official copy

December 20, 1994

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: MANAGEMENT MEETING SUMMARY

Gentlemen:

On December 1, 1994, the NRC staff met at the Brown Ferry Nuclear Plant offices with representatives of the Tennessee Valley Authority (TVA) management staff to discuss the status of Unit 2 and to discuss the recovery activities and status of Unit 3.

Enclosure 1 is a list of the individuals who attended the meeting and Enclosure 2 is the handout material supplied by TVA.

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 letter, please contact us.

Sincerely,

(Original signed by E. Merschoff)

Ellis W. Merschoff, Director
Division of Reactor Projects

Docket Nos. 50-259, 50-260, 50-296
License Nos. DPR-33, DPR-52, DPR-68

Enclosures: 1. List of Attendees
2. Presentation Notes

cc w/encls: (See page 2)

IE45

cc w/encls:
Mr. O. J. Zeringue, Senior Vice Pres.
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Dr. Mark O. Medford, Vice President
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Mr. D. E. Nunn, Vice President
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Mr. R. D. Machon, Site Vice President
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Chairman
Limestone County Commission
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State Health Officer
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Montgomery, AL 36130-1701

Distribution w/encls: (See page 3)

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Yes No	COPY?	Yes No	Yes No	Yes No	Yes No	Yes No

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LIST OF ATTENDEES

NRC

S. D. Ebneter, Regional Administrator, Region II (RII)
F. J. Miraglia, Deputy Director, Office of Nuclear Reactor Regulation (NRR)
M. S. Lesser, Acting Branch Chief, Division of Reactor Projects (DRP), RII
R. V. Crlenjak, Branch Chief, Division of Reactor Safety, RII
L. D. Wert, Senior Resident Inspector, DRP, RII
R. A. Musser, Resident Inspector, DRP, RII
G. A. Schnebli, Resident Inspector, DRP, RII
F. J. Hebdon, Director Project Directorate II-4, NRR
J. F. Williams, Project Manager, Project Directorate II-4, NRR
K. M. Clark, Senior Public Affairs Officer, Office of Regional Administrator, RII

TVA

O. Kingsley, Jr., President, TVA Nuclear and Chief Nuclear Officer
O. Zeringue, Senior Vice President Nuclear Operations
R. Machon, Vice President Browns Ferry
G. Preston, Plant Manager
D. Stinson, Recovery Manager
T. Abney, Technical Support Manager
T. Shriver, Nuclear Assurance and Licensing Manager
L. Williams, Engineering and Materials Manager
J. Maddox, Maintenance and Modification Manager
R. Moll, Operations Manager
H. Hatton, Outage Manager
M. Harding, Concerns Resolution Coordinaton
F. Corey, Radiation Chemistry Manager
R. Randels, Project Engineering Manager, Bechtel
T. Tohill, Energy Communications
C. Beasley, Energy Communications
P. Salas, Licensing Manager
G. Pierce, Nuclear Operations Staff, Chatanooga

PUBLIC AND MEDIA

P. Darji, General Manager, Days Inn of Athens, AL
R. Dunnaway, Jr., The Birmingham News, Huntsville
K. Middleton, The Decatur Daily, Decatur-Athens
S. Turner, The Athens News Courier
C. Bell, The Huntsville Times

