

MAR 12 1993

*Official
Copy*

Docket Nos.: 50-390 and 50-391
License Nos.: CPPR-91 and CPPR-92

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford, Vice President
Nuclear Assurance, Licensing & Fuels
3B Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Gentlemen:

SUBJECT: MEETING SUMMARY, MARCH 4, 1993

This refers to the meeting conducted at the Watts Bar Site on March 4, 1993. The purpose of the meeting was to discuss the status of ongoing and planned activities at Watts Bar. A list of attendees and a copy of your handout are enclosed.

It is our opinion that this meeting was beneficial in that it provided an understanding of the actions you are taking and plan to take with respect to future work at Watts Bar.

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

Should you have any questions concerning this matter, please contact us.

Sincerely,

(Original signed by J. Johnson)

Ellis W. Merschoff, Director
Division of Reactor Projects

Enclosures:

1. List of Attendees
2. Handout

cc w/encls: (See page 2)

9303300193 930312
PDR ADOCK 05000390
P PDR

TA 3

*TEAS
11
FEOT*

MAR 12 1993

Tennessee Valley Authority

2

cc w/encls:

J. B. Waters, Director
Tennessee Valley Authority
ET 12A
400 West Summit Hill Drive
Knoxville, TN 37902

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

W. J. Museler
Vice President, Watts Bar Site
Tennessee Valley Authority
P. O. Box 800
Spring City, TN 37381

M. J. Burzynski, Manager
Nuclear Licensing and
Regulatory Affairs
Tennessee Valley Authority
3B Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

G. L. Pannell
Site Licensing Manager
Watts Bar Nuclear Plant
Tennessee Valley Authority
P. O. Box 800
Spring City, TN 37381

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

General Counsel
Tennessee Valley Authority
400 West Summit Hill Drive
ET 11B 33H
Knoxville, TN 37902

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

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

M. H. Mobley, Director
Division of Radiological
Health
T.E.R.R.A. Building, 6th Floor
150 9th Avenue North
Nashville, TN 37219-5404

A. Harris

bcc w/encls: (See page 3)

MAR 12 1993

Tennessee Valley Authority

3

bcc w/encls:

E. W. Merschhoff, DRP/RII

P. E. Fredrickson, DRP/RII

B. M. Bordenick, OGC

M. S. Callahan, GPA/CA

A. F. Gibson, DRS/RII

B. S. Mallett, DRSS/RII

P. A. Taylor, DRS/RII

G. C. Lainas, NRR

F. J. Hebdon, NRR

L. C. Plisco, OEDO

P. S. Tam, NRR

V. Nerses, NRR

NRC Document Control Desk

J. Johnson, DRP/RII

NRC Resident Inspector

U. S. Nuclear Regulatory Commission

Route 2, Box 700

Spring City, TN 37381

DRP/RII

BLittle:vyg

03/9/93

DRP/RII

PFredrickson

03/12/93

ENCLOSURE 1.

LIST OF ATTENDEES

NRC

S. D. Ebnetter, Regional Administrator, Region II (RII)
G. C. Lainas, Assistant Director for Region II Reactors, Office of Nuclear
Reactor Regulation (NRR)
F. J. Hebdon, Director, Project Directorate II-4, NRR
E. W. Merschhoff, Director, Division of Reactor Projects (DRP), RII
A. F. Gibson, Director, Division of Reactor Safety, RII
B. S. Mallett, Deputy Director, Division of Radiation Safety and Safeguards
RII
P. S. Tam, Senior Licensing Project Manager, NRR
V. Nerses, Deputy Director Project, Directorate II-4, NRR
P. E. Fredrickson, Chief, Section 4B, DRP, RII
G. A. Walton, Senior Resident Inspector, Watts Bar, DRP, RII

TVA, Watts Bar Nuclear Plant

W. J. Museler, Site Vice President
P. L. Pace, Compliance Licensing Manager
G. L. Pannell, Site Licensing Manager
R. M. Eytchison, OPS Readiness Manager
J. D. Christensen, Site Quality Manager
N. C. Kazanas, Vice President, Completion Assurance
D. L. Koehl, Technical Support Manager
M. Bellamy, Startup Manager
W. Elliott, Engineering Manager
J. Chardos, Project Manager
R. E. Lewis, Quality Assurance Records Project Manager

