

*Official copy*

September 14, 1995

Tennessee Valley Authority  
ATTN: Mr. Oliver D. Kingsley, Jr.  
President, TVA Nuclear and  
Chief Nuclear Officer  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: MEETING SUMMARY - WATTS BAR - TO DISCUSS PLANT STATUS  
AND ASSOCIATED ON-GOING ACTIVITIES

Dear Mr. Kingsley:

This letter refers to the management meeting conducted at our request at the Watts Bar site on September 6, 1995. The purpose of the meeting was to discuss with TVA the Watts Bar plant status and associated on-going activities.

It is our opinion that this meeting was beneficial and provided a better understanding of TVA's activities associated with the Watts Bar facility.

In accordance with Section 2.790 of the NRCs' "Rules of Practice" Part 2, Title 10 Code of Federal Regulations, a copy of this letter and its enclosures will be placed in the Public Document Room.

Should you have any questions concerning this letter, please contact me.

Sincerely,

(Original signed by J. P. Jaudon)

Johns P. Jaudon, Deputy Director  
TVA Construction  
Division of Reactor Projects

Docket Nos. 50-390, 50-391  
Construction Permit Nos.  
CPPR-91, CPPR-92

Enclosures: 1. List of Attendees  
2. Presentation Summary

cc w/encls: (See page 2)

9509280181 950914  
PDR ADOCK 05000390  
A PDR

250062

TELE

TVA

2

cc w/encl:

Mr. O. J. Zeringue  
Senior Vice President  
Nuclear Operations  
Tennessee Valley Authority  
3B Lookout PL  
1101 Market ST  
Chattanooga, TN 37402-2801

Dr. Mark O. Medford, Vice Pres.  
Engineering & Technical Services  
Tennessee Valley Authority  
3B Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. D. E. Nunn, Vice Pres.  
New Plant Completion  
Tennessee Valley Authority  
3B Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. J. A. Scalice, Site Vice Pres.  
Watts Bar Nuclear Plant  
Tennessee Valley Authority  
P. O. Box 2000  
Spring City, TN 37381

General Counsel  
Tennessee Valley Authority  
ET 11H  
400 West Summit Hill Drive  
Knoxville, TN 37902

Mr. P. P. Carrier, Manager  
Corporate Licensing  
4G Blue Ridge  
1101 Market Street  
Chattanooga, TN 37402-2801

Ms. Beth Zilbert, Energy  
Campaigner  
Greenpeace  
20 13th Street, NE  
Atlanta, GA 30309

Mr. Bruce S. Schofield  
Site Licensing Manager  
Watts Bar Nuclear Plant  
Tennessee Valley Authority  
P. O. Box 2000  
Spring City, TN 37381

TVA Representative  
Tennessee Valley Authority  
11921 Rockville Pike  
Suite 402  
Rockville, MD 20852

The Honorable Robert Aikman  
County Executive  
Rhea County Courthouse  
Dayton, TN 37381

The Honorable Garland Lanksford  
County Executive  
Meigs County Courthouse  
Decatur, TN 37322

Mr. M. H. Mobley, Director  
Division of Radiological Health  
3rd Floor, L and C Annex  
401 Church Street  
Nashville, TN 37243-1532

Danielle Droitsch  
Energy Project  
The Foundation for Global  
Sustainability  
P. O. Box 1101  
Knoxville, TN 37901

Ms. Ann Harris  
305 Pickel Road  
Ten Mile, TN 37880

Mr. James P. Riccio  
Public Citizen  
4340 Georgetown Square, #612  
Atlanta, GA 30338

Distribution w/encls: (See page 3)

Distribution w/encls:

S. D. Ebnetter, ORA/RII  
 E. W. Merschoff, DRP/RII  
 A. F. Gibson, DRS/RII  
 B. S. Mallett, DRSS/RII  
 F. J. Hebdon, NRR  
 A. P. Hodgdon, OGC  
 B. K. Keeling, GPA/CA  
 G. M. Tracy, OEDO  
 P. S. Tam, NRR  
 G. A. Hallstrom, RII  
 NRC Document Control Desk

U.S. Nuclear Regulatory Commission  
 Watts Bar Nuclear Plant  
 1260 Nuclear Plant Road  
 Spring City, TN 37381

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NAME	PTaylor:vgv	PFredrickson	CJulian		
DATE	09 / 14 / 95	09 / 16 / 95	09 / 21 / 95	09 / / 95	09 / / 95
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## LIST OF ATTENDEES