Enclosure 1

TVA/NRC Management Meeting

Status of Unit 3 Recovery

Nuclear Regulatory Commission
Regional Administrative Building

December 1, 1994

ENCLOSURE 2

TVA/NRC Management Meeting Status of Unit 3 Recovery

Nuclear Regulatory Commission
Regional Administrative Briefing

December 1, 1994

TVA

ENCLOSURE 2

AGENDA

I.	Introduction	Rick Machon
II.	Unit 3 Recovery Status	
	- Restart Schedule	Dave Stinson
	- Summary of Commodities	Dave Stinson
	- Completed and Upcoming Milestones	Dave Stinson
	- Regulatory Issues	Pedro Salas
III.	Unit 3 Operational Readiness	
	- SPAE/SPOC	Dave Stinson
	- Unit 3 Recovery QA Plan	Tim Shriver
	- Unit 3 Completion And Operational Readiness Overview	Rick Machon
IV.	Unit 2 Status	
	- Summary Of Cycle 7 Operation	Gene Preston
	- Refueling Outage Overview	Gene Preston
V.	Refueling Outage Challenges	
	- Drywell Head O-Rings	Tim Abney
	- Purge Valve LLRT Failures	Jim Maddox
	- Recirculation Pump Discharge Valve Motor Failure	Lee Williams
	- Debris In Torus	Lee Williams
	- Operational Errors	Bob Moll
VI.	Procedural Adherence	Gene Preston
VII.	Closing Remarks	Rick Machon

I. INTRODUCTION
MEETING OBJECTIVES

- Unit 3 Status
  - Discuss Schedule For Unit 3 Restart And Major Upcoming Activities
  - Summarize Commodities - Installed And Remaining
- Focus On Operational Readiness Review Process For Unit 3 Restart
  - SPAE/SPOC Process
  - Dedicated Unit 3 Quality Assurance Team
  - Nuclear Safety Review Board's Role In Unit 3 Restart
  - Senior Management Assessment Of Restart Team
  - Operational Readiness Review Team
- Summarize Unit 2 Cycle 7 Operation And The Refueling Outage
- Discuss The Major Challenges Of The Refueling Outage

II. UNIT 3 RECOVERY STATUS

- Schedule Supports 100% Power Date Of February 1996

- Summary Of Commodities
  - 498 Of 518 (96%) Design Changes Issued
  - 583 Of 791 (74%) Design Changes Field Complete (Form 83s Issued)
  - 572 Of 901 (63%) Design Changes Closed, Return To Operation (RTOs) Accepted

	Installed	Remaining	90% Complete	100% Complete
Cable (ft.)	474,846 (71%)	194,093	April 95	July 95
Conduit (ft.)	125,497 (81%)	30,314	March 95	July 95
Conduit Supports	11,583 (77%)	3,522	March 95	July 95
Large Hangers	1,602 (89%)	208	Jan 95	May 95
Small Hangers	4,527 (88%)	629	Feb 95	June 95

Data Through 11/27

II. UNIT 3 RECOVERY STATUS (CONT.)
COMPLETED AND UPCOMING MILESTONES

- Major Accomplishments Since September 1994
  - Unit 2 Cycle 7 Work To Support Unit 3 Recovery Completed - October 1994
  - Unit 3 Drywell Mechanical/Civil Work Completed - November 1994

- Major Upcoming Milestones
  - Transition From Bulk Installation To System Completion Mode (January 95)
  - Fire Detection System Upgrades And Fire Protection System Field Work (February 95)
  - Torus Fill/Gate Removal System Field Work Complete (May 95)
  - Pull Condenser Vacuum (September 95)
  - Pull Fuel Pool Gates For Fuel Load (September 95)

II. UNIT 3 RECOVERY STATUS (CONT.)
REGULATORY ISSUES

• Technical Specifications	Expected NRC Issue Date	Need Date
- TS-313, Wide Range Rad Monitors	12/15/94	4/24/95
- TS-318, Conversion To Analog Transmitter/Trip	1/31/95	5/26/95
- TS-319 HPCI/RCIC Temperature Switches	2/28/95	5/29/95
- TS-320, RWCU Temperature Switches	2/28/95	5/3/95
- TS-333, SLC Boron Content	12/30/94	9/8/95
- TS-337, Appendix R License Amendment	TBD	6/6/95
- TS-339, ELLA, Rod Blocks and COLR	1/16/95	9/1/95
- TS-340, Diesel Generator Load Shed	2/3/95	5/20/95
- TS-347T, Shutdown Board Battery AOT	12/9/94	12/9/94
- TS-349, RPV Bolt-Up Temperature (PTLR) - TVA Expected Submittal Date 4/30/95	TBD	Restart
- TS-355, Revise IRM/APRM Surveillance Frequency - TVA Expected Submittal Date 4/30/95	TBD	Restart

