

58-390



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

September 14, 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, August 23, 1995 .

On September 7, 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 was open to the public for observation. The second portion of the meeting, concerning investigative information, was closed to the public. Enclosure 1 is a list of meeting participants.

Public Portion

TVA's presentation for the public portion was outlined by the handout material (Enclosure 2). TVA stated that the recently completed Hot Functional Test 2 (HFT 2) was beneficial for preparing operators and other plant personnel for an operational mentality. The staff stated that the "full-dress-rehearsal" approach of HFT 2 was an excellent approach to demonstrate readiness, and that it is important for TVA to continue maintaining such mentality after HFT 2. The staff asked TVA to identify and track open issues that are not required to be complete before Watts Bar Unit 1 attains 5% power.

The staff announced that by mid September, it will publish Watts Bar Safety Evaluation Report, Supplement 16 (SSER 16). It will publish SSER 17 in early October which will include, among other things, the staff's overall assessment on the quality of Watts Bar Unit 1, taking into account all the activities that were undertaken by TVA and the staff. Finally, SSER 18 will be published concurrently with the low-power operating license shortly before Watts Bar Unit 1 is ready to load fuel.

A member of the public (Paul Gunter) asked the staff to address the issues of the use of Thermo-Lag fire retardant material at Watts Bar, and the impact of the recently published General Accounting Office Report, "Tennessee Valley Authority, Financial Problems Raise Questions About Long-Term Viability". The staff stated that TVA uses its own design for Thermo-Lag installation at Watts Bar, and that the staff is reviewing the design, associated tests and installation. The staff stated that it saw no evidence that TVA is unwilling to spend resources on nuclear safety, and thus within NRC's jurisdiction, there is no more concern.

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Closed Portion

Enclosures 3 and 4 were the TVA handout materials. As stated in the meeting notice, this portion was closed because the staff and TVA discussed ongoing investigative information.

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 slides for public portion
 3. TVA slides for closed portion
 4. TVA IG report, "Concerns Resolution Program
-- Watts Bar Nuclear Plant"

cc w/enclosure 1: See next page

DISTRIBUTION W/ENCLOSURE 1

W. Russell/F. Miraglia 0-12-G-18
 R. Zimmerman 0-12-G-18
 J. Taylor 0-17-G-21
 S. Varga
 J. Zwolinski
 OGC 0-15-B-18
 ACRS (4)
 E. Jordan
 M. Thadani
 G. Tracy 0-17-G-21
 A. Vietti-Cook 0-16-G-15
 E. Merschoff RII
 P. Fredrickson RII
 J. Jaudon RII
 C. Julian RII
 W. McNulty RII
 A. Howe 0-12-E-4
 T. Blatchford T-5-D-28
 L. Chandler 0-15-B-18
 R. Fortuna 0-3-E-4
 P. Narbut 0-9-A-1

DISTRIBUTION W/ENCLOSURES 1, 2, 3, AND 4

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NAME	BClayton <i>SAC</i>		PTam <i>PST</i>		JJaudon*		FHebdon <i>H</i>	
DATE	9/13/95		9/14/95		9/14/95		9/14/95	

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*Concurred by
e-mail PST*

LIST OF PARTICIPANTS
MANAGEMENT MEETING ON WATTS BAR
NRC OFFICE, ROCKVILLE MARYLAND

September 7, 1995

Portion open to the public (9:00 a.m. to 10:20 a.m.):

<u>Name</u>	<u>Affiliation</u>
R. Baron	TVA
Stewart Ebnetter	NRC/Region II
Paul Fredrickson	NRC/Region II
Paul Gunter	--
Tim Hall	TVA
Frederick Hebdon	NRC/NRR/Project Directorate II-3
G. Donald Hickman	TVA
Allen Howe	NRC/NRR/PIPB
Roger Huston	TVA Rockville Office
Johns Jaudon	NRC/Region II
Tom Johnson	TVA
Caudle Julian	NRC/Region II
Oliver D. Kingsley	TVA Nuclear
Mark O. Medford	TVA
Paul Narbut	NRC/NRR
Rick Purcell	TVA Watts Bar
William T. Russell	NRC/Director, Office of NRR
John Scalice	TVA/Watts Bar Site VP
Bruce Schofield	TVA/Watts Bar Site Licensing
Tom Tohill	TVA
Peter Tam	NRC/NRR/Project Directorate II-3
James Taylor	NRC/Executive Director for Operations
Ron W. Taylor	TVA
Mohan Thadani	NRC/NRR/Project Directorate II-3
Glenn Tracy	NRC/Office of the Executive Director
Annette Vietti-Cook	NRC/Office of Chairman
Edward J. Vigluicci	TVA
Rick Zuercher	Nucleonics Week
O. J. Zeringue	TVA

ENCLOSURE 1

Portion closed to the public (10:30 a.m. to 12:30 p.m.):

<u>Name</u>	<u>Affiliation</u>
Thomas Blatchford	NRC/OIG
Lawrence J. Chandler	NRC/Office of General Counsel
Stewart Ebnetter	NRC/Region II
Roger Fortuna	NRC
Jim Hall	TVA/OIG
Mike R. Harding	TVA
G. Donald Hickman	TVA/OIG
Johns Jaudon	NRC/Region II
Thomas Johnson	TVA/OIG
Oliver D. Kingsley	TVA
William McNulty	NRC/Office of Investigation
Mark O. Medford	TVA
Rick Purcell	TVA
Phillip L. Reynolds	TVA
William T. Russell	NRC/NRR
John Scalice	TVA
Peter Tam	NRC/NRR/Project Directorate II-3
Ron W. Taylor	TVA/OIG
Glenn Tracy	NRC/Office of Executive Director for Operations

NRC/TVA
MANAGEMENT MEETING

September 7, 1995

**NRC/TVA MANAGEMENT MEETING
AGENDA**

September 7, 1995

- | | |
|---|-------------|
| I. INTRODUCTION | O. KINGSLEY |
| II. OPERATIONAL READINESS/HFT-2 RESULTS | R. PURCELL |
| III. PLANT COMPLETION | J. SCALICE |
| V. READINESS FOR OPERATING LICENSE | O. ZERINGUE |
| VI. CLOSING | O. KINGSLEY |