SYSTEM RELEASES SCHEDULE SUMMARY

-Based upon the October 1992 schedule-

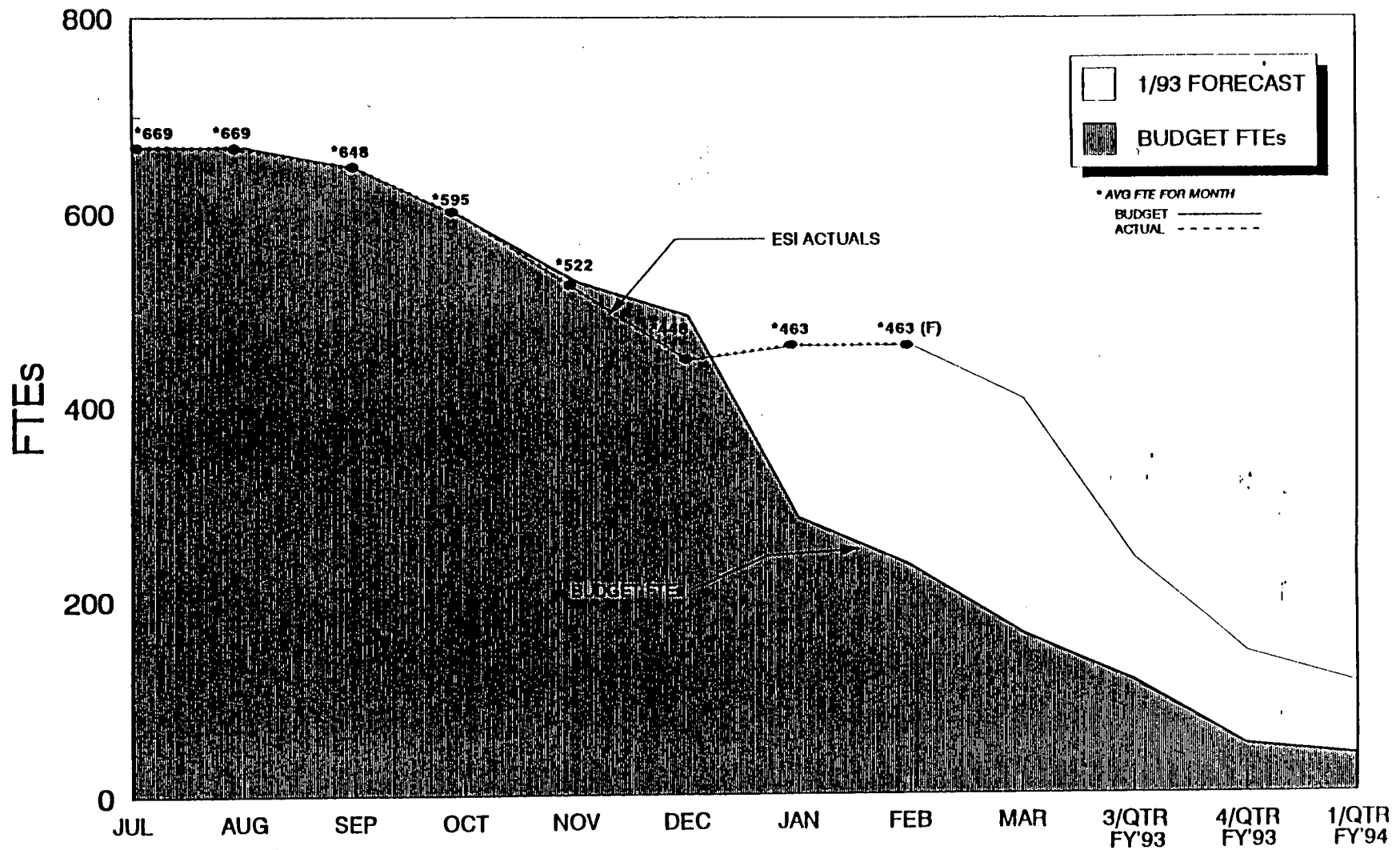
Discipline	System Releases Scheduled W/E 02/28/93	Total System Releases Actual W/E 02/28/93	Delta
Engineering	121	122	+1
Modifications	78	59	-19
Maintenance	73	59	-14
Start Preop	21	14	-7
SUT Complete	27	24	-3
Plant Acceptance	27	23	-4

NOTE: The System Releases Schedule Summary is based upon the October 1992 schedule; does not reflect any SCN(s) which may have been approved.