II. UNIT 3 RECOVERY STATUS (CONT.)
REGULATORY ISSUES (CONT.)

	Expected Submittal Date
• Submittals	
- Appendix R - Fire Protection Report Supplement	12/15/94
- Unit 3 Corrective Action Tracking Documents	12/15/94
- Unit 3 RPV Beltline Inspection Report	1/20/95
- Update Units 1 And 3 Operational Readiness Program	1/24/95
- EQ Certification	Prior To Restart
- Code Relief - Unit 3 Weld Overlays	4/95
- Code Relief - Hydrostatic Tests N498.1 And N416.1	4/95
• SERs	
- Appendix R	
- Containment Isolation Dependability	

II. UNIT 3 RECOVERY STATUS (CONT.)
REGULATORY ISSUES (CONT.)

- CATDs
  - 513 CATDs Issued Against BFN Units 1, 2, or 3
  - 359 BFN Specific
  - 154 Non-Plant Specific

- All 513 CATDs Apply to Unit 3

- 107 Of The 513 CATDs Are Open For Unit 3

- Intend To Close The 107 Open CATDs Prior To Unit 3 Restart

- Exceptions Will Be Addressed On Case-By-Case Basis

II. UNIT 3 RECOVERY STATUS (CONT.)
REGULATORY ISSUES (CONT.)

- Inspections
  - Operational Readiness Assessment Team
  - Appendix R
  - EQ
- Close 218 NRC Commitments (NPP, Generic Letters, NUREG-0737, Bulletins, etc.)
- Close 63 Regional Inspection Items (Violations, URIs, IFIs, LERs, Deviations)

III. UNIT 3 OPERATIONAL READINESS
SPAE/SPOC

- SPAE - System Plant Acceptance Evaluation

- Systematic Process To Establish Configuration Control

- SPAE Addresses
  - Primary/Critical Drawing Restoration And Completion Of Drawing Discrepancies
  - ECN/DCN Closure
  - Issuance Of Essential Calculations
  - Disposition Of PERs And Other Corrective Action Documents
  - Design Basis Compliance
  - Program Review (e.g., EQ, Fire Protection, Electrical/Seismic Issues)
  - Impact On Operating Unit
  - Update Equipment Management System Database
  - Removal Of Unit Separation Boundaries

III. UNIT 3 OPERATIONAL READINESS (CONT.)
SPAE/SPOC (CONT.)

- SPOC - System Pre-Operability Checklist

- Systematic Method To Ensure Completion Of
  - SPAE
  - Testing
  - Modifications
  - Maintenance
  - Licensing Issues (Including NRC Commitments)
  - Procedures
  - Design Completion
  - System Configuration
  - Walkdowns

III. UNIT 3 OPERATIONAL READINESS (CONT.)
SPAE/SPOC (CONT.)

- Phase I SPOC Addresses Return To Service Milestone And Establishment Of System Status Control By Operations

- Phase II SPOC Addresses System Return To Operation In Preparation For System Operability

- 16 Of 63 Planned Phase I SPOCs Successfully Completed

- 9 Of 63 Planned Phase II SPOCs Successfully Completed

III. UNIT 3 OPERATIONAL READINESS (CONT.)
UNIT 3 RECOVERY QUALITY ASSURANCE PLAN

- Purpose - Establish Effective Strategy To Assess And Verify Quality Aspects Of Activities Performed During Unit 3 Recovery

- Three-Phase Methodology

  - Phase I - Scheduled QA Oversight/Observations

  - Phase II - Identification/Evaluation Of Specific Recovery Activities

  - Phase III - Review And Assess TVA Construction Deficiencies For Unit 3 Impact

III. UNIT 3 OPERATIONAL READINESS (CONT.)
UNIT 3 RECOVERY QUALITY ASSURANCE PLAN (CONT.)

Phase I - Scheduled QA Oversight/Observations

- Objective - Provide Normal QA Oversight To Ensure Activities Associated With Power Operations Are Conducted Properly And Meet Quality Requirements