<u>Name</u>	<u>Title</u>
<u>NRC Staff</u>	
W. Russell	Director, Office of Nuclear Reactor Regulation (NRR)
S. Ebnetter	Regional Administrator, Region II (RII)
F. Hebdon	Director, Project Directorate II-4, NRR
G. Tracy	Senior Regional Coordinator, Office of the Executive Director of Operations
M. Thadani	Senior Project Manager, NRR
J. Jaudon	Deputy Director, Division of Reactor Projects (DRP), RII
P. Tam	Senior Project Manager, Project Directorate II-3, NRR
T. Foley	Senior Inspector, NRR
C. Julian	Chief, TVA Startup/Operations Branch, DRP, RII
P. Fredrickson	Chief, TVA Construction Branch, DRP, RII
P. Vandoorn	Senior Resident Inspector, Operations, DRP, RII
G. Walton	Senior Resident Inspector, Construction, DRP, RII
M. Peranich	Senior Project Manager, DRP, RII
J. Lara	Resident Inspector, Construction, DRP, RII
S. Cahill	Resident Inspector, Operations, DRP, RII
R. Hannah	Public Affairs Officer, RII

### TVA Staff

O. Kingsley	President and Chief Nuclear Officer
M. Medford	Vice President, Engineering Technical Services
O. Zeringue	Senior Vice President, Nuclear Operations
J. Scalice	Vice President, Watts Bar Site
R. Purcell	Plant Manager
R. Beecken	Manager, Maintenance and Modifications
R. Baron	Acting Manager, Site Nuclear Assurance and Licensing
B. Schofield	Manager, Site Licensing
D. Kehoe	Manager, Site Quality
P. Pace	Manager, Compliance Licensing
R. Mende	Manager, Operations
D. Koehl	Manager, Technical Support
J. Rupert	Chief Engineer, Engineering & Materials
M. Bajestani	Manager, Startup and Test Program
W. Elliott	Manager, Engineering
J. Symonds	Manager, Construction Completion
D. Malone	Manager, Audits & Assessments, Nuclear Assurance
J. Vorees	Manager, Licensing/Regulations
L. Gibb	Secretary, Licensing

TVA Staff: (Continued on next page)

TVA STAFF: (Continued)

D. Hatfield	Steward, Laborers, Plant Services
J. Yates	Milestone Coordinator, Hot Functional Test 2
R. Huston	Manager, Rockville Office
R. Hardin	Manager, Site Security
R. Reynolds	Shift Supervisor, Site Support
R. Stockton	Engineer, Licensing
T. Tohill	Manager, Public Relations
K. Whittenburg	Public Relations
D. Skinner	Auxiliary Unit Operator, Operations
P. McGinnis	Shift Operations Supervisor, Operations
J. Carne	Manager, Area Completion
W. Thompson	Manager, Training
P. Olson	Engineer, Startup and Test Group
W. Gillen	Manager, QA Projects
B. Hamblin	Instructor, Site Security
S. Hedrick	Senior Instrument Mechanic, Maintenance

OTHERS

J. Lyons	News Writer, Monroe County
R. Higgins	Reporter, Chattanooga Time
L. Vinsant	Public Citizen
Mr/Mrs Janeway	Public Citizens
T. Nelson	WAY FM Radio, Dayton, TN
S. Smith	Public Citizen
H. Miller	Chattanooga Free Press

***NRC/TVA***  
***MANAGEMENT MEETING***

***September 6, 1995***

NRC/TVA MANAGEMENT MEETING  
AGENDA

September 6, 1995

- |   |              |
|---|--------------|
| I. INTRODUCTION                         | J. SCALICE   |
| II. OPERATIONAL READINESS/HFT-2 RESULTS | R. PURCELL   |
| - OPERATIONS                            | R. MENDE     |
| - TESTING                               | D. KOEHL     |
| III. CONSTRUCTION COMPLETION            | J. SCALICE   |
| IV. LICENSING STATUS                    | B. SCHOFIELD |
| V. NUCLEAR ASSURANCE                    | D. KEHOE     |
| VI. REASONABLE ASSURANCE                | R. BARON     |
| VII. CLOSING                            | J. SCALICE   |

I. INTRODUCTION

J. SCALICE

## II. OPERATIONAL READINESS

R. PURCELL

## OPERATIONAL READINESS PROGRAM (ORP)

- SITE INTEGRATED ORP EFFORT BEGAN DECEMBER 1993
  - PROGRAM FOCUSED ON PEOPLE, PROGRAMS, AND PROCEDURES REQUIRED FOR PLANT OPERATIONS
  - USED CRITERIA FROM INPO GUIDES, NRC CRITERIA, AND TVA LESSONS LEARNED
  - ASSESSED INDIVIDUAL PROGRAM PERFORMANCE, AND INTEGRATED PLANT PERFORMANCE DURING HFT-1, ITS, AND HFT-2
- PROGRAM AUGMENTED IN JUNE 1994 EMPHASIZING DEPARTMENTAL READINESS VERIFICATION
  - IDENTIFIED ATTRIBUTES FOR DEPARTMENTAL READINESS
  - CAPTURED RECENT SQN LESSONS LEARNED
- ORP OVERSIGHT BY:
  - OPERATIONAL READINESS PHASE I AND II REVIEW TEAM
  - PROGRAM FOR ASSURANCE OF COMPLETION AND ASSURANCE OF QUALITY (PAC/AQ)
  - TVA PEER REVIEW TEAM
  - PEER NUCLEAR UTILITY REVIEW TEAM
  - INSTITUTE OF NUCLEAR POWER OPERATIONS (INPO)
  - NRC OPERATIONAL READINESS ASSESSMENT TEAM (ORAT)