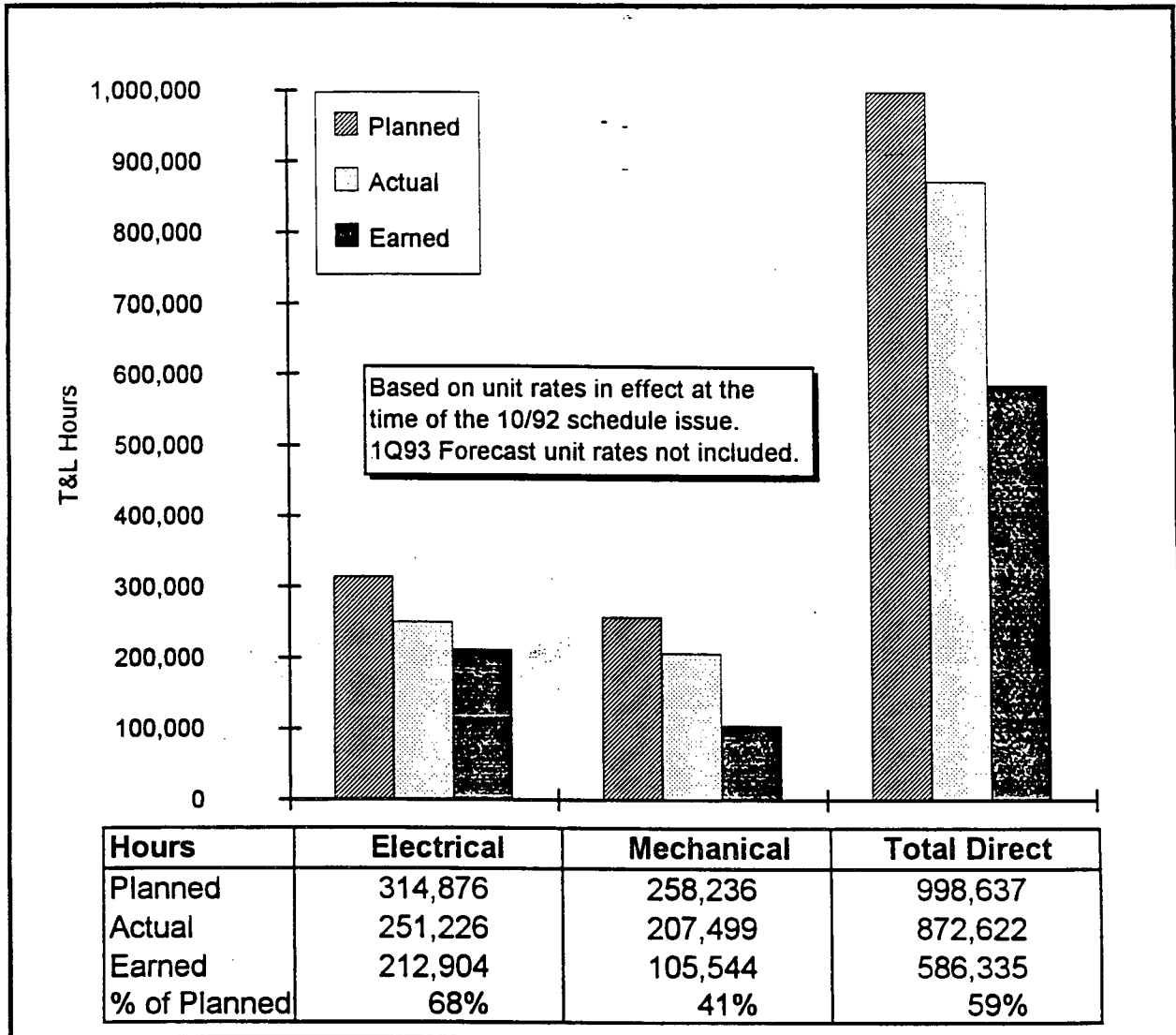
SYSTEM 62 (CVCS) IS CURRENTLY 66 DAYS BEHIND THE 10/92 PROJECT SCHEDULE. IT IS ONE OF THE THREE PRIMARY CRITICAL PATHS TO FUEL LOAD. A SIGNIFICANT PORTION OF CVCS IS REQUIRED FOR OVT.

EBASCO ENGINEERING UNIT-1 MANPOWER FORECAST

March 1, 1993



MODIFICATIONS
SCHEDULE PERFORMANCE TO THE 10/92 SCHEDULE
 (Period of 10/1/92 - 2/14/93)