- Activities Performed
  - Assess Multi-Unit Operation
  - Scheduled Performance Evaluation Program Followup
  - Corrective Action Reviews
  - Routine Audits
  - Assessments
  - Document Closure Verification
  - Oversight Of Plant Activities
  - Level I (Windows) Trend Evaluation

Shriver

III. UNIT 3 OPERATIONAL READINESS (CONT.)
UNIT 3 RECOVERY QUALITY ASSURANCE PLAN (CONT.)

Phase II - Identification/Evaluation Of Specific Recovery Activities

- Objective - Identify Unit 3 Recovery-Specific Issues And Evaluate Using Dedicated Resources
- Performed Analysis Of BFN Unit 3 Recovery Activities To Identify Potential Exposure Areas
- Will Assemble Dedicated Team Within Nuclear Assurance To Perform Unit 3 Recovery Specific Assessments
- Dedicated Team Will Perform Identified Unit 3 Assessments In Support Of Unit 3 Startup Schedule And In Concert With Ongoing QA Integrated Verification Plan (IVP)
- Phase II Specific Oversight Activities
  - Design Change Work Document Closure
  - Vertical Slice (2 Systems) - Engineering Design And Construction

III. UNIT 3 OPERATIONAL READINESS (CONT.)
UNIT 3 RECOVERY QUALITY ASSURANCE PLAN (CONT.)

- Phase II Specific Oversight Activities (Continued)
  - EQ
  - Restart Test Program and Power Ascension Testing
  - SI and AOI/EOI Procedure Upgrades
  - Appendix R
  - Maintenance Activities/Support
  - Procurement/Material Control
  - Technical Support Issues
  - Vertical Slice (2 Systems) - Operations, Maintenance, And Testing
  - Erosion/Corrosion
  - Unit 3 Operational Readiness And Multi-Unit Operational Readiness
  - SPOC Phases I and II
  - Design Basis Verification

