

APPLICANT: Tennessee Valley Authority (TVA)

FACILITY: Watts Bar Nuclear Plant, Unit 1

SUBJECT: MEETING SUMMARY - MANAGEMENT MEETING OF OCTOBER 19, 1993  
(TAC M72494 AND M72495)

REFERENCE: Meeting notice by P. S. Tam, September 23, 1993

On October 19, 1993, NRC and TVA representatives met at the Watts Bar site to discuss issues that warrant senior management attention. Enclosure 1 is the list of participants and observers. Enclosure 2 is the collection of slides used by TVA personnel in their discussion (page 1 is the meeting agenda). TVA stated that the target date for hot functional test is now March 1994 (changed from November 1993), and containment integrated leak rate test is now May 1994 (changed from November 1993).

TVA stated that the target date for fuel loading changed from April 1994 to a "window" between late summer and early fall 1994. This schedule change is necessary for these reasons: (1) to permit TVA to spread out financial obligations over a longer period of time, (2) to permit TVA to complete all major construction/modification work inside containment before commencement of the hot functional test, and (3) to limit the number of craft workers onsite to increase efficiency. The staff stated that TVA should ensure timely completion of activities which require NRC inspection or audit; for example, audits of the Equipment Qualification Program, Detailed Control Room Design Review, and Safety Parameter Display System. It is the staff's intent to stay off the critical path to issuance of an operating license, but the staff needs accurate and up-to-date information on scheduling and construction status.

No future meeting dates have been discussed.

Original signed by

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

Enclosures:

- 1. Participant and observer list
- 2. TVA presentation slides

cc w/enclosures: 030040  
See next page

*Memof*

OFFICE	PDII-4/LA	PDII-4/PM	PDII-4/D	DRPE:AD
NAME	BClayton <i>BC</i>	PTam <i>PST</i>	FHebdon <i>FH</i>	GLainas <i>GL</i>
DATE	10/29/93	10/29/93	10/1/93	10/1/93

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Distribution

Enclosure 1

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ACRS (10)  
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A. Hodgdon  
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G. Walton, RII  
P. Vandoorn, RII  
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P. Fredrickson, RII  
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Enclosures 1, 2 and 3

Docket File  
PDR & LPDR  
WBN Reading  
E. Merschoff  
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cc:

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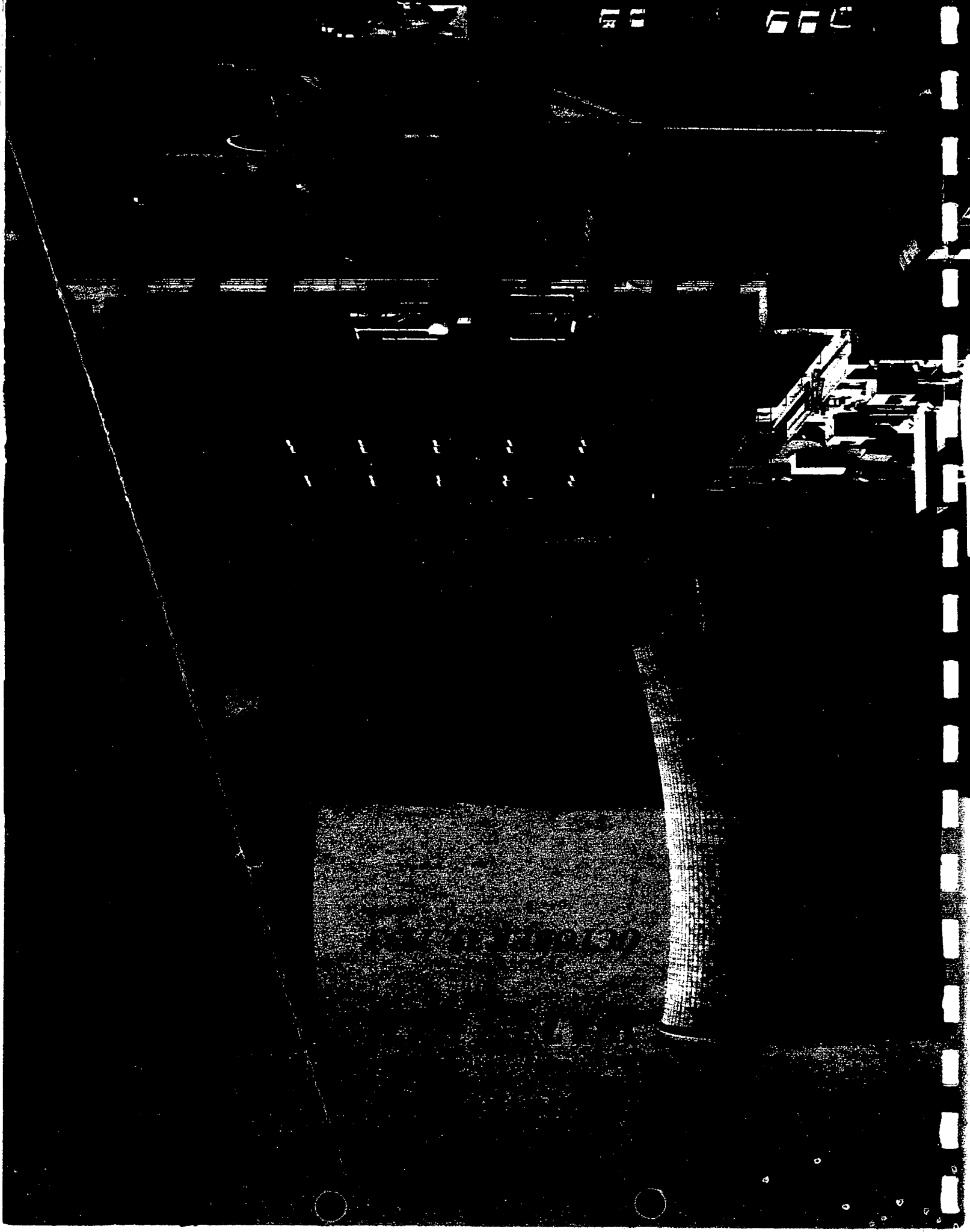
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LIST OF PARTICIPANTSMANAGEMENT MEETING OF OCTOBER 19, 1993