I. INTRODUCTION

O. KINGSLEY

II. OPERATIONAL READINESS/HFT-2

R. PURCELL

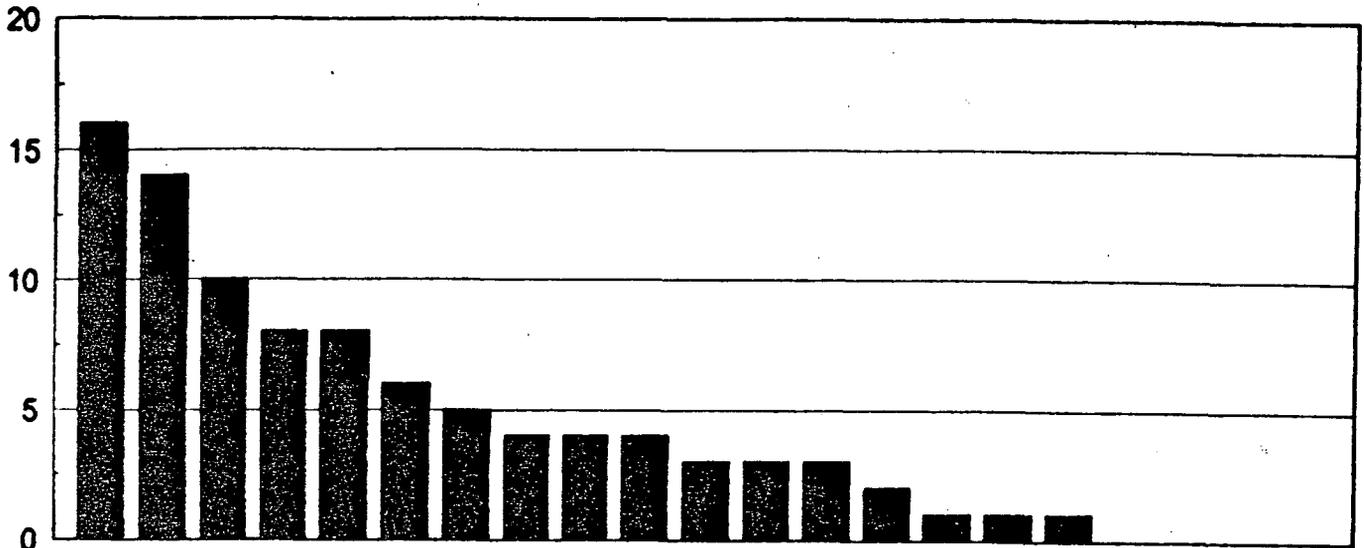
OPERATIONAL READINESS PROGRAM (ORP)

- 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
 - PROGRAM WAS CRITICAL, AREAS FOR IMPROVEMENT IDENTIFIED

IMPORTANT FINDINGS BY CATEGORY/POPULATION



A	O	B	E	L	N	H	D	P	M	C	S	U	T	G	Q	R	F	I	J	K
16	14	10	8	8	6	5	4	4	4	3	3	3	2	1	1	1	0	0	0	0

A - ADMIN PROG
 B - TECH PROCEDURES
 C - ORG & ADMIN
 D - TECH TRAINING
 E - PROG TRAINING
 F - EXPECTATIONS
 G - PERF INDICATOR
 H - HUMAN PERFORMANCE
 I - EFFICIENCY IMPROVEMENT
 J - MISC
 K - NOT READY

L - MGT EXPECTATIONS
 M- MAINT EXPECTATIONS
 N - ENGR/DESIGN DOC
 O - OPS EFFECTIVENESS
 P - PART & MATERIALS
 Q - QUALITY/LIC
 R - RAD/CHEM
 S - SCH/WORK CONTROL
 T - TECH SUPPORT
 U - COMMUNICATIONS

OPERATIONAL READINESS PROGRAM (ORP)

- 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
 - ORP ASSESSMENTS WERE CRITICAL

**OPERATIONAL READINESS PROGRAM
HFT2 OBSERVATIONS
DATE RECEIVED THROUGH AUGUST 22, 1995**

CODE	CATEGORY	OPS	MAINT	TS	CHEM	NE	MISC	TOTAL
POSITIVE HFT2 OBSERVATIONS								
7	Procedure Adherence	49	30	11	37	0	4	131
4	Conserv. Attitude	25	29	16	12	3	1	86
3	Inter Dept Comm	18	15	23	21	4	5	86
20	Other	13	2	4	2	9	2	32
5	Knowledge/Training	8	15	19	10	1	3	56
2	Intra Dept Comm	30	3	8	13	2	0	56
9	Mgmt Oversight	15	5	10	7	4	1	42
1	Pretest/job Brief	7	19	1	5	1	0	33
6	STAR-Self Check	11	13	2	0	1	0	27
8	Planning/timeliness	4	8	2	8	3	1	26
0	Procedures	0	1	3	2	0	0	6
21	Material Condition	0	0	1	0	0	1	2
	Subtotal	180	140	100	117	28	18	583
NEGATIVE HFT2 OBSERVATIONS								
18	Planning/Timeliness	10	26	8	1	1	3	49
10	Procedures	3	13	10	18	0	0	44
17	Procedure Adherence	14	11	6	3	0	4	38
120	Other	14	10	0	6	1	4	35
121	Material Condition	13	5	1	5	0	1	25
15	Knowledge/Training	6	4	4	3	0	4	21
19	Mgt Oversight	6	2	4	6	1	1	20
13	Inter Dept Comm	5	4	6	3	0	1	19
11	Pretest/job Brief	4	2	0	0	2	0	8
12	Intra Dept Comm	3	0	3	2	0	0	8
14	Conserv. Attitude	1	3	2	1	0	0	7
16	STAR-Self Check	1	1	0	1	0	0	3
	Subtotal	80	81	44	49	5	18	277
	TOTAL	260	221	144	166	33	36	860