## OPERATIONAL READINESS PROGRAM (ORP)

- THE ORP REVIEW OF PROGRAMS REQUIRED FOR PLANT OPERATION IS COMPLETE AND HAS CONCLUDED THAT:
  - SITE PROGRAMS ARE READY TO SUPPORT AN OPERATING UNIT
  - ORGANIZATION STRUCTURE HAS BEEN DEVELOPED AND IN PLACE
  - STAFFING IS COMPLETE TO SUPPORT OPERATIONS
  - TECHNICAL AND PROGRAM/PROCESS TRAINING IS COMPLETE
  - SQN LESSONS LEARNED HAVE BEEN INCORPORATED INTO WBN PROGRAMS
  
- HFT-2 OBSERVATIONS
  - SEVERAL LAYERS OF ASSESSMENT AND OBSERVATION OF PERFORMANCE DURING HFT-2
    - LINE MANAGEMENT OBSERVATION
    - ORP SELF-ASSESSMENT TEAM
    - INDEPENDENT QA ASSESSMENT ACTIVITY
    - NRC RESIDENTS/REGION II
    - ORAT

## OPERATIONAL READINESS PROGRAM (ORP)

### - SYSTEM ENGINEERS

- OBJECTIVES

1. DEMONSTRATE OWNERSHIP OF SYSTEMS
2. MAINTAIN INVOLVEMENT IN SYSTEM TESTING
3. TIMELY RESOLUTION OF PROBLEMS
4. PROPER COMMUNICATION WITH OPERATIONS

- RESULTS

1. SYSTEM ENGINEERS WELL PREPARED FOR THESE TEST ACTIVITIES
2. PERFORMED IN A LEADERSHIP ROLE
3. RESPONSIVE TO OPERATOR NEEDS AND PROBLEM RESOLUTION
4. FOCUSED ON QUALITY AND SAFETY

### - CONDUCT OF TEST

- OBJECTIVES

1. PROPERLY PREPARE TEST BRIEFINGS PER SSP-8.01
2. PROPER TEST CONDUCT
3. PROPER COMMUNICATION AND LOG KEEPING

- RESULTS

1. TEST DIRECTORS AND PROCEDURES WELL PREPARED
2. GOOD CONTROL OF RHR PUMP TESTING, WHICH WAS HANDLED AS A COMPLEX INFREQUENTLY PERFORMED TEST OR EVOLUTION (CIPTÉ)
3. BRIEFINGS WERE DETAILED AND COVERED REQUIRED TOPICS INCLUDING QUALITY, SAFETY, PRECAUTIONS, AND CONTINGENCIES.
4. TEST CONDUCT WAS PER THE PROCEDURE
5. LOG KEEPING WAS GOOD
6. CONSERVATIVE APPROACH TO TESTING
7. GOOD PERSONNEL KNOWLEDGE

## OPERATIONAL READINESS PROGRAM (ORP)

### - CONDUCT OF MAINTENANCE

- OBJECTIVES

1. QUALITY WORKMANSHIP IN THE FIELD
2. ADEQUATE SUPERVISION OVERSIGHT
3. PROPER COORDINATION WITH OTHER WORK GROUPS
4. PROPER PLANNING OF MAINTENANCE WORK PACKAGES

- RESULTS

1. HIGH QUALITY IN FIELD WORKMANSHIP
2. SUPERVISION INVOLVED IN FIELD ACTIVITIES
3. PREJOB BRIEFINGS WERE THOROUGH AND COMPLETE
4. WORK COORDINATION IMPROVED AS HFT-2 PROGRESSED
5. CONSERVATIVE APPROACH TO MAINTENANCE

### - CONDUCT OF CHEMISTRY

- OBJECTIVES

1. SAFE AND EFFECTIVE CHEMISTRY WORK PRACTICES
2. PROPER PROCEDURAL CONTROL AND DOCUMENTATION
3. CHEMISTRY PARAMETERS PROPERLY MONITORED AND CONTROLLED
4. PROPER ANTICIPATION OF PLANT EVOLUTIONS TO MAINTAIN PARAMETERS WITHIN SPECIFICATIONS