<u>Name</u>	<u>Affiliation</u>
R. Baron	TVA
William Bearden	NRC/Region II
Terry H. Burchfield	---
A. Capozzi	TVA PAC/AQ
L. Callan	NRC/NRR/Acting Asso. Dir. for Projects.
John Christensen	TVA/Watts Bar Construction QA
R. V. Crlenjak	NRC/Region II
R. Daly	TVA/Watts Bar Startup and Test Mgr.
Danielle Droitsch	Foundation for Global Sustainability
S. Ebnetter	NRC/Region II Administrator
Walt Elliott	TVA/Watts Bar Engineering and Modifications Mgr.
Mike Fecht	TVA/Watts Bar Operation QA
Paul Fredrickson	NRC/Region II
A. Gibson	NRC/Region II
Michael Glasman	NRC/Resident Inspector
Ann Harris	TVA
Fred Hebdon	NRC/NRR/Div. of Reactor Projects
Michael Hellums	TVA
Ann Hodgdon	NRC/Office of General Counsel
Kenneth Ivey	NRC/Resident Inspector
Nick Kazanas	TVA/VP Completion Assurance
Dan Keuter	TVA
O. D. Kingsley	TVA/Generation Group President
Gus Lainas	NRC/NRR/Div. of Reactor Projects
Julio Lara	NRC/Resident Inspector
Barbara Martocci	TVA
Fred McCuiston	TVA
T. J. McGrath	TVA
Mark Medford	TVA/VP for Technical Support
Ellis Merschhoff	NRC/Region II
R. J. Milhiser	EBASCO
Frank Miraglia	NRC/NRR, Deputy Director
Don Moody	TVA/Watts Bar Plant Manager
Thomas Murley	NRC/Director, Office of Nuclear Reactor Regulation
Bill Museler	TVA/Watt Bar Site VP
Dwight Nunn	TVA/VP for New Projects
George Ondriska	TVA
James Partlow	NRC/NRR, Associate Director for Projects
Albert B. Ruff	NRC/Region II
Phillip Rush	NRC/NRR
Bill Russell	NRC/NRR, Asso. Dir., Insp. and Technical Assessment
Mark H. Salley	TVA/Corporate Engineering
John Scalice	TVA/Watts Bar VP for Site Operations
Peter Tam	NRC/NRR/Project Directorate II-4
George Pannell	TVA/Watts Bar Site Licensing
Bruce Schofield	TVA/Corporate Licensing Mgr.
D. W. Stewart	TVA
Peter K. Vandoorn	NRC/Senior Resident Insp. for Operations
John Vorees	TVA/Watts Bar Site Licensing
Glenn Walton	NRC/Senior Resident Insp. for Construction



# TVA/NRC WATTS BAR MANAGEMENT MEETING

TUESDAY, OCTOBER 19, 1993

1:00 P.M.

## AGENDA

- |  |                     |
|--|---------------------|
| I. INTRODUCTIONS AND OPENING REMARKS                             | NRC/TVA-MURLEY/NUNN |
| II. SCHEDULE   | TVA-MUSELER         |
| III. OPERATIONAL READINESS                                       | TVA-MOODY           |
| IV. MAJOR LICENSING MILESTONES                                   | TVA-PANNELL         |
| • TECHNICAL SPECIFICATIONS                                       |                     |
| • FSAR COMPLETION  |                     |
| • FIRE BARRIER MATERIAL  |                     |
| • EAGLE 21 PROCESS INSTRUMENTATION SYSTEM                        |                     |
| V. CAP/SP CLOSURES   | TVA-PANNELL         |
| VI. OPEN ITEMS STATUS  | TVA-PANNELL         |
| VII. EMPLOYEE CONCERNS SPECIAL PROGRAM<br>LOOKBACK REVIEW STATUS | TVA-MEDFORD/CAPOZZI |
| VIII. CLOSING REMARKS  | NRC/TVA-MURLEY/NUNN |