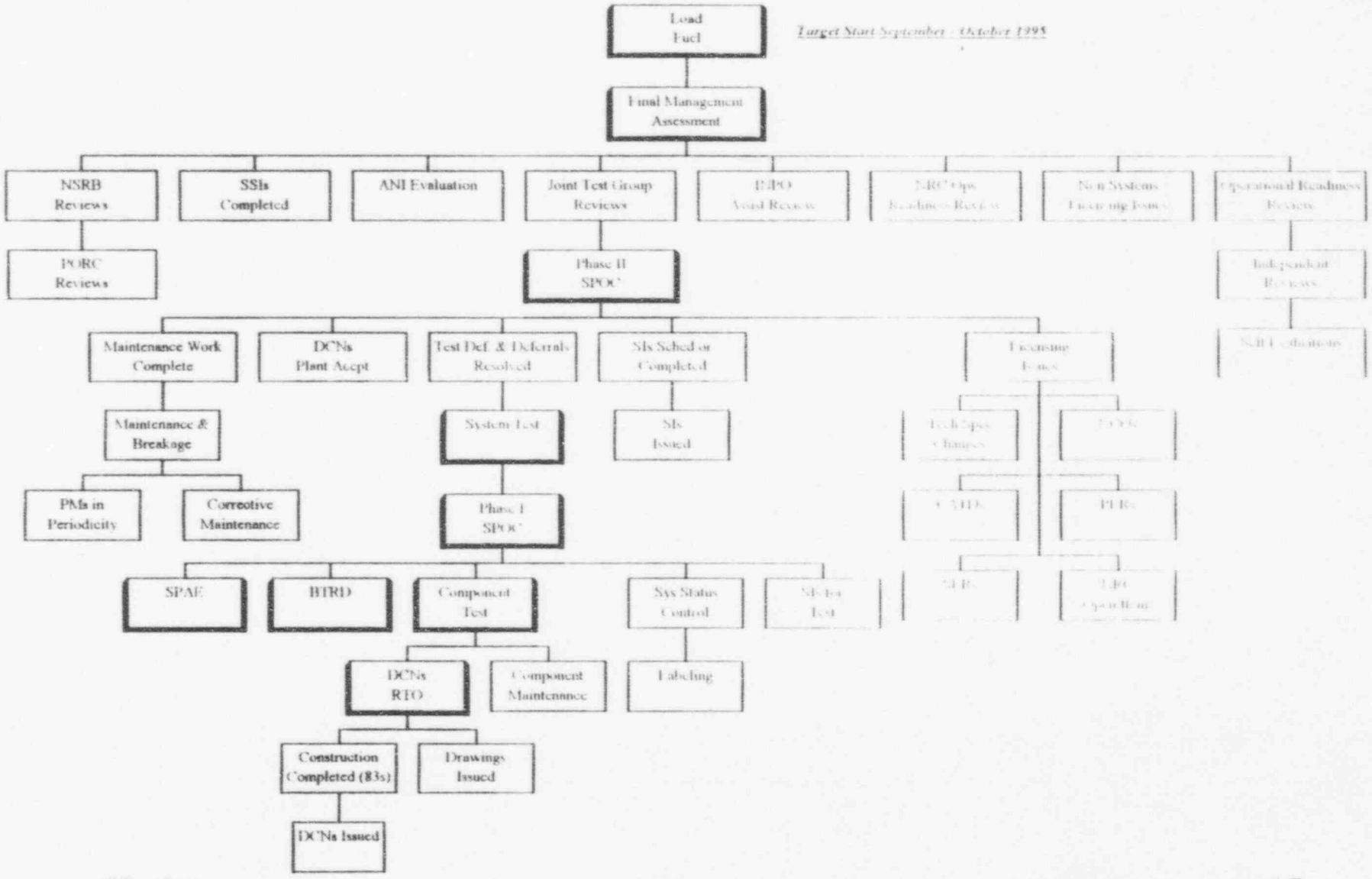
III. UNIT 3 OPERATIONAL READINESS (CONT.)
UNIT 3 RECOVERY QUALITY ASSURANCE PLAN (CONT.)

Phase III - Review And Assess TVA Construction Deficiencies For Unit 3 Impact

- Focused Effort To Ensure Modification Issues Identified At Watts Bar Are Evaluated At BFN
- Review Watts Bar PERs, SCARs, NRC Inspection Reports, And NOVs
- Determine If Condition Identified At Watts Bar Exists At BFN Unit 3
- Evaluate BFN Condition Using Detailed Inspection Plan And Dedicated QA/QC Personnel
- Document BFN Unit 3 Problem And Inspection Results In Closure Package
- Perform TROI Search For Similar BFN Issues
- Cross-Correlate Watts Bar Deficiencies/Inspections/Results With BFN CATDs/NCOs

III. UNIT 3 OPERATIONAL READINESS

III. UNIT 3 OPERATIONAL READINESS (CONT.)
UNIT 3 COMPLETION AND OPERATIONAL READINESS OVERVIEW



IV. UNIT 2 STATUS
SUMMARY OF CYCLE 7 OPERATION

- 315-Day Continuous Run During Cycle And 162-Day Continuous Run To End Cycle
- 95.6% Capacity Factor
- No Fuel Failures
- Unit 2 Cycle 7 Operational Radiation Exposure Significantly Lower Than 1993 Industry Average For BWRs (0.16 Rem/day vs. Industry Average 0.34 Rem/day)
- Second Fiscal Year Without A Lost Time Accident (Currently Over 11.6 Million Man-Hours)