**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.

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

- AREA FOR IMPROVEMENT - COORDINATION OF SUPPORT ACTIVITIES

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

- AREA FOR IMPROVEMENT - BETTER SCHEDULING OF TEST ACTIVITIES WITH OTHER WORK

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

- AREA FOR IMPROVEMENT - COORDINATION OF WORK / PRESTAGING OF MATERIAL

- 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

- AREAS FOR IMPROVEMENT - MORE VISIBILITY IN OPERATIONS BRIEFINGS / PROCEDURE ENHANCEMENTS

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**

V. PLANT 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

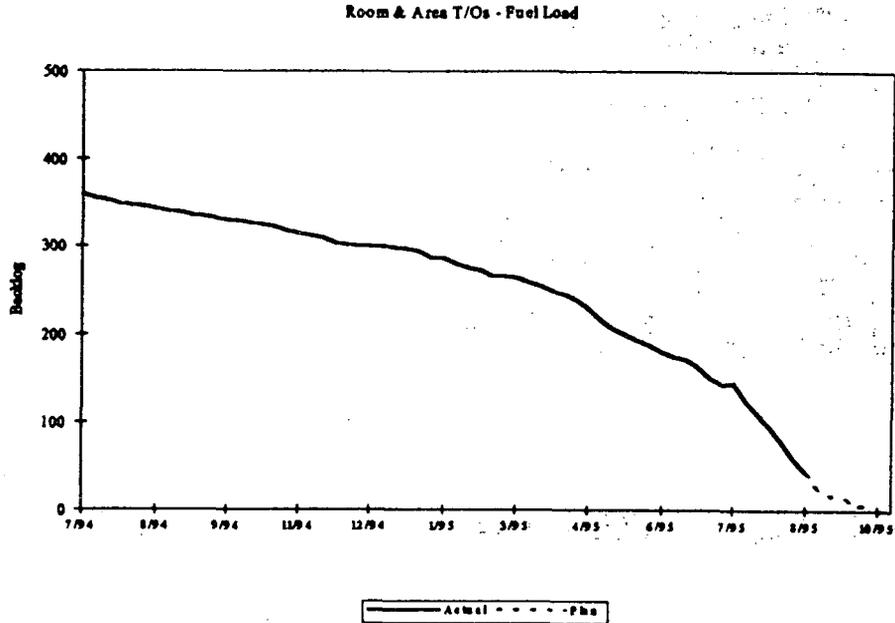
● COMMODITY COMPLETION

- 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

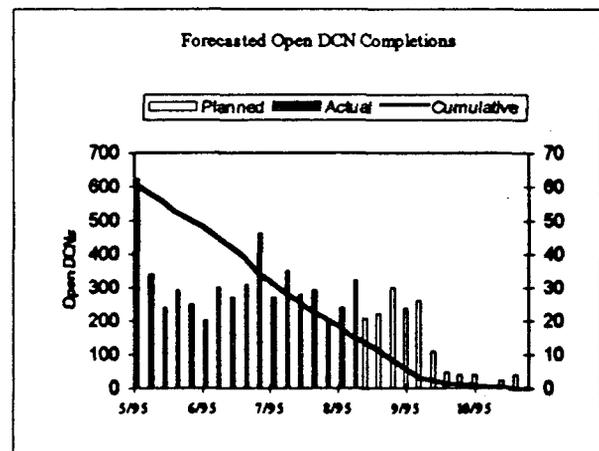
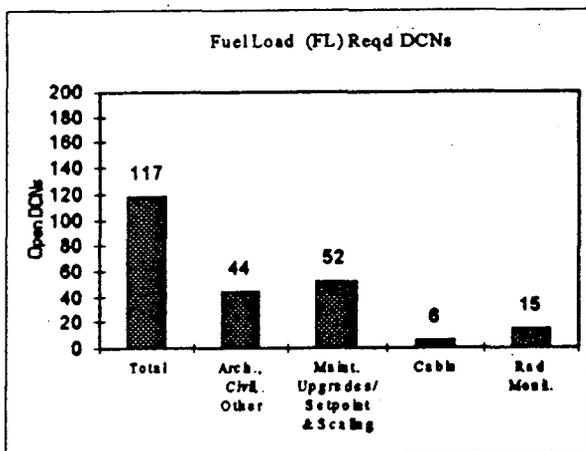
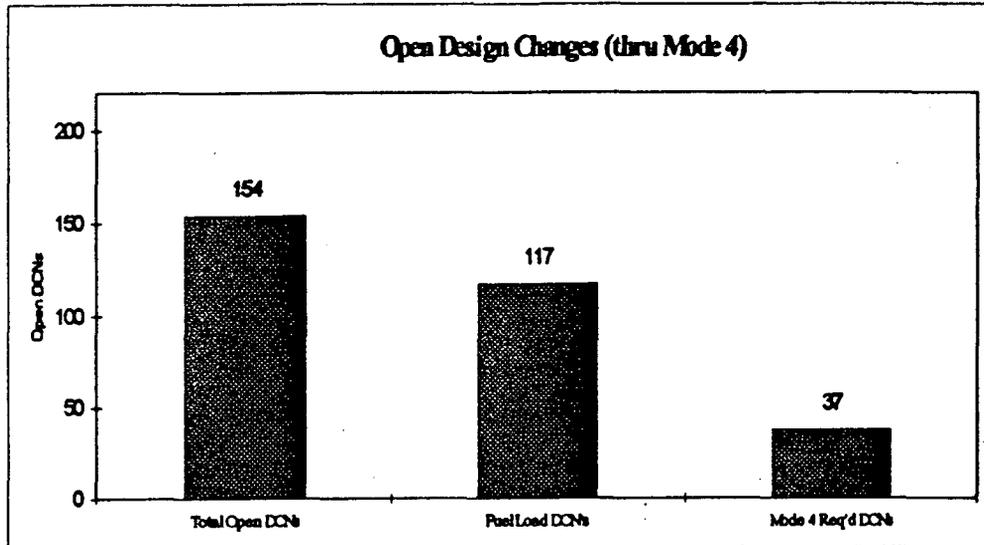
CONSTRUCTION COMPLETION

