDE PROTECTED AREA)	COMPLETE	AFTER START OF HFT2	N/A	AFTER HFT2	OPERATIONAL	N/A	Lighting Surveys of areas that had tempory buildings installed inside the protected area.

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POST HFT2 SPOC LIST

SYSTEM NO.	SYSTEM DESCRIPTION	MODS T/O STATUS	SPAE I STATUS	FLUSH, FLOW BALANCE STATUS	PREOP. TESTING STATUS FOR HFT2	CONDITION FOR HFT2	OPS PROCEDURE STATUS FOR HFT2	REMAINING ACTIVITIES
248	ELECTRICAL CONTROL AND RECORDING INSTRUMENTS	COMPLETE	COMPLETE	N/A	N/A	OPERATIONAL	N/A	MTS CLEANUP
252	CODE CALL, PAGING, INTERCOM, AND EVACUATION ALARM	COMPLETE	COMPLETE	N/A	COMPLETE	OPERATIONAL	SOI	MTS CLEANUP
256	SOUND POWERED SHUTDOWN COMMUNICATIONS	COMPLETE	COMPLETE	N/A	COMPLETE	OPERATIONAL	SOI	MTS CLEANUP
261	PROCESS COMPUTER	COMPLETE	COMPLETE	N/A	AFTER HFT2	OPERATIONAL	N/A	MTS CLEANUP
263	STATION MONITOR COMPUTER INPUTS	COMPLETE	COMPLETE	N/A	N/A	OPERATIONAL	N/A	Complete PREOP testing after HFT2
264	TECHNICAL SUPPORT CENTER COMPUTER	COMPLETE	COMPLETE	N/A	COMPLETE	OPERATIONAL	N/A	MTS CLEANUP
270	TURBINE BLDG CRANES AND MISC.	COMPLETE	COMPLETE	N/A	AFTER HFT2	OPERATIONAL	N/A	Complete PREOP testing after HFT2
271	CONT. AND AUX. BLDG CRANES	COMPLETE	COMPLETE	N/A	AFTER HFT2	OPERATIONAL	N/A	Complete PREOP testing after HFT2

Definitions:

OPERATIONAL The system is in its final configuration to support normal operating temperatures and pressures. Outstanding activities include such items as MTS CLEANUP, SPOC sign off and limited component testing (i.e., filter testing). These items will not impact the ability to support HFT2.

MTS Cleanup Clear items on MTS that do not affect the operation of the system.

NOTE : This list of systems is based on current plant completion schedules. Changes in the area turnover schedule to support HFT2 could impact the HFT2 start date. Because of this, some of the above listed systems may actually turnover PRIOR to HFT2.

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VI. PROJECT LICENSING SCHEDULE

B. SCHOFIELD

PROJECT LICENSING SCHEDULE

- COMPARED BROWNS FERRY UNIT 3 AND WATTS BAR UNIT 1 LICENSING SCHEDULES
- SCHEDULE SHOWS MINIMAL OVERLAP OF LARGE ACTIVITIES
- DISCUSSED RESULTS WITH STAFF

LICENSING STATUS

- OPEN ITEM CLOSURE
 - 235 ITEMS CURRENTLY OPEN
 - CURRENT CLOSURE PROCESS PRODUCING QUALITY PACKAGES
 - STATUS PACKAGES WITH A PUNCHLIST FOR LONG-TERM ITEMS TO FACILITATE FINAL REVIEW
 - TARGETED 24 ITEMS FOR FEBRUARY - 13 ITEMS TO DATE

- SUBMITTALS
 - TARGETED - 5 SUBMITTALS
 - ACTUAL - 12 SUBMITTALS (7 AHEAD OF SCHEDULE)

- FSAR FINALIZATION
 - NO OUTSTANDING RAIs ON FSAR
 - FSAR CERTIFICATION PROCESS ~ 50% COMPLETE
 - AMENDMENT 89 PLANNED FOR MARCH 31, 1995

- TECHNICAL SPECIFICATIONS
 - TVA/NRC AGREEMENT ON PROOF AND REVIEW
 - 1 RAI OUTSTANDING
 - RESPOND IN APRIL

- SUPPLEMENTAL FINAL ENVIRONMENTAL STATEMENT
 - TVA PROVIDED COMMENTS 2/8/95
 - COMMENT PERIOD ENDED 2/14/95
 - NRC LETTER - 2/14/95 - 7 QUESTIONS

VII. QUALITY ASSURANCE

D. KEHOE

QUALITY ASSURANCE

- WBN QA PROGRAM IS IDENTIFYING PROBLEMS THAT REQUIRE RESOLUTION
 - CONDUIT SEPARATION WALKDOWNS
 - ATWS
 - ELECTRICAL ISSUES - CABLE DAMAGE

- SENIOR LINE MANAGEMENT AGGRESSIVE RESPONSE TO RECENT ISSUES
 - CONDUIT/SEPARATION
 - STAINLESS/CARBON STEEL TOOL SEGREGATION