**I. INTRODUCTIONS AND OPENING REMARKS**

**TV/NRC-MURLEY/NUNN**

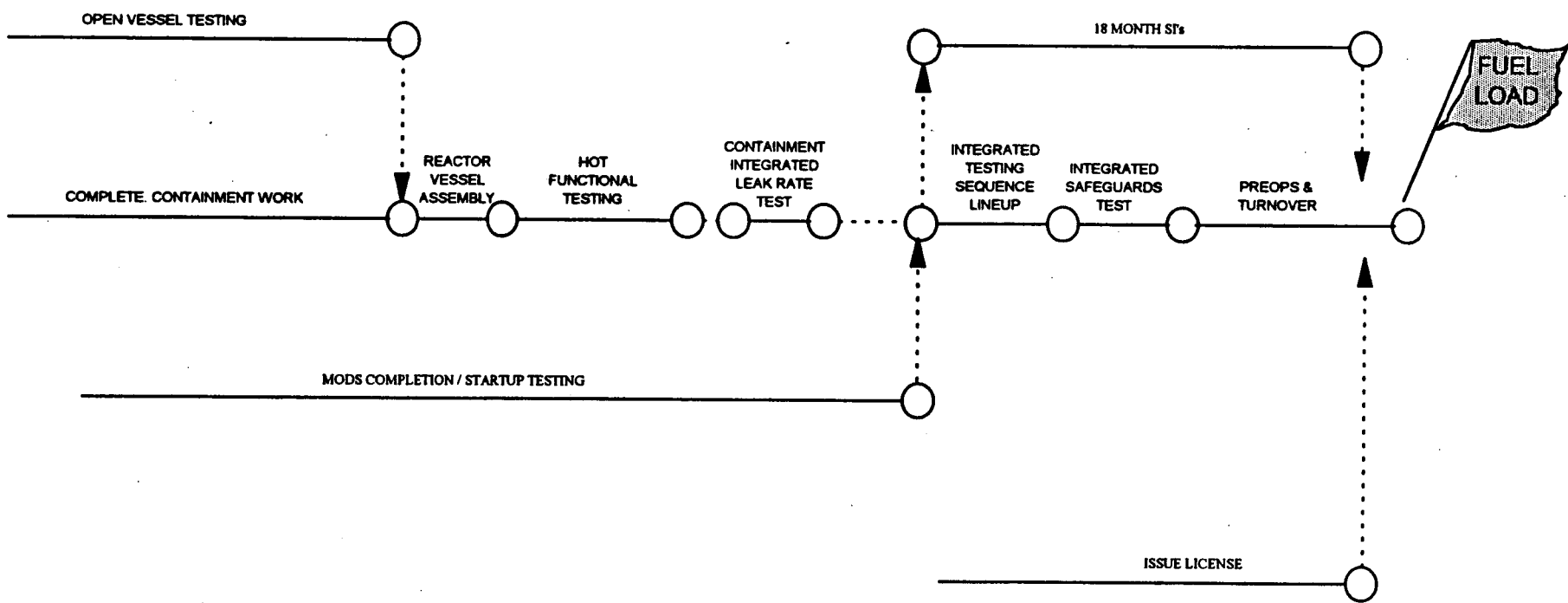
**II. SCHEDULE**

**TVA-MUSELER**

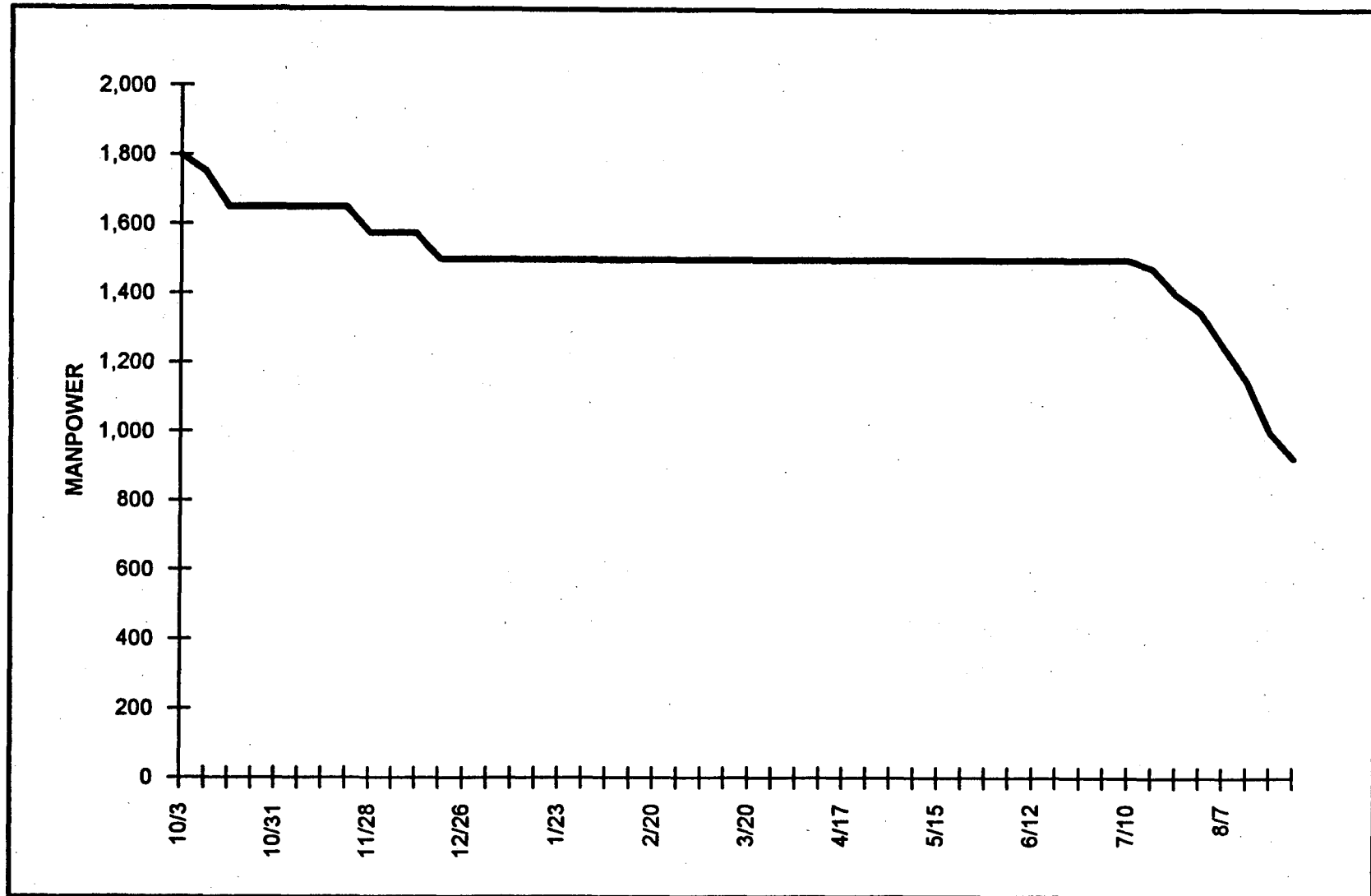


# WATTS BAR UNIT 1 MAJOR MILESTONE SCHEDULE

Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Fuel Load Late Summer - Early Fall 1994
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# WATTS BAR UNIT 1 SITE CRAFT MANPOWER