- **CORRECTIVE ACTION PROGRAMS/SPECIAL PROGRAMS (CAPs/SPs)**
 - 22 OF 28 CAPs/SPs HAVE BEEN DETERMINED BY THE NRC TO BE ADEQUATELY IMPLEMENTED
 - 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	231	200
CORRECTIVE MAINTENANCE	1464	500
OTHER WO/WRs*		
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)

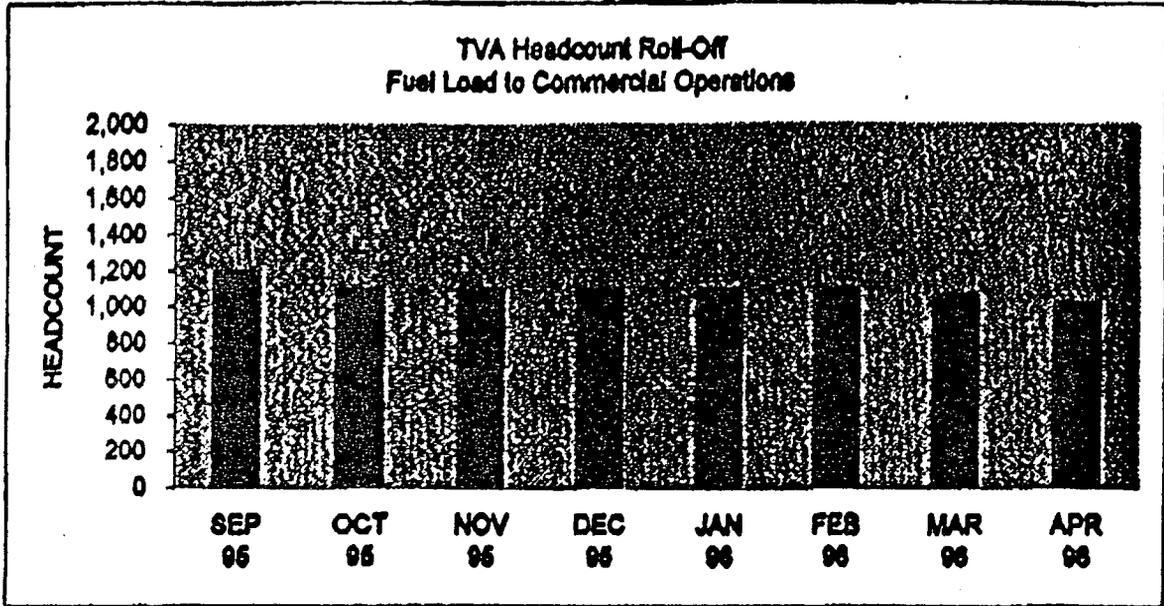
** SUPPORT DESIGN CHANGES INCLUDE:

F TYPE - USED TO IDENTIFY AND IMPLEMENT CHANGES TO ISSUED M TYPES

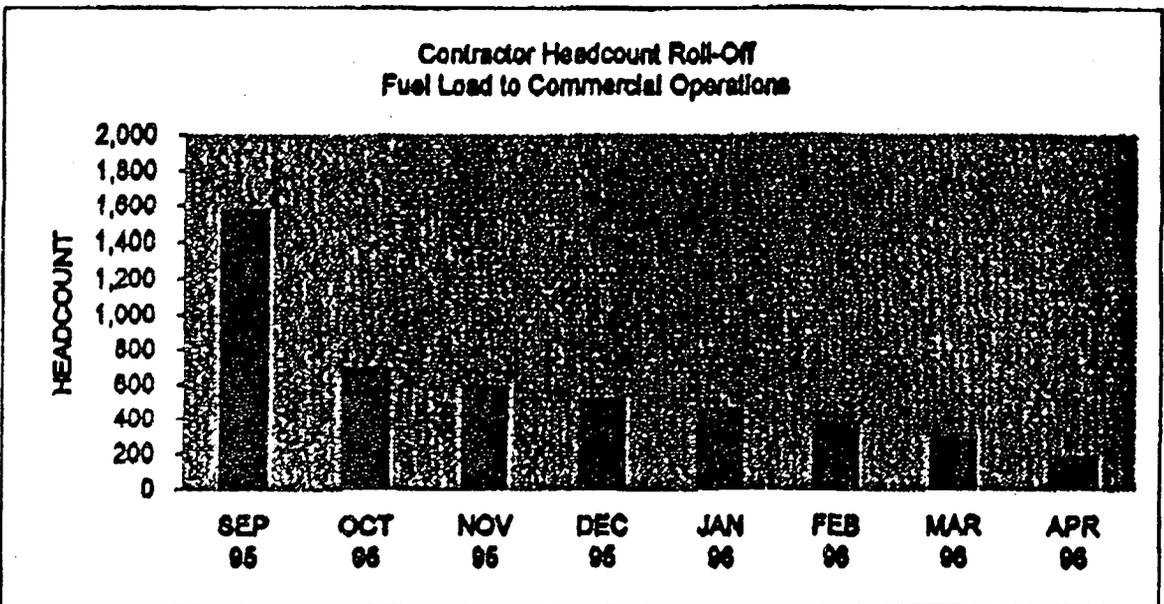
S TYPE - NO FIELD WORK, DOCUMENTATION ONLY

Q TYPE - USED TO DISPOSITION QUESTIONS AND PROVIDE CLARIFICATIONS

WATTS BAR NUCLEAR PLANT HEADCOUNT ROLL-OFF SEPTEMBER 1995 to APRIL 1996



SEP 95	OCT 95	NOV 95	DEC 95	JAN 96	FEB 96	MAR 96	APR 96
FUEL LOAD	1,109	1,109	1,109	1,109	1,108	1,069	COMM OP
							1,026