- RESULTS

1. WORK PRACTICES WERE SAFE AND IN ACCORDANCE WITH PROCEDURES
2. PLANT EVOLUTIONS WERE WELL ANTICIPATED AND SYSTEM CHEMISTRY WAS PREPARED AHEAD OF TIME TO SUPPORT PLANT EVOLUTIONS
3. MONITORING AND REPORTING WAS TIMELY AND COMMUNICATED TO OPERATIONS

HFT-2 - RESULTS  
OPERATIONS/SURVEILLANCE GOALS

- DEMONSTRATE OPERATIONS COMMAND AND CONTROL OF PLANT EVOLUTIONS AND TESTS
  
- NO NRC VIOLATIONS RELATED TO HFT-2 ACTIVITIES.
  
- NO EVENTS THAT WOULD RESULT IN 50.72 OR 50.73 REPORTS IF OPERATING
  
- DEMONSTRATE A CONSERVATIVE APPROACH TO OPERATIONS IN PERFORMANCE OF TESTS AND EVOLUTIONS, INCLUDING RESPONSE TO EQUIPMENT MALFUNCTION
  
- OPERATE ALL EQUIPMENT SAFELY AND IN ACCORDANCE WITH APPROVED PROCEDURES
  
- DEMONSTRATE FULL COMPLIANCE WITH THE STATUS CONTROL PROGRAM

HFT-2 - RESULTS  
OPERATIONS/SURVEILLANCE GOALS

- DEMONSTRATE PROPER TURNOVER AND EVOLUTION BRIEFINGS
  
- DEMONSTRATE PROPER LOG KEEPING.
  
- DEMONSTRATE ABILITY TO PERFORM SURVEILLANCE REQUIREMENT REVIEWS PRIOR TO MODE CHANGES
  
- PERFORM SURVEILLANCE INSTRUCTIONS (SIs) IN ACCORDANCE WITH HFT-2 SCHEDULE
  
- NO DELAYS IN SI PERFORMANCE DUE TO INADEQUATE TEST COORDINATION OR PREPARATION
  
- DEMONSTRATE ABILITY TO EVALUATE ACCEPTANCE CRITERIA AND TAKE APPROPRIATE ACTIONS IF NEEDED.

HFT-2 - RESULTS  
OPERATIONS  
CONCLUSIONS

- OPERATIONAL ATTITUDE
  - CONSERVATIVE
  - PROCEDURALLY SENSITIVE
  - SELF CRITICAL
  
- AREAS FOR IMPROVEMENT
  - EXPECTATIONS
  - INTER/INTRA DEPARTMENTAL COMMUNICATION
  
- OVERALL
  - PERFORMANCE IS AT A LEVEL CONSISTENT WITH THAT REQUIRED IN AN OPERATING FACILITY

## HFT-2 RESULTS TESTING

- OBJECTIVES
  - DEMONSTRATE THE OPERATIONAL READINESS OF THE PLANT
  - RESOLVE TESTING DEFICIENCIES FROM THE PREVIOUS HOT FUNCTIONAL TEST (HFT)
  
- TEST PERFORMANCE ON SAFETY AND NON-SAFETY SYSTEMS
  - 13 SYSTEMS TESTED
  - 17 PREOPERATIONAL TEST INSTRUCTION SUPPLEMENTS COMPLETED
  - 186 SURVEILLANCE INSTRUCTIONS (SIs) PERFORMED
    - 44 SIs RELATED TO HFT-2

## HFT-2 RESULTS TESTING

- MAJOR EQUIPMENT ISSUES FROM PREVIOUS HFT RESOLVED
  - RESIDUAL HEAT REMOVAL PUMP
  - TURBINE DRIVEN AUXILIARY FEEDWATER PUMP
  - MOTOR DRIVEN AUXILIARY FEEDWATER PUMP
  - POSITIVE DISPLACEMENT CHARGING PUMP
  - CHEMICAL VOLUME CONTROL SYSTEM BORATION AND DILUTION
  - PRESSURIZER LEVEL AND PRESSURE CONTROL
  
- EQUIPMENT/COMPONENT ITEMS UNDERGOING RESOLUTION
  - SAFETY INJECTION CHECK VALVES
  - STEAM GENERATOR BLOWDOWN VALVE POSITION INDICATION AND STEAM GENERATOR LOOP 2 ISOLATION VALVE LEAKAGE
  - MOTOR DRIVEN AUXILIARY FEEDWATER PUMP CHECK VALVE CHATTER

## HFT-2 RESULTS TESTING

- OVERALL ASSESSMENT

- PERFORMED MAJOR TESTING SUCCESSFULLY
- SYSTEMS WERE READY AND PERFORMED INTENDED FUNCTION DURING HFT-2
- PROVED THE PLANT CAN BE EFFECTIVELY OPERATED
- TEST RESULTS WERE PROCESSED IN A TIMELY MANNER
- PROVED TO BE EXCELLENT LEARNING EXPERIENCE FOR ALL DEPARTMENTS