**III. OPERATIONAL READINESS**

**TVA-MOODY**

# OPERATIONAL READINESS

## MAINTENANCE

### • STATUS

- STAFFING 100%
- TRAINING 100%
- PROGRAMS DEVELOPED 11/13 OR 85%
- PROGRAMS IMPLEMENTED 7/13 OR 54%

## OPERATIONS

### • STATUS

- STAFFING 100%
- TRAINING 45% LICENSED  
76% NONLICENSED
- PROGRAMS DEVELOPED 6/07 OR 86%
- PROGRAMS IMPLEMENTED 6/07 OR 86%

## TECHNICAL SUPPORT

### • STATUS

- STAFFING 100%
- TRAINING 90%
- PROGRAMS DEVELOPED 13/22 OR 59%
- PROGRAMS IMPLEMENTED 12/22 OR 54.5%

# OPERATIONAL READINESS (cont)

## RADCON/CHEMISTRY

- **STATUS**

- STAFFING 99%
- TRAINING 80%
- PROGRAMS DEVELOPED 13/17 OR 76.4%
- PROGRAMS IMPLEMENTED 12/17 OR 70.5%

## PLANNING, SCHEDULING, AND OUTAGE MANAGEMENT

- **STATUS**

- STAFFING 100%
- TRAINING 100%
- PROGRAMS DEVELOPED 2/5 OR 40%
- PROGRAMS IMPLEMENTED 2/5 OR 40%

## OTHER SITE PROGRAMS

- PROGRAMS DEVELOPED 32/36 OR 89%
- PROGRAMS IMPLEMENTED 32/36 OR 89%

# **OPERATIONAL READINESS (cont)**

## **PROGRAM IMPLEMENTATION**

- **SELF-MONITORING**
- **INDEPENDENT MONITORING BY QA**
- **PERFORMANCE EVALUATION PROGRAM**
  - MAINTENANCE ONGOING
  - OPERATIONS START IN NOVEMBER

## **STANDDOWN MEETING WITH OPERATIONS COMPLETE**

- **ITEMS COVERED**
  - EXPECTATIONS
  - STRENGTHS
  - AREAS FOR IMPROVEMENT
  - INDUSTRY ISSUES
    - INTERNAL TVA
    - EXTERNAL TVA

**IV. MAJOR LICENSING MILESTONES**

**TVA-PANNELL**

# MAJOR LICENSING MILESTONES

- **NRC ISSUE PROOF AND REVIEW TECHNICAL SPECIFICATIONS -  
COMPLETED - MARCH 1993**
- **RADIOLOGICAL EMERGENCY PLAN EXERCISE SUCCESSFUL  
COMPLETED - OCTOBER 1993**
- **NRC ISSUE WORKING DRAFT OF TECHNICAL SPECIFICATIONS  
SCHEDULED - NOVEMBER 1993**
- **FULL COMPLEMENT OF OPERATORS LICENSED  
SCHEDULED - JANUARY 1994**
- **CLOSURE OF NRC/NRR TAC LIST ITEMS  
SCHEDULED APRIL 1994**
- **FINAL FSAR AMENDMENTS TO NRC  
SCHEDULED APRIL 1994**
- **NRC ISSUE DRAFT TECHNICAL SPECIFICATION  
FIVE MONTHS BEFORE FUEL LOAD**
- **CAP/SP'S COMPLETE  
1-3 MONTHS BEFORE FUEL LOAD**
- **TVA CERTIFY TECHNICAL SPECIFICATIONS  
2 MONTHS BEFORE FUEL LOAD**



## MAJOR LICENSING MILESTONES (cont)

- **TECHNICAL SPECIFICATIONS**

- PROOF AND REVIEW ISSUED BY NRC MARCH 31, 1993 ON SCHEDULE
- WORKING DRAFT TO BE ISSUED BY NRC NOVEMBER 1993
- FINAL DRAFT FIVE MONTHS BEFORE FUEL LOAD (CERTIFICATION DRAFT)

- **FINAL SAFETY ANALYSIS REPORT (FSAR)**

- ENTIRE FSAR PREVIOUSLY SUBMITTED
- TVA INITIATED ADDITIONAL REVIEW FOR ACCURACY AND COMPLETENESS
- CONFORMANCE TO REG GUIDE 1.70, REV 2 REVERIFIED - COMPLETE
- FINAL ASSURANCE REVIEW THAT FSAR MATCHES AS BUILT PLANT - ONGOING
- OVERALL REVIEW AND AMENDMENT COMPLETE BY APRIL 1994

## MAJOR LICENSING MILESTONES (cont)

- **FIRE BARRIER MATERIAL**

- THERMO-LAG TESTING COMPLETED
- NRC REVIEW SCHEDULED TO COMPLETE BY DECEMBER 1993
- TIMELY RESOLUTION REQUIRED
- 3-M - TVA LEAD FOR TESTING
- TESTING TO BE COMPLETED BY DECEMBER 1993
- TVA PROACTIVE IN RESOLVING ISSUES