SEP 95	OCT 95	NOV 95	DEC 95	JAN 96	FEB 96	MAR 96	APR 96
FUEL LOAD	698	592	522	455	373	321	COMM OP
							184

READINESS FOR OPERATING LICENSE

O. ZERINGUE

OVERVIEW OF COMMISSION BRIEFING AGENDA

I. C. CROWELL

- ROLE OF NUCLEAR GENERATION
- BOARD INVOLVEMENT
- COMMITMENT OF RESOURCES

II. O.D. KINGSLEY

- HISTORICAL OVERVIEW
- MANAGEMENT TEAM
- CORRECTIVE ACTIONS

III. O.J. ZERINGUE

- DESIGN/CONSTRUCTION ADEQUACY
- TRANSITION TO OPERATIONS

IV. J.A. SCALICE

- SITE OPERATIONAL READINESS
- QA EFFECTIVENESS / SELF IDENTIFICATION
- CONCERNS RESOLUTION
- LICENSING CERTIFICATION PROCESS

V. R.T. PURCELL

- PLANT READINESS
- OPERATING STAFF

VI. O.D. KINGSLEY

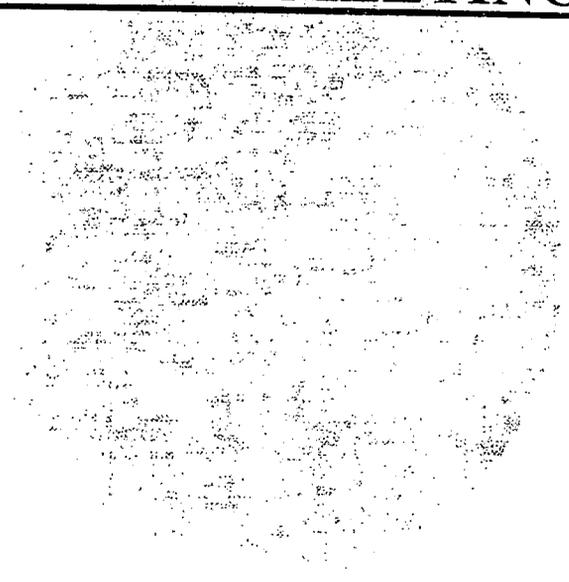
- CONCLUSION

IX. CLOSING REMARKS

O. KINGSLEY

SEPTEMBER 7, 1995

NRC CLOSED SESSION MEETING



**CONCERNS RESOLUTION PROGRAM
ACTIVITY SINCE FEBRUARY 23, 1995**

- REVIEW OF 80 HIGH PROFILE ISSUES COMPLETE.
- 15 TVA AND 14 CONTRACTOR FILES OPEN ON FEBRUARY 23.
TWO TVA FILES REMAIN OPEN.
- 10 TVA FILES OPENED SINCE FEBRUARY 23. FIVE REMAIN OPEN.
- 18 CONTRACTOR FILES OPENED SINCE FEBRUARY 23. FIVE REMAIN OPEN.

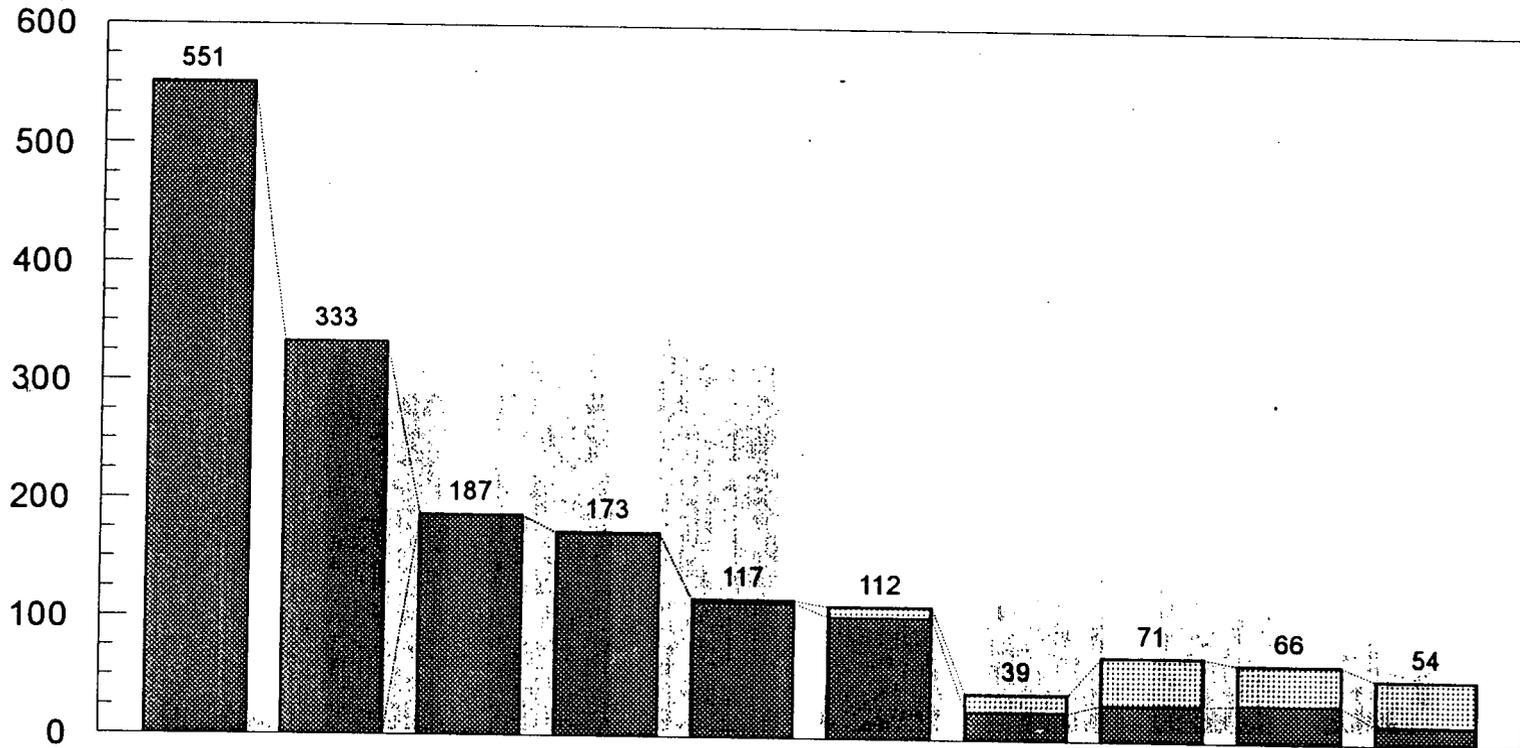
Page 1 of this handout was withdrawn by TVA during the meeting; it contains information that TVA did not want to release to the public.