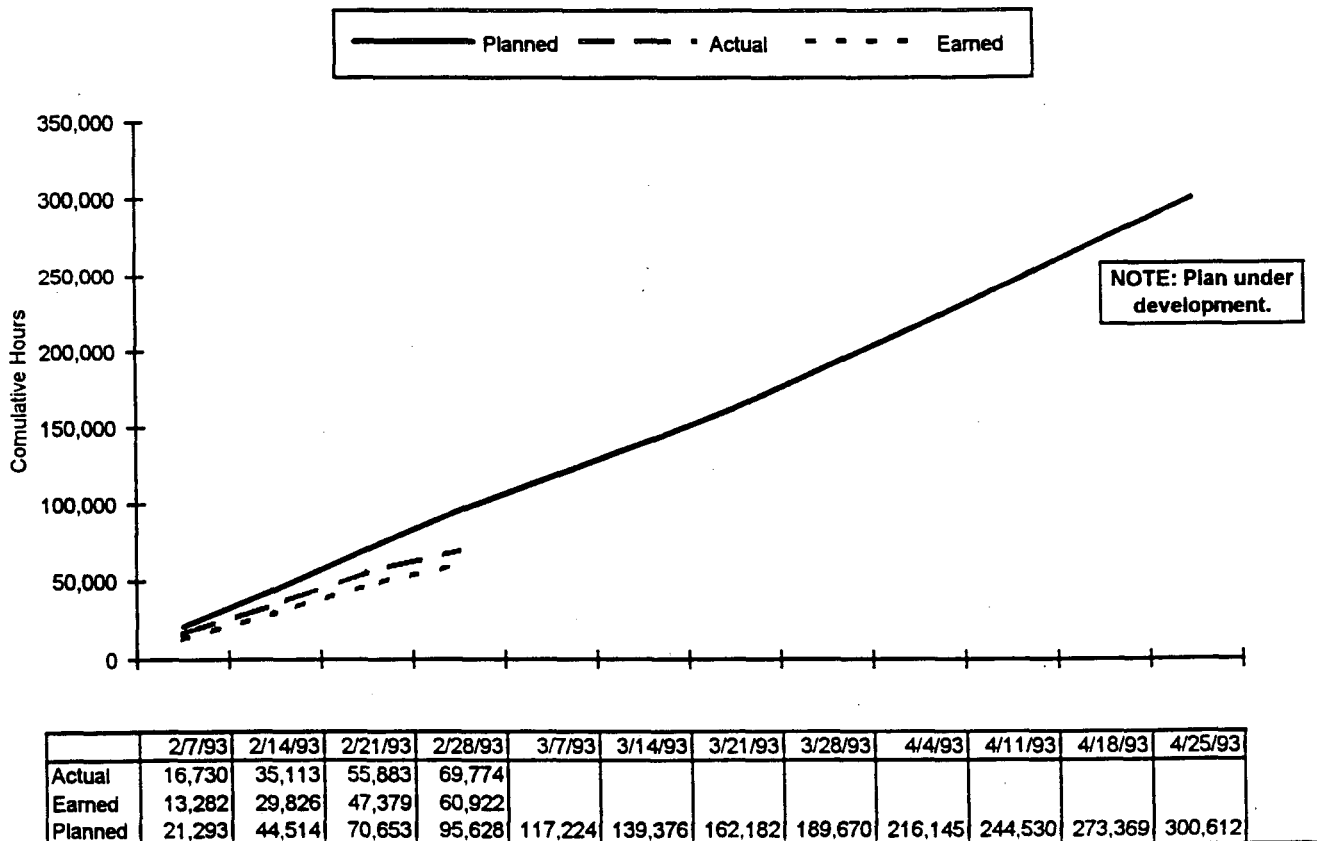
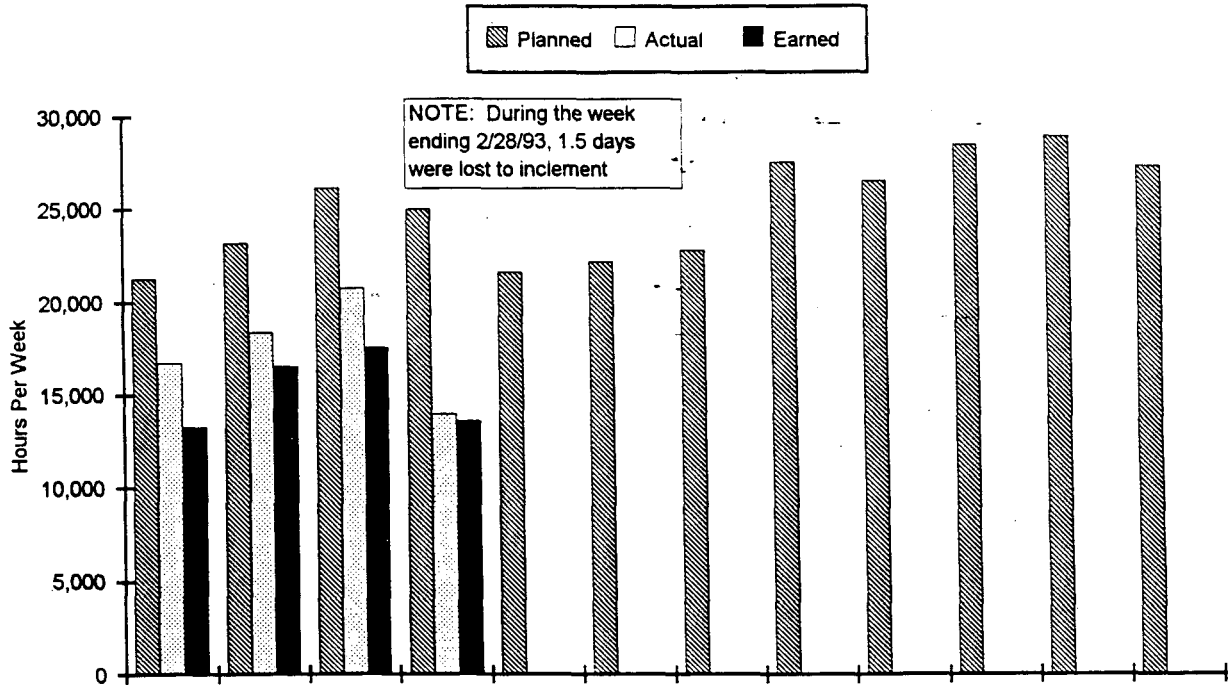


SCHEDULE PERFORMANCE
(TO THE 10/92 SCHEDULE)