- **EAGLE 21 PROCESS SYSTEM**

- HARDWARE COMPLETE
- VALIDATION AND VERIFICATION REPORT TO BE SUBMITTED NOVEMBER 1993

V. CAP/SP CLOSURES

TVA-PANNELL

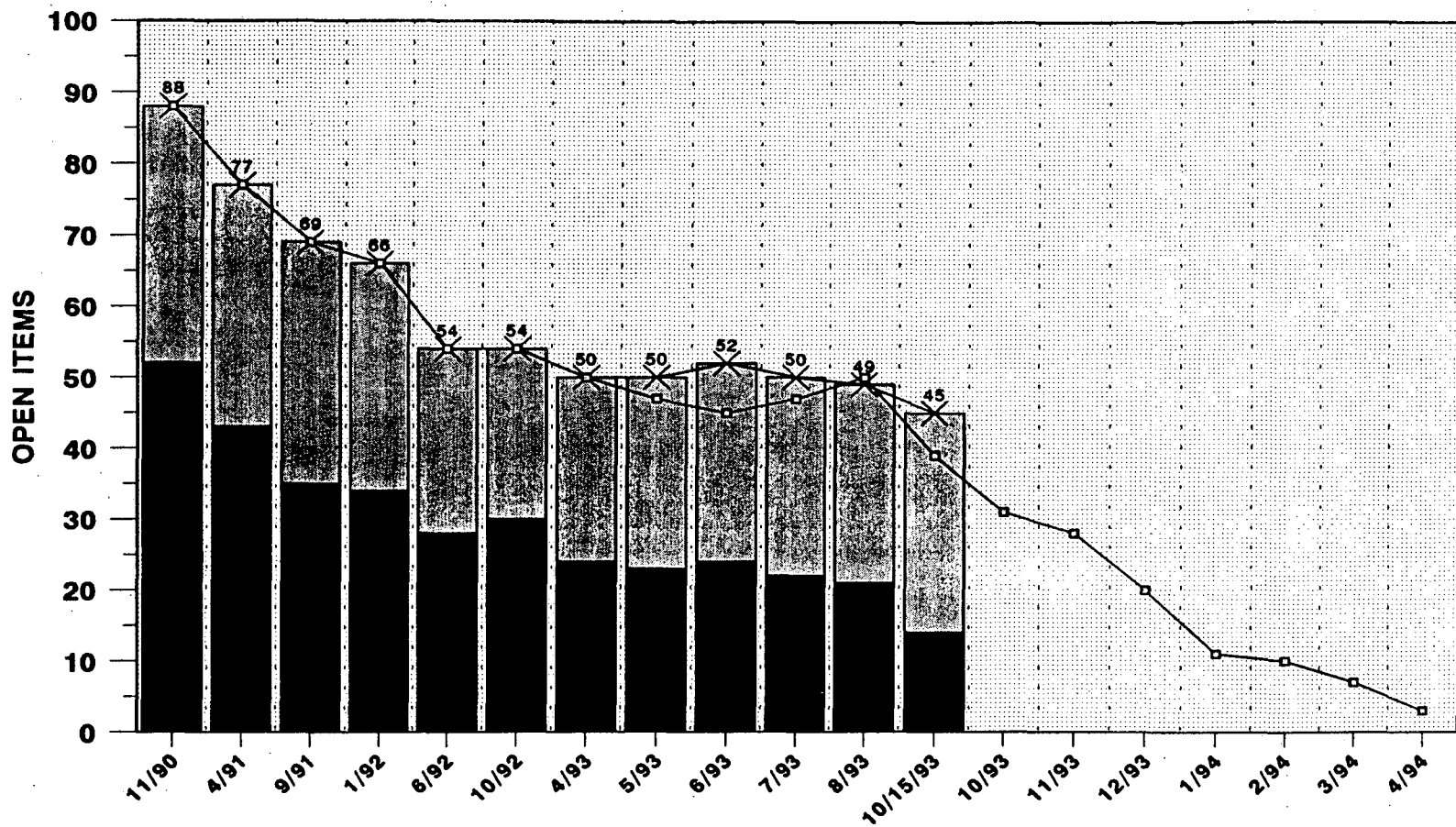
# **CORRECTIVE ACTION PROGRAMS/SPECIAL PROGRAMS (CAP/SP)**

- **17 CORRECTIVE ACTION PROGRAMS/11 SPECIAL PROGRAMS**
- **19/28 (68%) CAP/SP 75% MILESTONES ARE COMPLETE**
- **8/28 (29%) CAP/SP 100% MILESTONES ARE COMPLETE**
- **RECENT SUCCESSFUL INSPECTIONS**
  - MIC
  - "Q" LIST
  - QA RECORDS

VI. OPEN ITEM STATUS

TVA-PANNELL

# NRC-NRR TAC CLOSURE NRC/TVA ACTIONS



NRC ACTION		36	34	34	32	26	24	26	27	28	28	28	31							
TVA ACTION		52	43	35	34	28	30	24	23	24	22	21	14							
TOTAL TAC ITEMS OPEN		88	77	69	66	54	54	50	50	52	50	49	45							
TOTAL TAC ITEMS PLAN		88	77	69	66	54	54	50	47	45	47	50	39	31	28	20	11	10	7	3
		SSER 5	SSER 6	SSER 7	SSER 8	SSER 9	SSER 10	SSER 11			SSER 12		SSER 13				SSER 14			

# NRC REGION II OPEN ITEMS

**CURRENT NRC REGION II OPEN ITEMS 340**

## **OPEN ITEM CLOSE-OUT AFFECTED BY:**

- SYSTEM TIES 173**
- CAP PROGRAMMATIC/HARDWARE 85**
- PROGRAMMATIC ISSUES 48**
- AREA TURNOVER 16**
- NEW ISSUES NOT YET CATALOGED 18**