Watts Bar

EMPLOYEE CONCERNS PROGRAMS

TVA and Contractor Issues Trend

Concerns

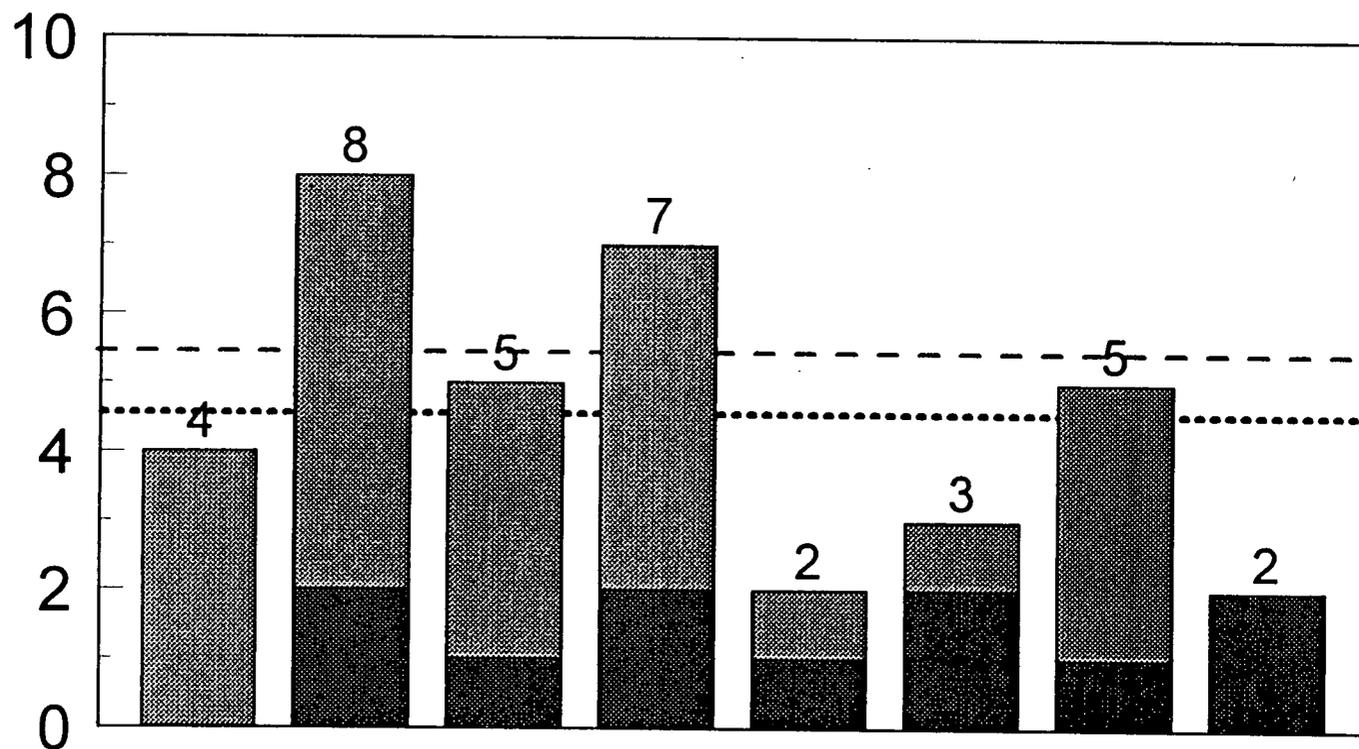


	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995 (*)
TVA Issues	551	333	186	171	115	103	24	31	32	16
Contractor Issues	0	0	1	2	2	9	15	40	34	38

* 1995 data projected based on first eight months

WATTS BAR

1995 TVA and Contractor Issues By Month



	January	February	March	April	May	June	July	August
TVA Issues	0	2	1	2	1	2	1	2
Contractor Issues	4	6	4	5	1	1	4	0