IV. UNIT 2 STATUS (CONT.)
REFUELING OUTAGE OVERVIEW

- Outage Began 10/1/94 With Initial Breaker Closure 11/23/94
- Outage Completed Within 8 Days Of Original Plan
- Full Core Offload
- Licensing Issues Completed
  - RVLIS (Bulletin 93-03)
  - Core Shroud Inspection (GL 94-03)
  - MOV Testing (GL 89-10)
  - Chemical Injection For RHRSW (GL 89-13)

IV. UNIT 2 STATUS (CONT.)
REFUELING OUTAGE OVERVIEW (CONT.)

- Completed Unit 3 Recovery Modifications Requiring Dual-Unit Outage
  - RHR Logic/Common Accident Signal Tie-in For Unit 3
  - Unit 3 Cable Replacement In Unit 2 Operating Spaces
  - Unit 3 Appendix R/EQ Modifications

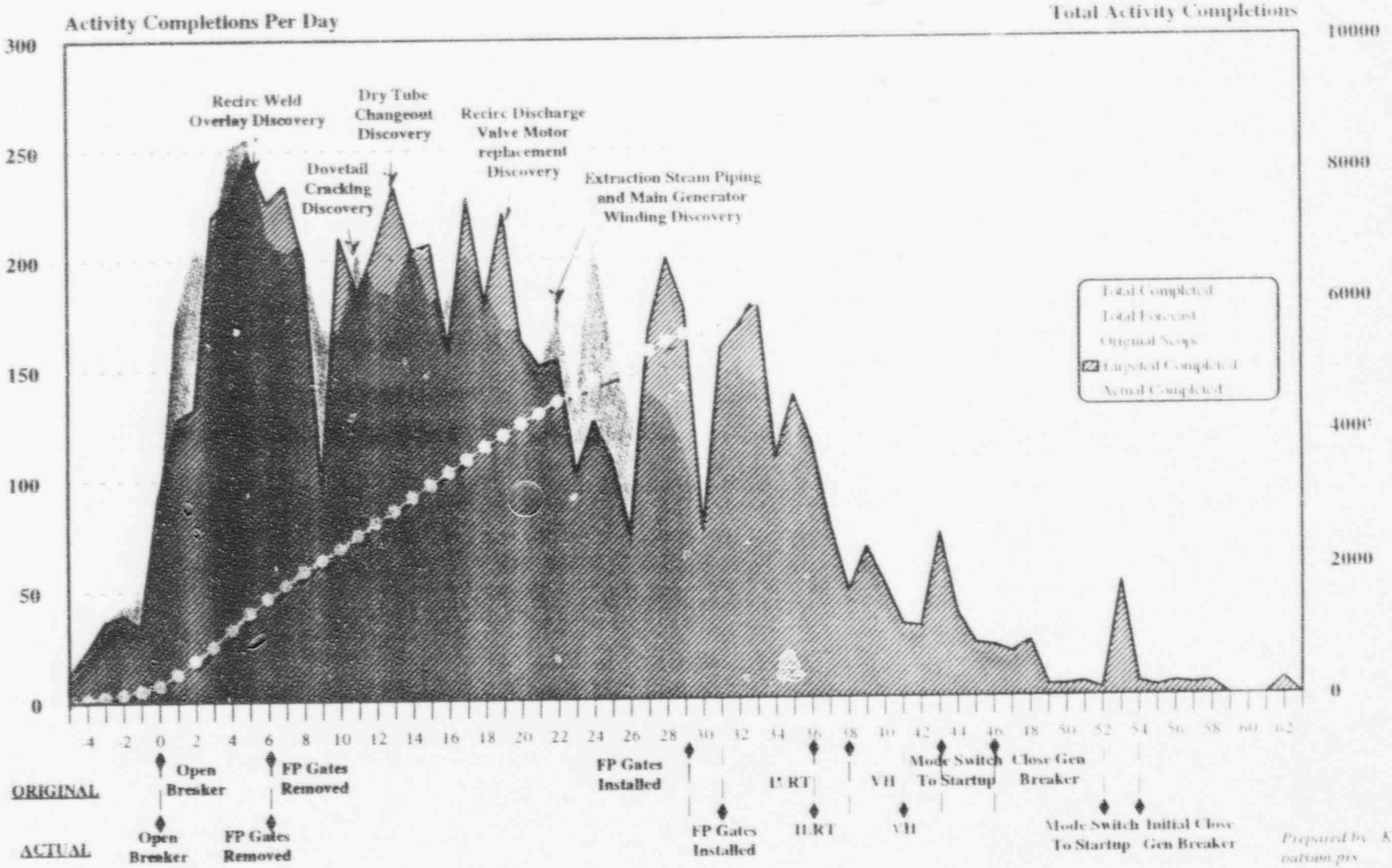
- Major Modifications And Maintenance Activities
  - Condensate Demineralizer System Upgrade
  - Standby Gas Treatment System Damper Modification
  - Main Turbine And Reactor Feedpump Turbine Inspections And Preventive Maintenance
  - Balance Of Plant Erosion/Corrosion Inspections
  - ISI/IVVI
  - SRM/IRM Dry Tube Inspections