Based on Earned vs Planned Hours = 11.5 Weeks Behind

Based on Critical Path Analysis
 (System 62) = 9.5 Weeks Behind

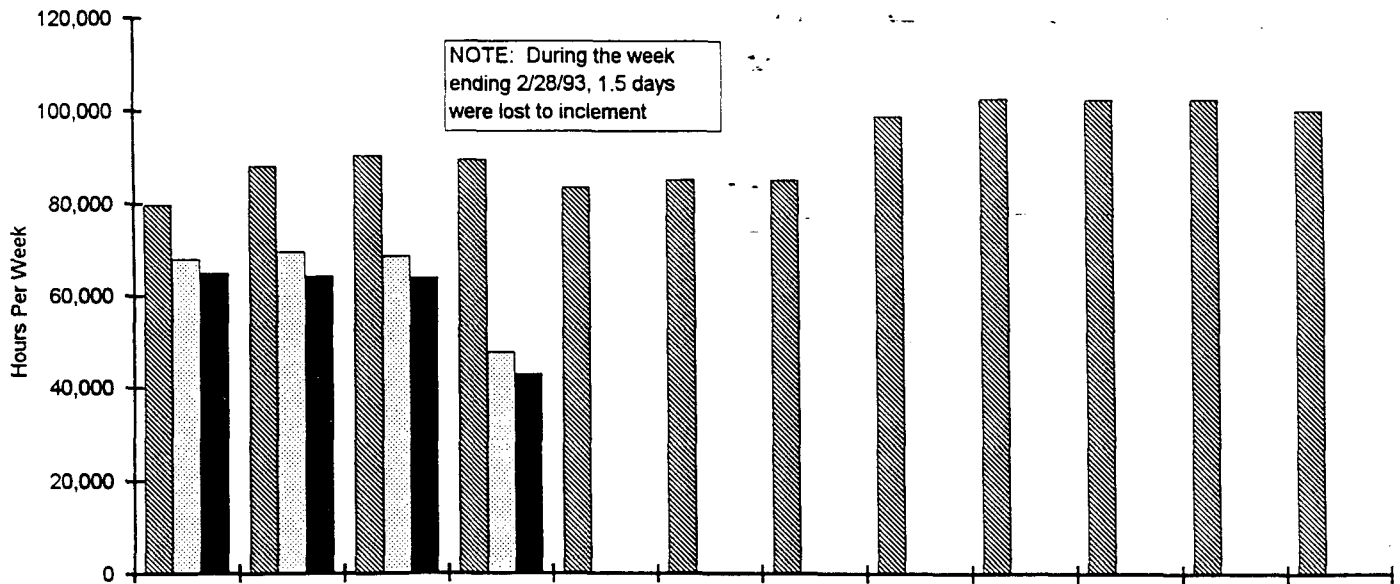
ELECTRICAL TASKS TREND - DIRECT WORK



PERFORMANCE TREND - UNIT 1 TOTAL

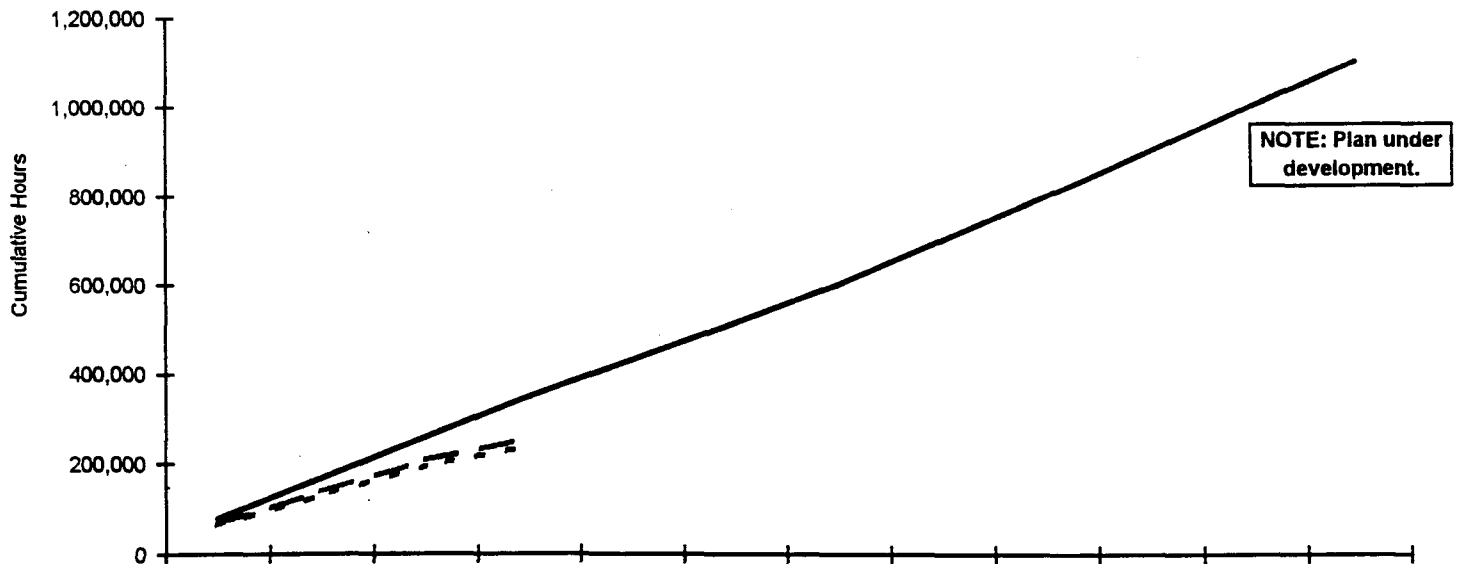
NOTE: Includes all walkdowns and work support.