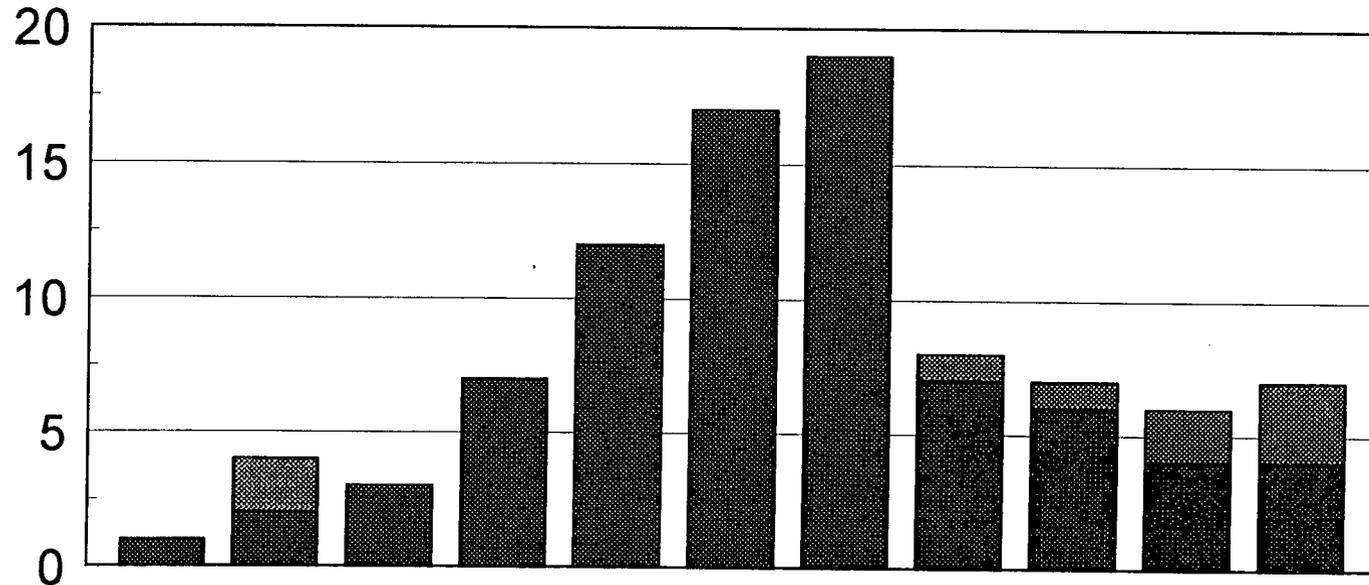
1994 AVG - - - - -

1995 AVG

WATTS BAR

210/211 CASES FILED BY CALENDAR YEAR

CASES

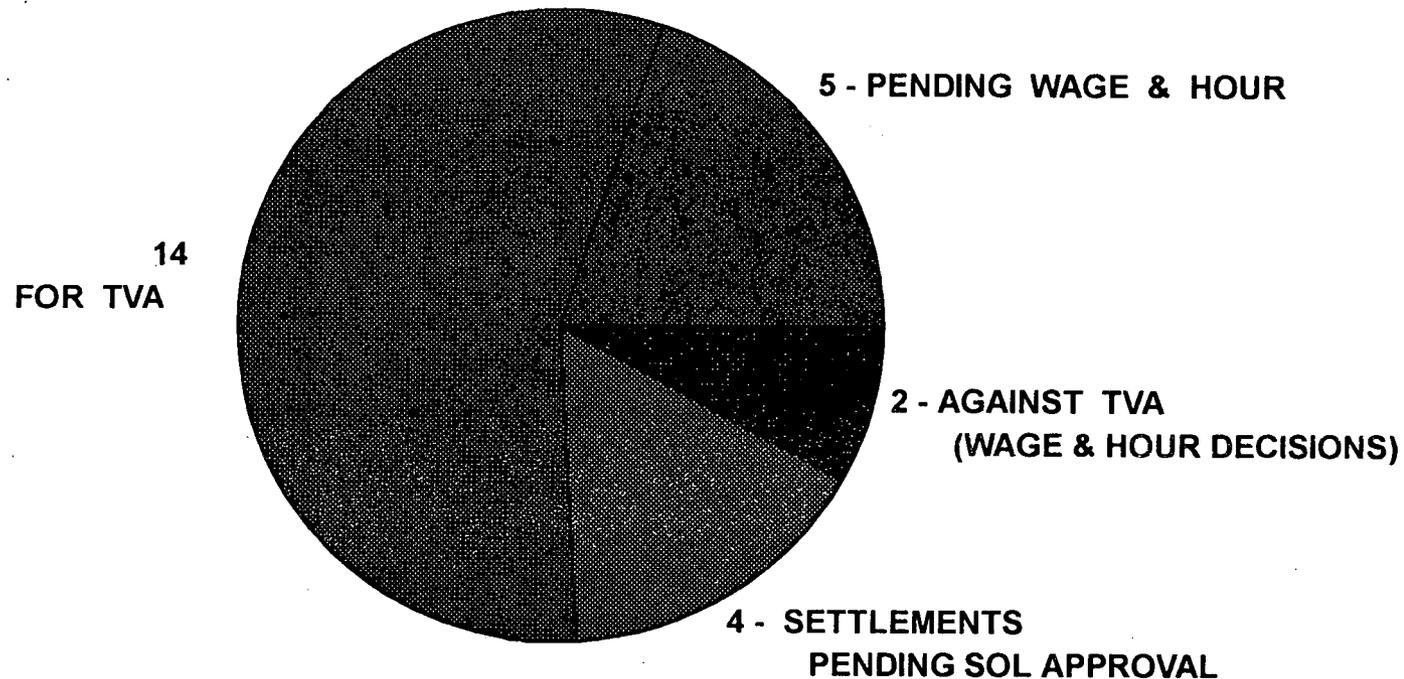


YEAR	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
TVA	1	2	3	7	12	17	19	7	6	4	4
CONTRACTORS	0	2	0	0	0	0	0	1	1	2	3
WBN TOTAL	1	4	3	7	12	17	19	8	7	6	*7