- IMPROVEMENT REQUIRED IN DEVELOPMENT OF RECURRENCE CONTROLS
 - SOME PAST RECURRENCE CONTROLS WEAK
 - INITIAL RESPONSE TO NUCLEAR ASSURANCE FOR RECENT ISSUE CONTAINED WEAK RECURRENCE CONTROLS
 - NUCLEAR ASSURANCE DEMANDED EFFECTIVE ROOT CAUSE LEADING TO GOOD RECURRENCE CONTROLS
 - WORK NOT RELEASED BY NUCLEAR ASSURANCE UNTIL RECURRENCE CONTROLS WERE ACCEPTABLE AND IMPLEMENTED

- CORRECTIVE/RECURRENCE ACTIONS IMPLEMENTED EFFECTIVELY AND QUICKLY

QUALITY ASSURANCE
(CONTINUED)

- PERFORMANCE INDICATORS ARE IMPROVED. STRIVING FOR SUSTAINED PERFORMANCE

-	CAQ CLOSURE ACCEPTANCE	83%
-	CONSTRUCTION QC ACCEPTANCE	98%
-	MAINTENANCE QC ACCEPTANCE	97%
-	RECEIPT INSPECTION ACCEPTANCE	100%
-	WORK ORDER INITIATION ACCEPTANCE	99%
-	WORK ORDER CLOSURE ACCEPTANCE	99%
-	WORK PLAN INITIATION ACCEPTANCE	100%
-	WORK PLAN CLOSURE ACCEPTANCE	80%

- ASME AUDIT OF WBN COMPLETED - NO ISSUES OR CONCERNS
- NSRB CONCERN (A-25) REGARDING NUCLEAR ASSURANCE OVERSIGHT READINESS RESOLVED

QA PROGRAM CONCLUSIONS

- WBN QA PROGRAM EFFECTIVENESS IS IMPROVING - SELF IDENTIFICATION WORKING
- LINE MANAGEMENT OWNERSHIP FOR QUALITY IS MORE EVIDENT
- SOME ELEMENTS OF MIDDLE TO LOWER LINE MANAGEMENT STILL REQUIRE IMPROVEMENT
- OTHER QUALITY PERFORMANCE INDICATORS SHOW IMPROVEMENT

VIII. SCHEDULE PERFORMANCE

O. ZERINGUE

WBN SCHEDULE PERFORMANCE

- **STEADY PROGRESS TO FUEL LOAD**
- **JANUARY THROUGH FEBRUARY 19 RESULTS:**
 - **COMPLETED 2983 OF 3707 PLANNED SYSTEM COMPLETION WORK ORDERS**
 - **COMPLETED 301 OF 346 PLANNED DESIGN CHANGE CLOSURES**
 - **COMPLETED 6 OF 13 PLANNED PREOPERATIONAL TESTS**
 - **COMPLETED 21 OF 34 PLANNED STARTUP SYSTEM COMPLETIONS**
 - **COMPLETED 22 OF 30 PLANNED PLANT SYSTEM ACCEPTANCES**
 - **OTHER WORK - INSULATION, PAINTING, ETC., SCHEDULES GENERALLY MET REQUIREMENTS**
- **SYSTEM COMPLETIONS (SPOC):**
 - **HFT-2 - 82 OF 114**
 - **TOTAL - 82 OF 135**
- **AREA COMPLETIONS:**
 - **HFT-2 - 23 OF 69**
 - **FUEL LOAD - 39 OF 253**
- **PROJECTED FUEL LOAD: JULY - 70% PROBABILITY**
SEPTEMBER - 90% PROBABILITY
- **SCHEDULE CHALLENGES:**
 - **EMERGENT WORK**
 - **AREA COMPLETIONS:**
 - **TRAY AND CONDUIT WALKDOWNS**
 - **THERMO-LAG INSTALLATION**
 - **SUCCESSFUL COMPLETION OF HFT-2**

ACTION ITEMS FOR THE
APRIL 12, 1995 NRC/TVA MANAGEMENT MEETING

TVA is doing Technical Specification surveillances as systems are turned over. During the February 23, 1995 management meeting, TVA indicated that 1119 of 1326 procedures are complete. This does not appear to be consistent with the fact that many systems covered by the Technical Specifications have not yet been turned over. TVA should discuss the status of Technical Specification surveillance for turned over systems, including a discussion of verification and validation process, and operability.

The TVA Master Tracking System currently includes about 16,000 open items. TVA should discuss the characteristics (e.g., "bins") of this population, and the approximate number that are expected to remain open at fuel load.

The attribute list for the Technical Review Team walkdowns did not have much detail, and relied on the skill and experience of the personnel doing the walkdowns. However, TVA continues to have problems with people recognizing deficiencies (e.g., ring cuts, cables suspended by tie wraps). TVA should discuss the significance of the findings from the Technical Review Team field assessments, considering the limited detail in the list of walkdown attributes.

TVA indicated that they had completed almost all of the "self assessments". TVA should discuss the results of these self assessments. The discussion should include line and QA findings; and should include the current performance indicators, the generic implications, and any corrective actions that have been identified as a result of the assessments.

ENCLOSURE 3

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WATTS BAR NUCLEAR PLANT

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