Planned Actual Earned



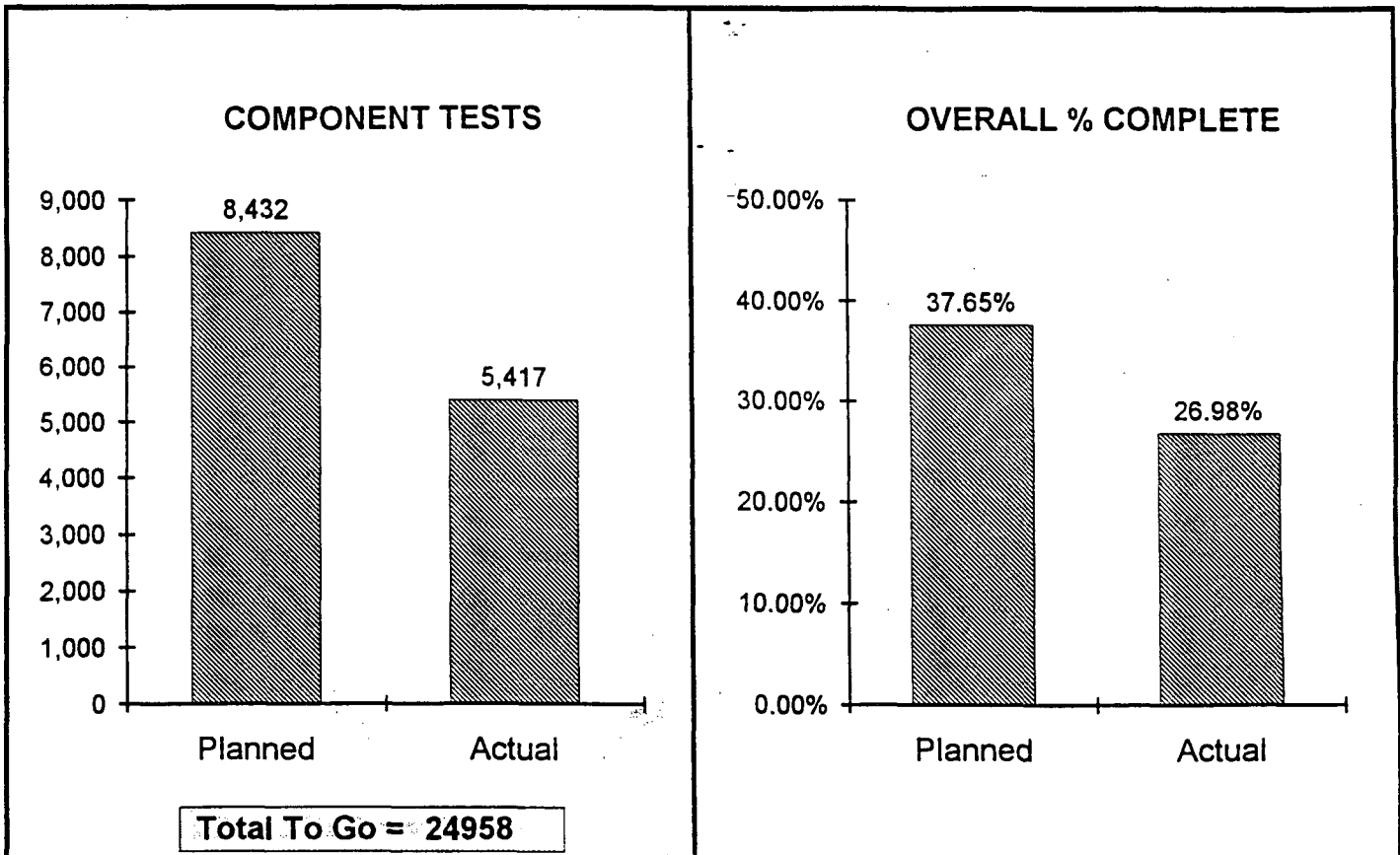
	2/7/93	2/14/93	2/21/93	2/28/93	3/7/93	3/14/93	3/21/93	3/28/93	4/4/93	4/11/93	4/18/93	4/25/93
Actual	68,039	69,764	68,697	47,445	0	0	0	0	0	0	0	0
Earned	65,170	64,366	64,054	42,692	0	0	0	0	0	0	0	0
Planned	79,827	88,169	90,421	89,469	83,448	85,116	85,077	98,736	102,507	102,375	102,500	100,175

Planned Actual Earned



	2/7/93	2/14/93	2/21/93	2/28/93	3/7/93	3/14/93	3/21/93	3/28/93	4/4/93	4/11/93	4/18/93	4/25/93
Actual	68,039	137,803	206,500	253,945								
Earned	65,170	129,536	193,590	236,282								
Planned	79,827	167,996	258,417	347,886	431,334	516,450	601,527	700,263	802,770	905,145	1,007,645	1,107,820

STARTUP AND TEST
SCHEDULE PERFORMANCE TO THE 10/92 SCHEDULE
 (Period of 10/1/92 - 2/28/93)



SCHEDULE PERFORMANCE
(TO THE 10/92 SCHEDULE)

Component Tests

- Based on Actual vs Planned Tests = 5.3 Weeks Behind

Preop Test Starts

- Based on Actual vs Planned Tests = 4.7 Weeks Behind

Overall Startup Program

- Based on Earned vs Planned Hours = 6.4 Weeks Behind

(Includes scoping, procedures, component tests, flushing, preop tests, and closure.)

PLANT STATUS

A. EMERGENCY OPERATING PROCEDURES

- **Most Current WOG Revision (1B)**
- **Tabletop Review Complete**
- **Validated on Simulator**
- **Comments Incorporated - Procedures to be Approved by 3/31/93**
- **Tentative Inspection Schedule and Approach Coordinated with Region II**