**VII. EMPLOYEE CONCERNS SPECIAL PROGRAM  
LOOKBACK REVIEW**

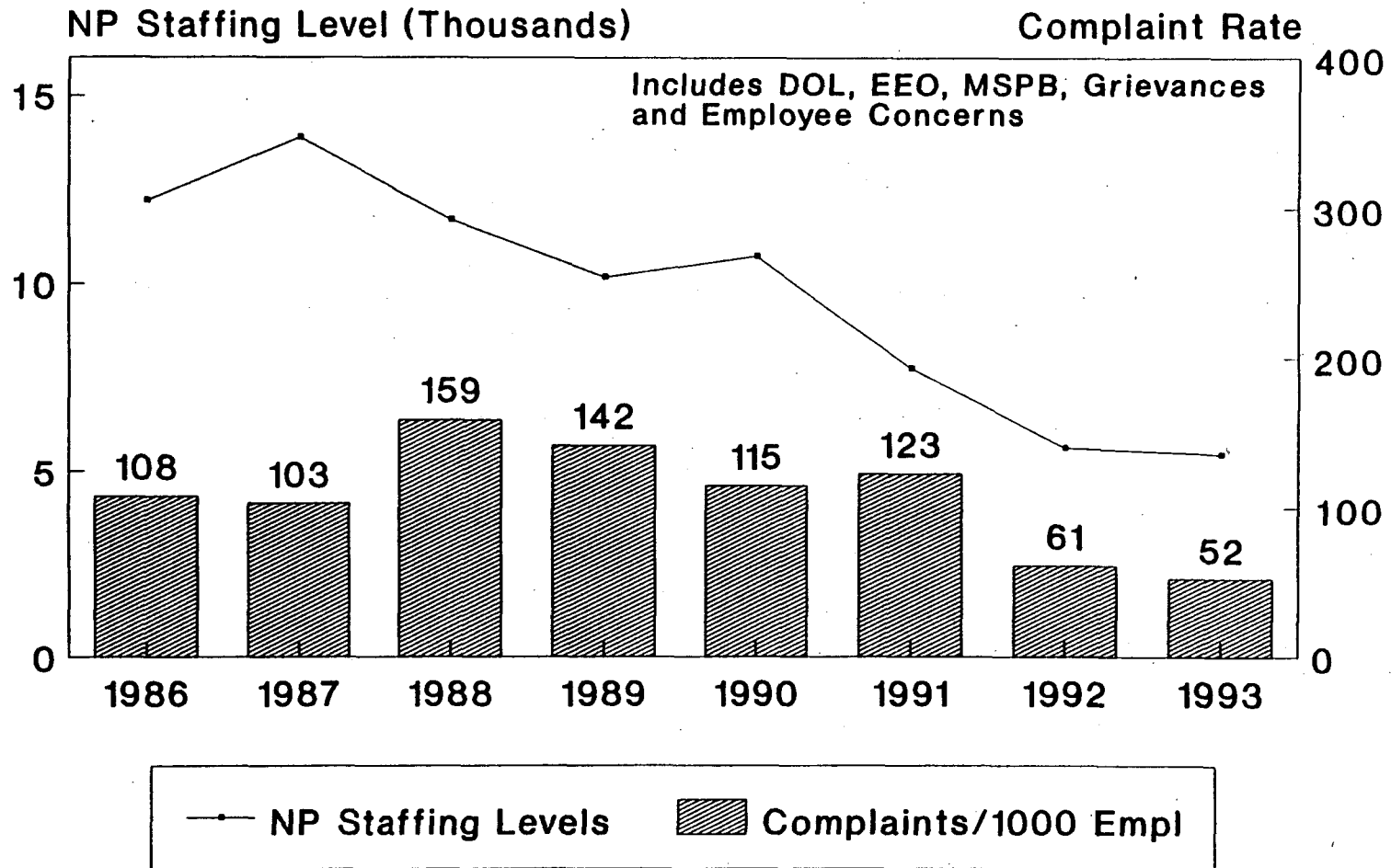
**TVA-MEDFORD/CAPOZZI**



## TWO ELEMENTS OF PROGRAM

- ◆ EMPLOYEE CONCERNS SPECIAL PROGRAM  
CONCERNS EXPRESSED BEFORE 2/1/86
  
- ◆ CONCERNS RESOLUTION PROGRAM  
CONCERNS EXPRESSED AFTER 2/1/86

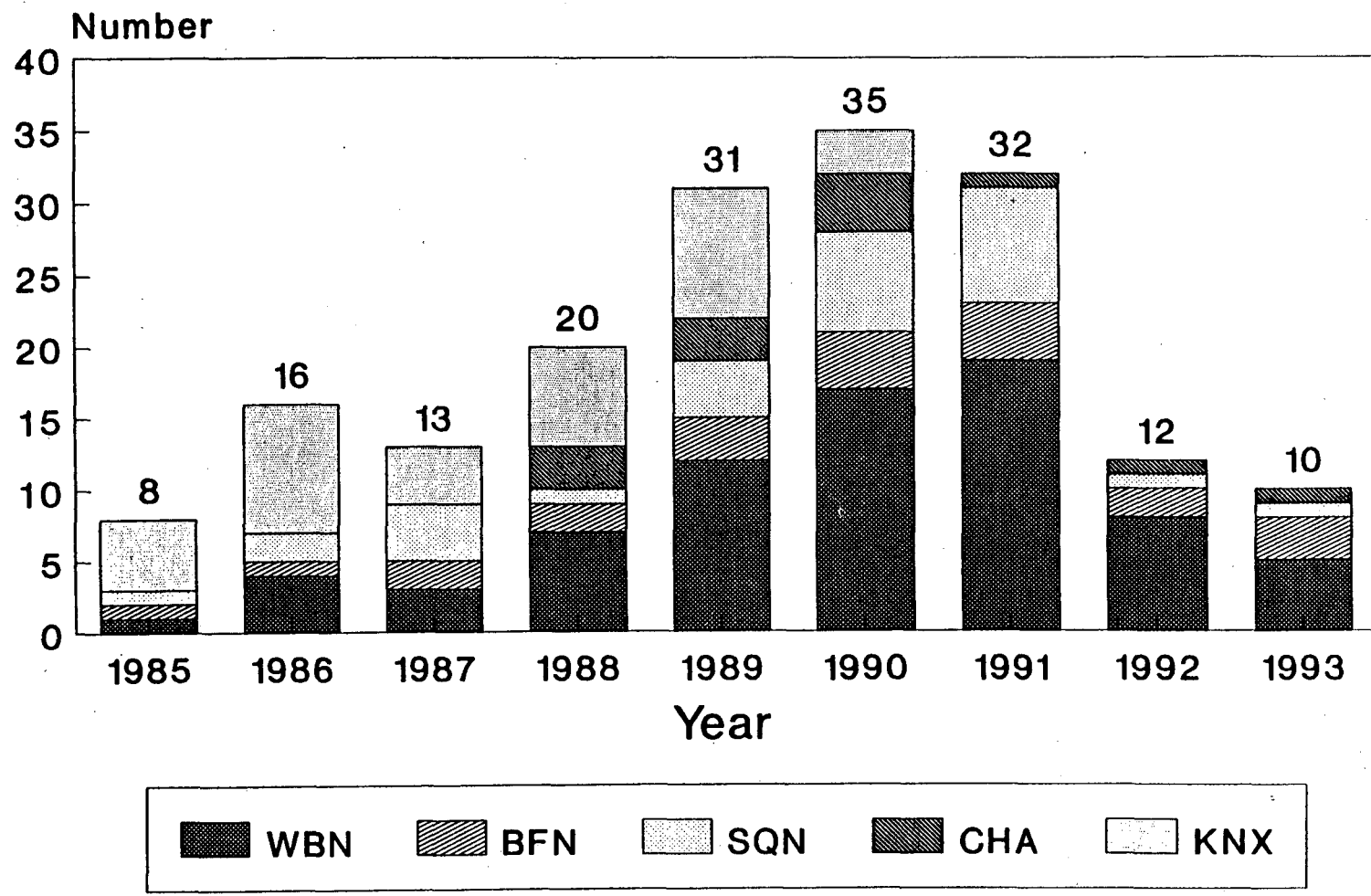
# Total Complaints Rate per 1000 Employees