## OPERATIONAL READINESS PROGRAM (ORP) CONCLUSIONS

- WE VERIFIED THAT THE PLANT EQUIPMENT WILL PERFORM AS DESIGNED.
- THE ORP PROGRAM HAS CONCLUDED THAT THE PROGRAMS, PEOPLE AND PROCEDURES ARE READY TO SUPPORT FUEL LOAD AND PLANT OPERATION.
- THE ASSESSMENT OF OUR PERFORMANCE DURING HFT-2 SUPPORTS THIS CONCLUSION OF READINESS.
- HFT-2 WAS AN EXCELLENT OPPORTUNITY TO DRY RUN OUR PROGRAMS AND GAVE OUR OPERATORS AN OPPORTUNITY TO RUN THE PLANT.
- WE HAVE EXERCISED OUR ABILITY TO IDENTIFY PROBLEMS AND IMPROVE OUR ABILITY TO DETERMINE ROOT CAUSES.

III. CONSTRUCTION COMPLETION

J. SCALICE

## CONSTRUCTION COMPLETION

- SCHEDULE STATUS

- HOT FUNCTIONAL TEST-2 COMPLETED AUGUST 22, 1995 (2 DAYS AHEAD OF SCHEDULE)
- FUEL LOAD
  - COMPLETION AND TURNOVER OF REMAINING SYSTEMS ARE PROJECTING TO OCTOBER 4, 1995
  - ANALYSIS OF OPEN DOCUMENT BACKLOG PROJECTS A FUEL LOAD BETWEEN OCTOBER 28 AND NOVEMBER 11, 1995

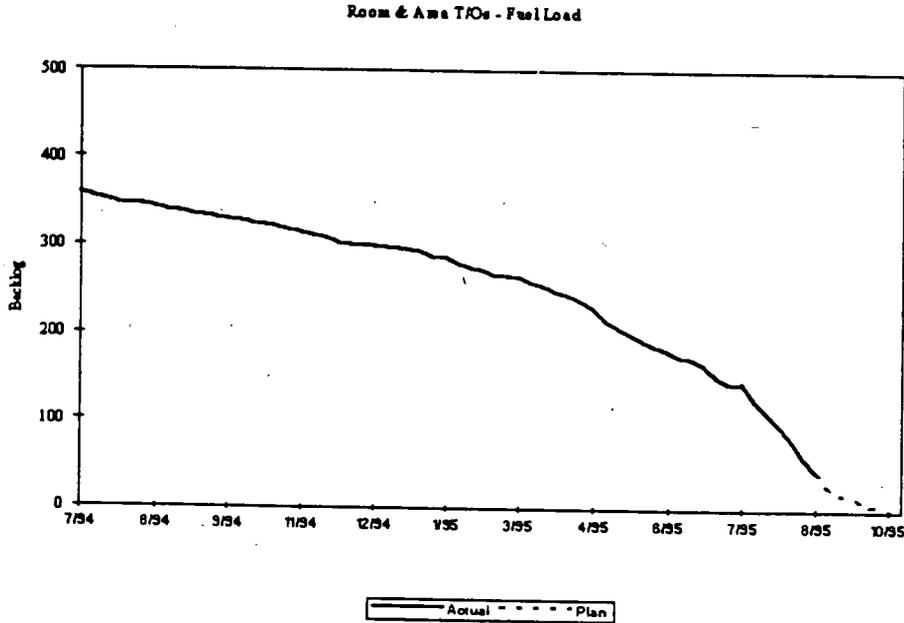
- COMMODITY COMPLETION

- CONSTRUCTION COMMODITIES ARE 99% COMPLETE AND PROJECTING COMPLETION IN SEPTEMBER 1995
- REMAINING INCOMPLETE COMMODITIES ARE MASS INSULATION (6%), AND PAINTING (10%)
- FOLLOWING CONSTRUCTION COMMODITIES ARE ESSENTIALLY COMPLETE
  - HANGERS AND SUPPORTS
  - CABLE
  - CONDUIT
  - PIPING/TUBING
  - MIRROR INSULATION
  - FIREWRAP/THERMOLAG
  - COMPONENT TESTS
  - PREOPERATIONAL TESTS

# CONSTRUCTION COMPLETION

- ROOM AND AREA TURNOVERS

- 300 OUT OF 362 ROOM AND AREA TURNOVERS FOR FUEL LOAD ARE COMPLETE WITH FORECASTED COMPLETION IN SEPTEMBER
- TREND TO DATE INDICATES REMAINING POST FUEL LOAD ROOM AND AREAS TO COMPLETE BY MID-OCTOBER