IV. UNIT 2 STATUS (CONT.)
REFUELING OUTAGE OVERVIEW (CONT.)

- Major Outage Scope Growth
  - Generator Ground
  - SRM/IRM Dry Tube Replacement
  - Steam Extraction Piping Replacement
  - Recirculation Piping Weld Overlay
  - "B" Low Pressure Turbine Rotor Dovetail Cracking
  - Recirculation Pump Outlet Valve Motor

- Summary Of Work Performed
  - 1289 Preventive Maintenance Items
  - 1260 Maintenance Work Orders
  - 56 Modifications
  - 406 Outage Surveillance Instructions (427 Routine SIs Also Performed)

Browns Ferry Nuclear Plant
U2C7 Refueling Outage
Overall Schedule & Budget Performance



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oatsum.pix

IV. UNIT 2 STATUS (CONT.)
REFUELING OUTAGE OVERVIEW (CONT.)

- Material Condition Improvements
  - Reduced Instruments Out-Of-Service From 5 To 2
  - Completed 20 Furmanite Repairs
  - Reduced Disabled Alarms From 12 To 6
  - Eliminated 21 Sources Of Radwaste Inleakage (Only 7 Remain)
  - Closed 2 Unit 2 And Common TACFs

- Radiation Dose Higher Than Expected
  - Original Outage Goal - 350 Man-Rem
  - Actual Dose - 424 Man-Rem
  - Recontamination Factor 30% Greater Than Estimated
  - Over 34 Additional Man-Rem Due To Outage Scope Growth
  - Plan To Perform Chemical Decon Next Outage

IV. UNIT 2 STATUS (CONT.)
REFUELING OUTAGE OVERVIEW (CONT.)

- Personnel Contamination Events Well Below Outage Goal (0.24/1000 RWP Hours < 0.5/1000 RWP Hours)

- Minimized Use Of Respirators

  - Only 81 Of Over 82,000 RWP Entries Made With Respiratory Protection

  - Only 4 Whole Body Counts Greater Than Administrative Action Level (Highest Internal Dose - 114 mRem)

- Lost Time Accidents

Organization	# Accidents	Man-Hours Worked
TVA	0	650,000
Stone & Webster	0	808,000
General Electric	0	67,000

V. REFUELING OUTAGE CHALLENGES
DRYWELL HEAD O-RINGS

- Invalid LLRT Performed In May 1993 Due To RTV In O-Ring Grooves
- RTV Applied Without Proper Controls
- Revised DCN To Allow Limited Application Of RTV
- Revised Procedure To Provide Instructions On Proper Application Of RTV
- Fabricated Special Tool To Apply RTV (Procedure Requires Use Of Tool)
- RTV Application Oversight By Engineering And Tech Support