MSPB, EEO, Grievance Data Not Available For 1988

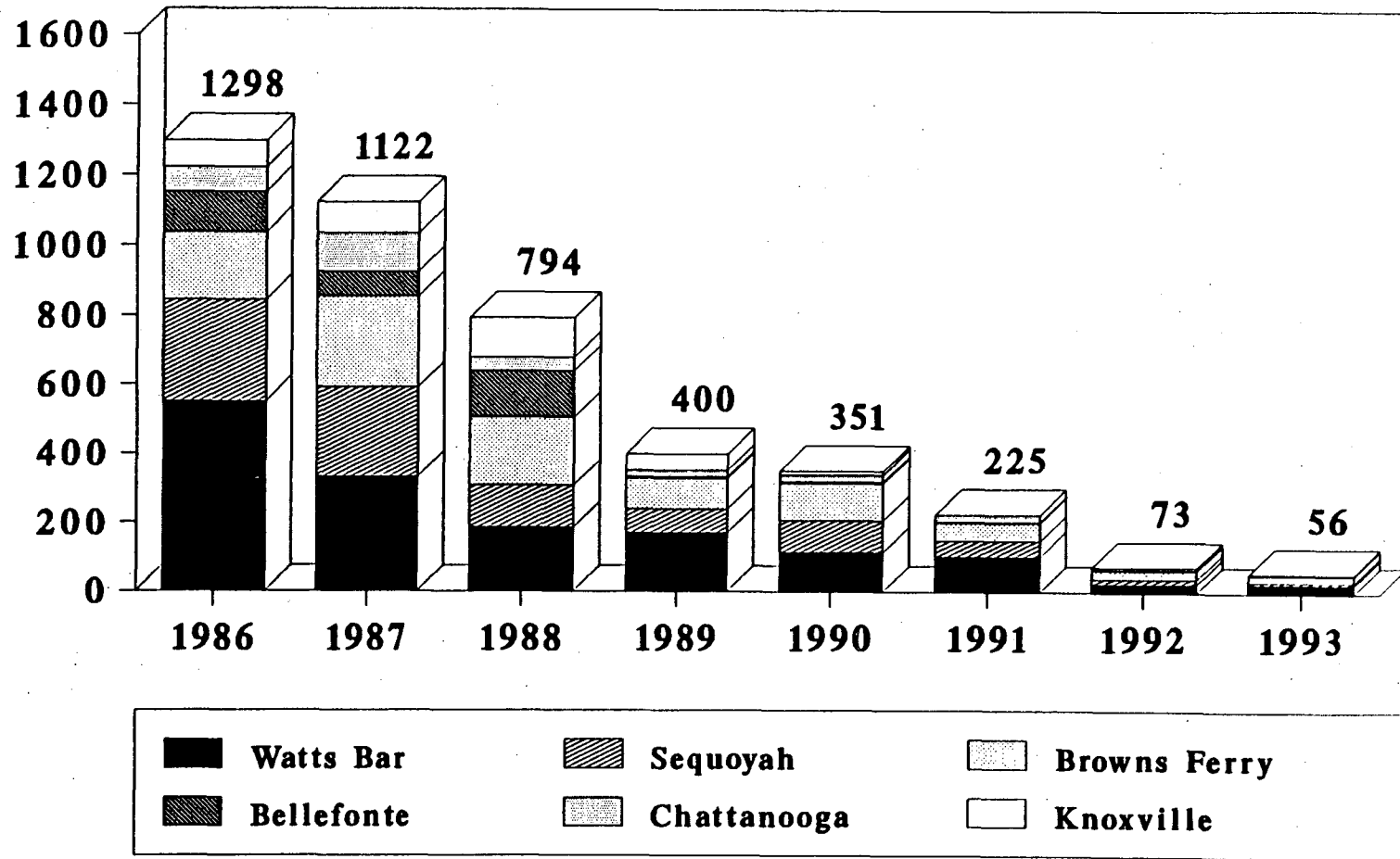
As of 9/30/93

# DOL 210 COMPLAINTS FILED By Location



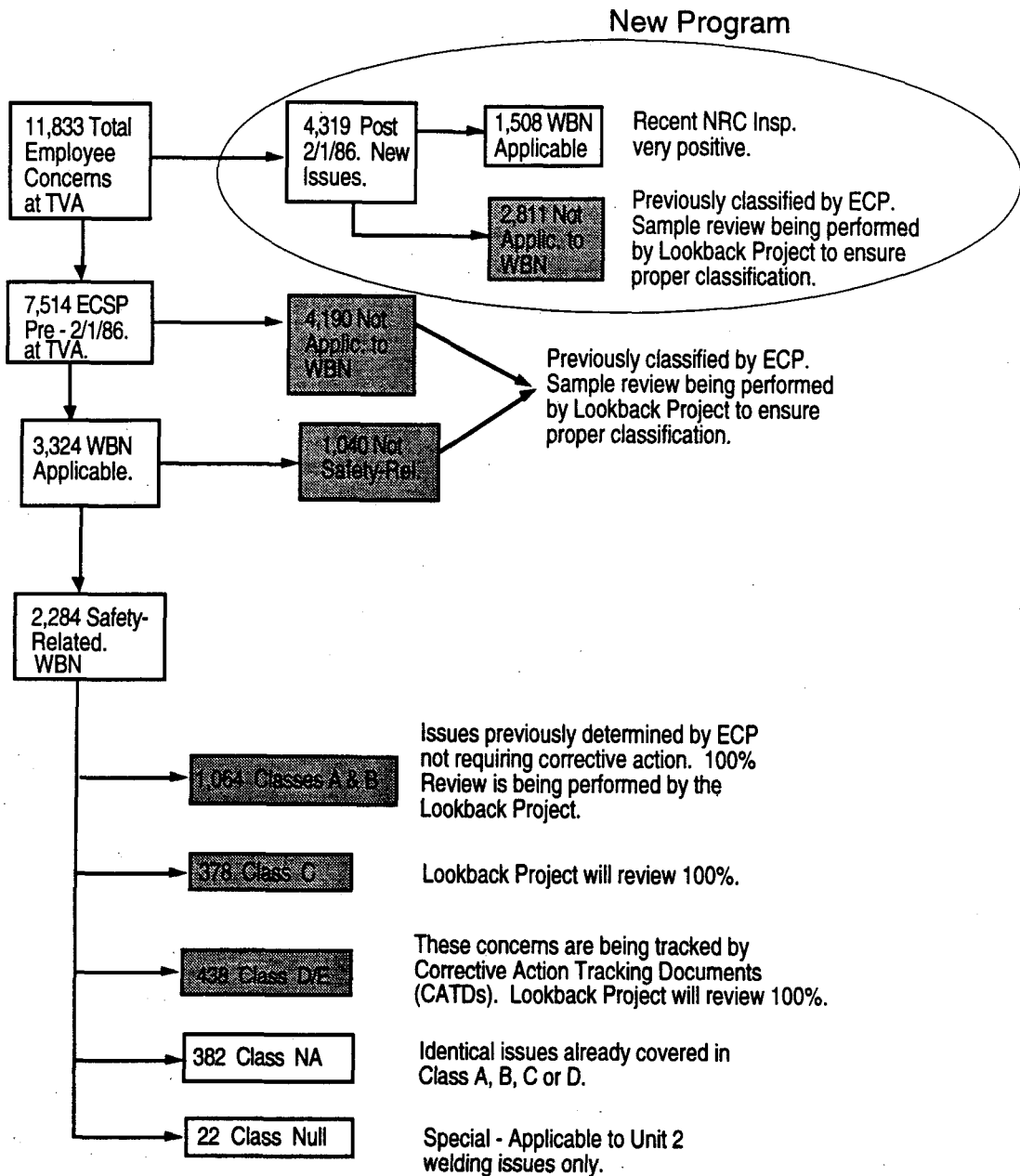
As of 9/30/93

# Concerns Resolution Issues By Location



As of 9/30/93

## SUMMARY OF EMPLOYEE CONCERNS AT TVA



ECP - Employee Concern Program
ECSP - Employee Concern Special Program
Class A - Issue not factual
Class B - Issue factual, but not a problem
Class C - Issue factual, corrective action ongoing prior to investigation
Class D - Issue factual, corrective action necessary; tracked by CATDs
Class E - Concern emerging from investigation of other concerns, tracked by CATDs
<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> - Lookback Project Scope.

# **EMPLOYEE CONCERN SPECIAL PROGRAM (ECSP) LOOKBACK REVIEW STATUS**

- **PROJECT PLAN ISSUED FOCUSING ON HARDWARE**
- **PROTOTYPE REVIEW OF 72 CLASS C, D, AND E CONCERNS COMPLETED SEPTEMBER 30, 1993**
- **PROTOTYPE RESULTS**
  - NO HARDWARE PROBLEMS FOUND
  - NO PROBLEMS FOUND WITH THE HANDLING OF "C" CONCERNS
  - PC DATA BASE LINKS ORIGINAL EMPLOYEE CONCERN TO END PRODUCTS
- **REVIEW TO BE COMPLETE BY APRIL 1994 EXCEPT FOR WORK IN PROGRESS**

**VIII. CLOSING REMARKS**

**NRC/TVA-MURLEY/NUNN**