- SYSTEM TURNOVERS

- 132 OUT OF 134 COMPLETE
- 2 REMAINING SYSTEM TURNOVERS INCLUDE
  - SYSTEM 31 - "HVAC" - (FORECASTED COMPLETION 9/10/95)
  - SYSTEM 90 - "RADIATION MONITORING" - (FORECASTED COMPLETION 10/4/95)

SYSTEM	COMPLETE TO-DATE	REMAINING
SYSTEM 31		
- CHILLER INSERVICE	9	3
- COMPONENT TESTS	1288	4
- WORK IMP. DOCUMENTS	11253	472
SYSTEM 90		
- INITIAL COMPONENT TESTS	320	38
- WORK IMP. DOCUMENTS	4813	666
- PREOPERATIONAL TESTS	1	2

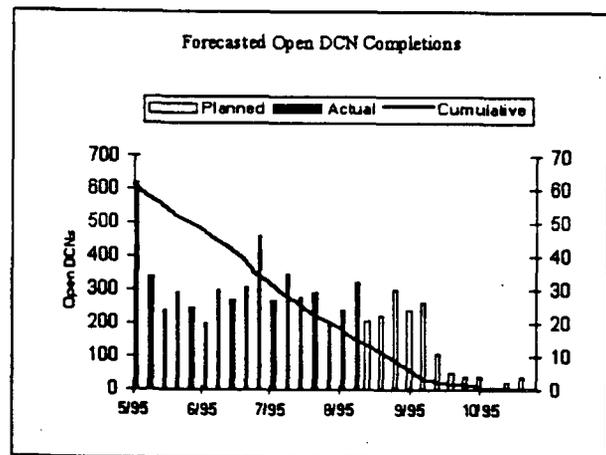
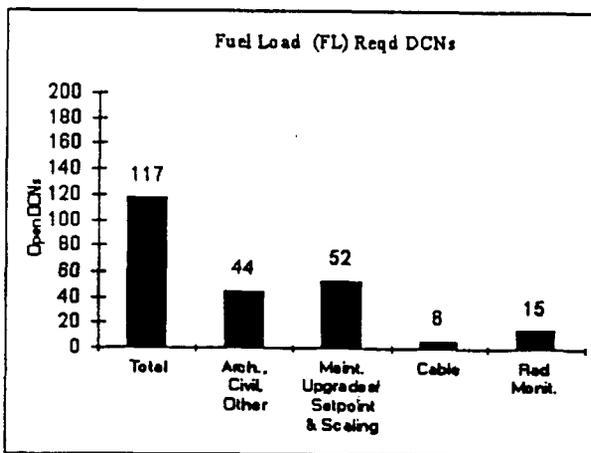
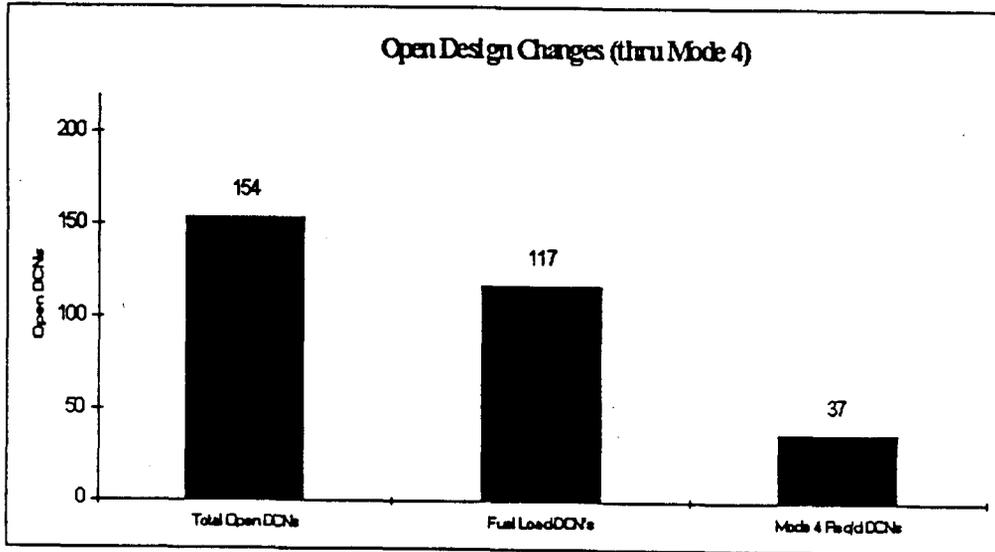
## CONSTRUCTION COMPLETION