NOTE: 3 CASES WERE FILED FROM 1979 TO 1984

*AS OF: AUGUST 28, 1995

**WATTS BAR
PENDING 210/211 CASES (25)
(16 COMPLAINANTS)
(7 CONTRACTORS)**

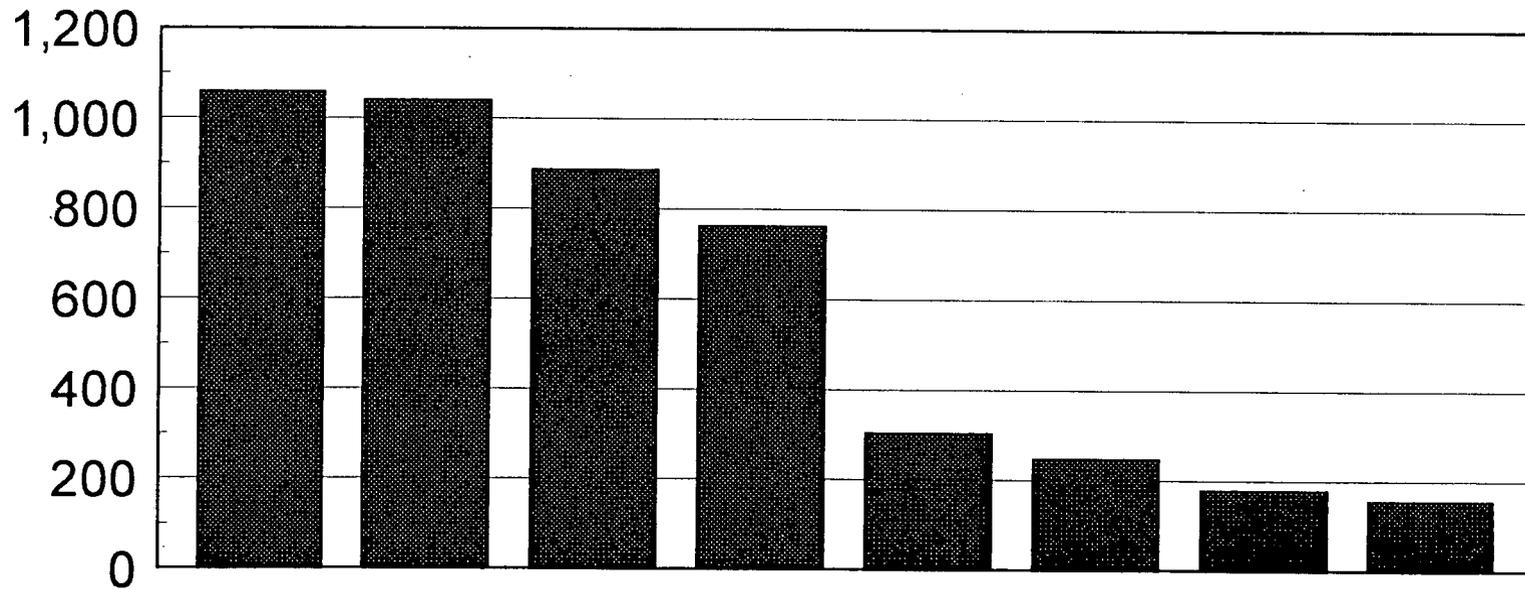


AUGUST 28, 1995

TVA NUCLEAR

TOTAL TVA COMPLAINTS FILED (EEO, DOL, MSPB, GRIEVANCES)

COMPLAINTS



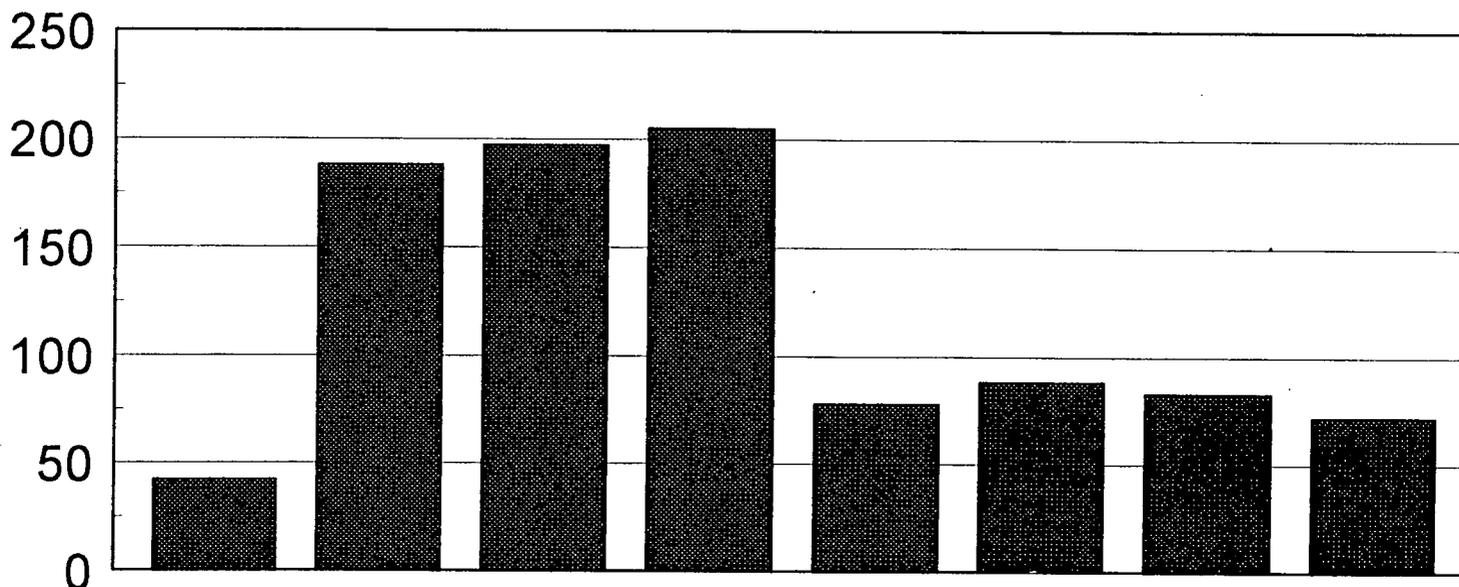
YEAR	1988	1989	1990	1991	1992	1993	1994	1995
TOTALS ■	1,059	1,041	886	763	302	247	178	*155

* AS OF: AUGUST 28, 1995

WATTS BAR

TOTAL TVA COMPLAINTS FILED (EEO, DOL, MSPB, GRIEVANCES)

COMPLAINTS



YEAR	1988	1989	1990	1991	1992	1993	1994	1995
TOTALS ■	42	188	197	205	78	88	83	*72

WATTS BAR NUCLEAR PLANT

cc:

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

Mr. O. J. Zeringue, Sr. Vice President
Nuclear Operations
Tennessee Valley Authority
3B Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

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

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

Mr. J. A. Scalice, Site Vice President
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
Tennessee Valley Authority
4G Blue Ridge
1101 Market Street
Chattanooga, TN 37402-2801

Mr. B. 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

Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW., Suite 2900
Atlanta, GA 30323

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

The Honorable Robert Aikman
County Executive
Rhea County Courthouse
Dayton, TN 37321

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

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

Ms. 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

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

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