B. STATUS OF TURNED OVER SYSTEMS

- **Condition of Systems**
- **Outstanding Punchlist Items**

EFFECTIVENESS OF OVERSIGHT

A. MAJOR FOCUS AND PRIORITY OF CURRENT ACTIVITIES ARE CAPs/SPs

- **High Level of Activity Verifying Readiness for 75% Inspection. 13 Major Audits/Assessments are Scheduled Between January and March 1993**
- **A Total of 7 FIRs, 7 COTS, and 18 Recommendations Have Been Issued. Significant Issues Identified:**
 - **Missing and Incomplete Engineering Output Documents**
 - **Inadequate Program Descriptions**
 - **Insufficient Field Work Completion**
 - **Incomplete Documentation for CAQ and Commitment Closures**
 - **Inadequate Records**
- **Site Quality Does Not Allow 75% Readiness to be Declared Until Assessment/Quality Issues are Resolved.**
 - **MIC**
 - **Instrument Lines**

**EFFECTIVENESS OF OVERSIGHT
(CONTINUED)**

**B. SUBSTANTIAL COVERAGE CONTINUES IN ADDITION TO
CAPs/SPs**

- **Assessments Since January 1993**
 - **Material Issue**
 - **Cable Calculations**
 - **Workplan Closure**
 - **SUT Management Assessment Closure**
 - **Operations Shift Turnover and Relief**
 - **Equipment Labeling and Operator Aids**
 - **Fuse Control**
 - **Freeze Protection Plan**
 - **Monthly CAQ Closure**
 - **PTI 211**
 - **Work Order Compliance**
 - **Receipt and Storage of Materials**
 - **Secondary Hydro Prerequisites**
 - **PTI 200**
 - **Clearance and Tagging Procedures**
 - **Material Receipt and Control (underway)**
 - **Unit 2 PM Scheduling Activities (underway)**
 - **Protective Coatings (underway)**
 - **PTI 236 (underway)**
 - **DCN/Workplan Closure and SPAE II, System 211 (underway)**
- **Audits Conducted Since January 1993**
 - **CATD Program**
 - **ASME III QA Program**
- **Continuous Sampling Review Program for Workplans/Work Orders**

EFFECTIVENESS OF OVERSIGHT (CONTINUED)

- **A Total of 12 FIRs, 7 COTS, and 18 Recommendations Have Been Issued. Significant Issues are Being Identified:**
 - **Degrading Workplan/Work Order Program**
 - **Discrepancies in Operator Aids and Equipment Labeling Programs**
 - **Safety-Related Work Identified as Nonsafety-Related, Work Done With No QC Inspection**
 - **Procurement Engineering Quality Level Classification Discrepancies**

C. THINGS WE ARE DOING WELL

- **Quality Control Program**
- **Quality Indicators**

D. IMPROVEMENTS TO OVERVIEW PROGRAM IDENTIFIED BY SELF-ASSESSMENT

- **Increased Emphasis on Identifying and Recovering First Time Work Activities**
- **Implementation of "Inspector of the Day" Program**
- **Establishment of a Higher Threshold for Acceptable Quality Performance**
 - **Aggressive Identification and Resolution of Problems**
 - **Implementation of a Formal Procedure for Escalated Actions by Site Quality Organization**

QA RECORDS CAP - RECORD PLANS

A. PURPOSE

- **Identify Attributes for Verification of Hardware Installations**
- **Identify Essential Records to Substantiate the Adequacy of Attributes**

B. STATUS

- **All 39 Record Plans Completed and Submitted to NRC**
- **Record Plans Identify the Primary QA Records**
- **Cable Record Plan Declared Ready for Inspection 3/1/93 (Inspection in Progress)**
- **Remaining Record Plans Scheduled for Internal Verification and Preparation for Inspection**
 - **Record Plans Associated with CAPs/SPs will be Ready for Inspection at CAP 75% Milestone**
 - **Non-CAP Record Plans will be Ready for Inspection at Time of QA Records CAP Final Report**

FSAR COMPLETION

- A. AMENDMENTS SCHEDULED APPROXIMATELY EVERY 3 MONTHS**
- B. SPECIAL PROJECT SETUP TO PERFORM COVER-TO-COVER REVIEW**
 - Complete Review for Commitments
 - Complete Review for Consistency with SERs
 - Amendments Submitted as Chapters are Completed
- C. FSAR COMPUTERIZED TO ALLOW THOROUGH/TIMELY REVIEW**
- D. FSAR FIGURE COMPLETION**
 - Chapter 8 to Support Present NRC Review - Next Amendment - End of March
 - All FSAR Chapters - Scheduled for Completion with Required Updated Drawings as Part of the Same Amendment

NRC OPEN ITEMS

- **Current NRC Open Items** 324
- **Projected Open Items from Scheduled Inspections (3+ /inspection)** 180

OPEN ITEM CLOSEOUT AFFECTED BY:

- **System Ties** 236
- **CAP Programmatic/Hardware** 47

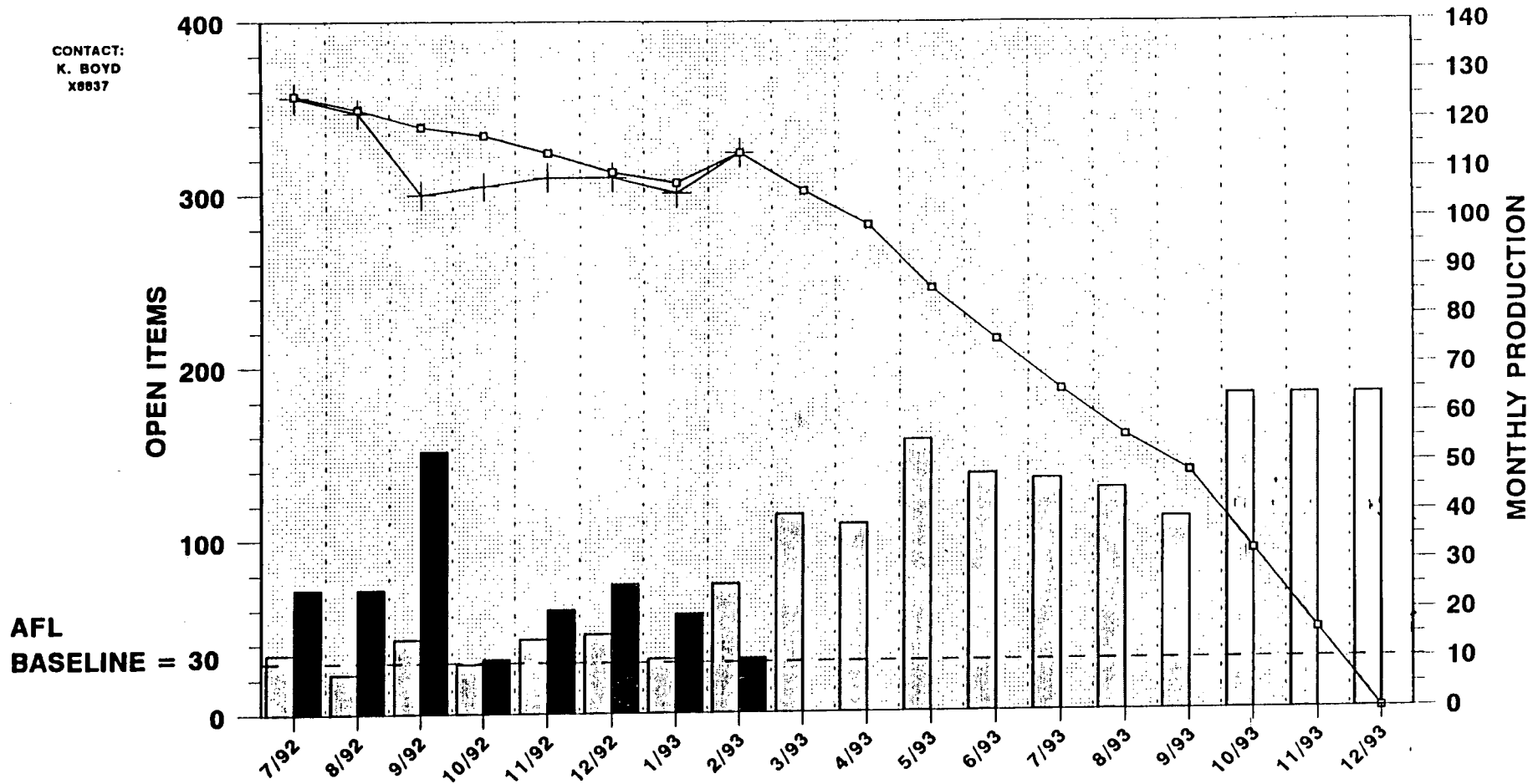
RECOVERY PLAN FOR REMAINING 41 ITEMS

- **Licensing to Take Lead to Identify Closeable Items**
- **Licensing to Prepare Draft Closure Packages for Line Review After Line Organization Resolves Issue**
- **Licensing Assistance to Line Organizations to Resolve Remaining Issues**

NRC OPEN ITEMS WORKOFF CURVE

WBN-LICENSING

CONTACT:
K. BOYD
X8837



PLANNED WORKOFF	357	349	339	334	324	313	307	324	302	282	245	215	186	159	138	92	46	0
ACTUAL TO GO	356	347	300	305	310	310	301	324										
PERIOD PLANNED	12	8	15	10	15	16	11	26	40	38	55	48	47	45	39	64	64	64
PERIOD ACTUAL	25	25	53	11	21	26	20	11										
PERIOD ADDED	12	16	6	16	26	26	11	33	18	18	18	18	18	18	18	18	18	18

NOTE: Period planned includes open items required to support system completion and an assumption rate of 18 open items per month.

**SECURITY UPGRADE PROJECT
RUST ENGINEERING'S PERFORMANCE**





QUALITY CONCERNS

- **AUGUST OF 1992 CONCERNS SURFACED**
 - **Lack of Subcontractor Control**
 - **Safeguards Violation**

- **CONCERNS FED BACK TO BROWNS FERRY**
 - **Similar Concerns Found at BFN**

- **CURRENT WBN QUALITY LEVEL**
 - **100 Percent QC Inspections Since November 1992**
 - **Acceptable QC Inspections Have Averaged 99.3 Percent Since November 1992**

WATTS BAR NUCLEAR PLANT PHYSICAL SECURITY UPGRADE

TASK NAME	START DATE	DURATION	END DATE	1993												1994	
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
RPC INSTALL SECURITY SYSTEM	1/10/92	19.0 W	5/18/93														
RPC COMPONENT TESTS	4/15/93	4.8 W	5/18/93														
BRS TEST SECURITY SYSTEM	5/19/93	18.8 W	9/30/93														
TVA INITIAL SECURITY LOCKDOWN	8/9/93	7.8 W	10/1/93														
TVA FULL SECURITY LOCKDOWN	10/1/93	16.2 W	UNIT 1 FUEL LOAD	