- CORRECTIVE ACTION PROGRAMS/SPECIAL PROGRAMS (CAPs/SPs)
  - 22 OF 28 CAPs/SPs HAVE BEEN DETERMINED TO BE ADEQUATELY IMPLEMENTED BY THE NRC
  - NUCLEAR ASSURANCE INDEPENDENT VERIFICATION STATUS
    - FIELD VERIFICATIONS INDICATE GOOD QUALITY WORK
    - RECENT ASSESSMENTS HAVE RESULTED IN NO SIGNIFICANT ISSUES AND THAT PROGRAMS ARE BEING EFFECTIVELY IMPLEMENTED
  - OPEN CAP WORK

OPEN CAP/SPs	REMAINING WORK
CABLE TRAY & CONDUIT	SUPPORT MODS, TRAY AND CONDUIT WALKDOWNS (AREA SCHEDULE) AND CLOSURE OF CORRECTIVE ACTION DOCUMENTS
CABLE/ELECTRICAL ISSUES	HOT PIPE (AREA SCHEDULE), BEND RADIUS, VERTICAL SUPPORTS, SPLICES, COMPUTERIZED CABLE ROUTING SYSTEM (CCRS), FLEX CONDUIT (AREA SCHEDULE), AND RACEWAY SEPARATION (AREA SCHEDULE)
VENDOR INFORMATION	PAPER CLOSURE (CORRECTIVE ACTION PROGRAM DOCUMENTS AND LICENSING OPEN ITEMS)
RADIATION MONITORING	COMPLETION OF 11 DESIGN CHANGES, ASSOCIATED TESTS AND PAPER CLOSURE

- REMAINING NRC IMPLEMENTATION INSPECTIONS
  - CABLE TRAY & CONDUIT (9/14 - 9/22)
  - CABLE & ELECTRICAL ISSUES (ONGOING MONTHLY INSPECTIONS)
  - RADIATION MONITORING (BEING SCHEDULED)
  - VENDOR INFORMATION (9/25 - 10/6)

# CONSTRUCTION COMPLETION DESIGN CHANGE NOTICE (DCN) WORKOFF CHARTS (AS OF 8/31/95)



CONSTRUCTION COMPLETION  
WATTS BAR NUCLEAR  
UNIT 1 (AS OF 8/31/95)

• DESIGN CHANGES REQUIRED FOR FUEL LOAD LICENSE

- NUMBER OF BASE DESIGN CHANGES 117
- ASSOCIATED CRAFT MAN-HOURS TO GO 94,982
- RELATED PAPER CLOSURE 1,985

TYPICAL DESIGN CHANGES REQUIRED FOR FUEL LOAD LICENSE	
• COATINGS, CONCRETE	5
• SEALS	3
• INSULATION	3
• T-LAG/FIREWRAP	3
• CONDUIT/CABLE TRAY SUPPORTS	17
• LIFTING DEVICES	1
• FIRE DAMPERS	3
• EQUIPMENT ACCESSIBILITY	2
• LIGHTING	1
• ELEC./TERMS/RAYCHEM/KAPTON	6
• CABLE	0
• VALVE/PIPING	4
• CALIB./SETPOINTS	14
• EQUIPMENT REWORK AND REPAIR	38
• RAD MONITORING	17
• TOTAL	117

• DESIGN CHANGES REQUIRED FOR MODE 4

- NUMBER OF BASE DESIGN CHANGES 37
- ASSOCIATED CRAFT MAN-HOURS TO GO 11,753
- RELATED PAPER CLOSURE 112

TYPICAL DESIGN CHANGES REQUIRED FOR MODE 4	
• COATINGS, CONCRETE	1
• SEALS	1
• INSULATION	2
• T-LAG/FIREWRAP	0
• CONDUIT/CABLE TRAY SUPPORTS	1
• LIFTING DEVICES	1
• FIRE DAMPERS	0
• EQUIPMENT ACCESSIBILITY	0
• LIGHTING	0
• ELEC./TERMS/RAYCHEM/KAPTON	1
• CABLE	1
• VALVE/PIPING	3
• CALIB./SETPOINTS	7
• EQUIPMENT REWORK AND REPAIR	19
• RAD MONITORING	0
• TOTAL	37

CONSTRUCTION COMPLETION  
WATTS BAR NUCLEAR  
UNIT 1

- TOTAL OPEN DOCUMENTS (AS OF 8/31/95)
  - TOTAL OPEN DCN RELATED DOCUMENTS 2178
  - TOTAL OPEN NON-DCN RELATED DOCUMENTS 3870
  - TOTAL OPEN DOCUMENTS 6048
  
- NO PROGRAMMATIC ITEMS/ISSUES FORECASTED AFTER FUEL LOAD

DOCUMENT TYPE	CURRENT BACKLOG	PROJECTED AFTER FUEL LOAD WORKING BACKLOG
DESIGN CHANGE RELATED DOCUMENTATION	2078	100
OTHER WORK ORDERS/WORK REQUESTS CORRECTIVE MAINTENANCE OTHER WO/WRs*	231 1464	200 500
CORRECTIVE ACTION PROGRAM DOCUMENTS	519	35
SUPPORT DCNs (S, F, & Q)**	537	50
NUCLEAR EXPERIENCE REPORTS	33	40
NRC OPEN ITEMS & COMMITMENTS	261	30
TOTAL	5123	< 1000

\* OTHER INCLUDES THOSE WO's THAT ARE FIELD COMPLETE (316), AND THOSE NOT ASSOCIATED WITH DCNS (1648)

\*\* SUPPORT DESIGN CHANGES INCLUDE:  
 F TYPE - USED TO IDENTIFY AND IMPLEMENT CHANGES TO ISSUED M TYPES  
 S TYPE - NO FIELD WORK, DOCUMENTATION ONLY  
 Q TYPE - USED TO DISPOSITION QUESTIONS AND PROVIDE CLARIFICATIONS

IV. LICENSING STATUS

B. SCHOFIELD

## LICENSING STATUS

- FINALIZATION OF FSAR AND TECHNICAL SPECIFICATIONS
  
- IMPLEMENTING FUEL LOAD CERTIFICATION PLAN, FUEL LOAD PUNCHLIST, AND SUBMIT CERTIFICATION OF READINESS TO LOAD FUEL
  
- FIRE PROTECTION PROGRAM
  - PENETRATION SEAL REVIEW
  
  - MULTIPLE HIGH IMPEDANCE FAULT ANALYSIS
  
- NRC OPEN ITEMS
  - TOTAL - 133
  
  - TVA - 56

V. NUCLEAR ASSURANCE

D. KEHOE

## NUCLEAR ASSURANCE CONSTRUCTION COMPLETION

- CAPs/SPs - CONSTRUCTION WORK - AREA TURNOVERS
  - GOOD QUALITY LEVELS/HIGH ACCEPTANCE RATES
  - OVERSITE EFFORTS VIRTUALLY COMPLETE
  
- CORRECTIVE ACTION DOCUMENTS/NRC OPEN ITEM PACKAGES
  - CONTINUE 100% REVIEW
  - ACCEPTANCE RATE CONSISTENTLY HIGH

## NUCLEAR ASSURANCE SYSTEM TURNOVERS

- SPOC/SPAE
  - FOUR SYSTEMS EVALUATED
  - PROCESS AND IMPLEMENTATION SATISFACTORY
- PORC REVIEW
  - MANAGEMENT INVOLVEMENT
  - QUESTIONING ATTITUDE

## NUCLEAR ASSURANCE OPERATIONAL READINESS

- OPERATIONAL READINESS PROGRAM
  - OVERSIGHT SUCCESSFULLY COMPLETED
  
- HFT-2 ASSESSMENT
  - QUESTIONING ATTITUDE
  - CONSERVATIVE APPROACH
  - STATUS CONTROL-IMPROVING TREND
  - OVERALL CONTINUOUS IMPROVEMENT
  
- INTEGRATED DESIGN INSPECTION (IDI)
  - DESIGN BASIS ESTABLISHED
  - CONSTRUCTION MEETS DESIGN
  - OPERATING PROCEDURES REFLECT DESIGN
  - CAPs/SPs APPROPRIATELY INTEGRATED
  
- FUEL LOAD READINESS REPORT
  - PERFORMANCE SUPPORTS FUEL LOAD
  - CONTINUE CLOSE MONITORING OF MAINTENANCE, OPERATIONS, AND ENGINEERING SUPPORT

NUCLEAR ASSURANCE  
OVERALL CONCLUSION

- MANAGEMENT SETS AND REINFORCES EXPECTATIONS
- OPERATIONAL EXPECTATIONS AND QUESTIONING ATTITUDE  
DEMONSTRATED
- SITE ORGANIZATION READY TO OPERATE

VI. REASONABLE ASSURANCE

R. BARON

## REASONABLE ASSURANCE ASSESSMENT REPORT (RAAR)

- REPORT SUBMITTED JUNE 28, 1995
  
- CONCLUSION
  - UPON COMPLETION OF SCHEDULED ACTIVITIES WBN READY TO LOAD FUEL
  
- UPDATE TO CONCLUSION
  - INTEGRATED DESIGN INSPECTION (IDI) AND HFT-2 HAVE AGAIN CONFIRMED RAAR'S PRIOR CONCLUSION
  
  - NO SIGNIFICANT HARDWARE PROBLEMS IDENTIFIED IN IDI
  
  - NO SIGNIFICANT OPERATIONAL PROBLEMS IDENTIFIED IN HFT-2

IX. CLOSING REMARKS

J. SCALICE