V. REFUELING OUTAGE CHALLENGES (CONT.)
PURGE VALVE LLRT FAILURES

- Excessive Leakage Measured During Local Leak Rate Testing of Four Valves (2-FCV-64-17, -18, -19, And 76-24)
- Troubleshooting Isolated LLRT Failure To 64-18 And -19 Valves
- Valves Refurbished And Successfully Passed As-Left LLRT
- Second As-Found LLRT Performed Due To Concerns Over Repeatability (LLRT Failed)
- 64-19 Valve Determined To Be Source Of Leakage
- Troubleshooting Identified Stem Adaptor Key For 64-19 Valve Was 0.155 Inches Longer Than Manufacturer's Specification
- Subsequent Troubleshooting Identified Incorrect Shim Installation On 64-18 And 64-19 Valve Operator Mounting Brackets
- 64-18 And 64-19 Valves Successfully Passed As-Left LLRT
- Similar Valves Examined For Same Condition
  - No Other Valves Identified With Stem Adaptor Key Problems
  - No Other Valves Identified With Shim Problems

V. REFUELING OUTAGE CHALLENGES (CONT.)
RECIRCULATION PUMP DISCHARGE VALVE MOTOR FAILURE

- Recirc Pump 2B Discharge Valve Failed To Close During Alignment Of RHR For Shutdown Cooling
- Valve Operator Motor Rotor (Magnesium Alloy) Catastrophically Failed While Closing
- Motor Failure Appears Similar To Other Industry Failures During Previous Six Years
- Inspected Similar Valve Operator Motors
  - Corrosion Found On Recirc Pump 2A Discharge Valve Operator Motor Rotor
  - No Other Problems Identified
- Replaced Both Recirc Pump Discharge Valve Operator Motors Before Startup
- TVA Laboratory Analysis Of Failed Rotor Inconclusive - Reliance Motor To Perform Independent Failure Analysis
- Reviewing Options For Replacing Magnesium Alloy Rotors

V. REFUELING OUTAGE CHALLENGES (CONT.)
DEBRIS IN TORUS

- Approx. 11 ft.^{2} Of Fibrous Material Discovered During Outage

- Material Was Removed and Consisted Primarily Of Paper Towels (8 ft.^{2}) And Tape (3 ft.^{2})

- Volume Of Material Was Insufficient To Reduce ECCS NPSH Below Pump Requirements

- Root Causes

  - Inadequate Guidance And Lack Of Awareness Of The Importance Of Torus Foreign Material Exclusion (FME)

  - Personnel Working In Torus Lacked Sensitivity Toward FME

V. REFUELING OUTAGE CHALLENGES (CONT.)
OPERATIONAL ERRORS

- Failure To Monitor Reactor Water Level Indication During Shutdown
- Failure To Monitor Reactor Recirculation Loop Temperature During Shutdown
- Failure To Open Reactor Zone To Standby Gas Treatment System Dampers During Combined Zone Secondary Containment Integrity Test
- Failure To Complete Actions Required By Alarm Response Procedure After Annunciator Cleared
- Momentary Loss Of Shutdown Cooling During Load Acceptance Test
- Cycling Of RHR Minimum Flow Valve While in Shutdown Cooling
- Incident Investigation Commissioned To Assess Commonalities And Identify Any Immediate Corrective Actions Necessary

VI. PROCEDURAL ADHERENCE

- Site Trend Program Identified Adverse Trend In Procedural Adherence
- Incident Investigation (II) Complete And Plant Personnel Briefed On Findings
- Five Root Causes Identified
  - Perceived Schedule Pressure (At Craft Level)/Production Pressure
  - Ambiguous/Unclear Or Complex Procedures And Programs
  - Work Order/Procedure Inconsistencies And Redundancies
  - Training Deficiencies
  - Supervisory Skills
- Established Dedicated HIT Teams To Review Findings/Develop Corrective Actions
- HIT Teams Should Finalize Corrective Action Plans By February 1995
- Six-Month Followup Evaluation By Plant Manager And NA&L Manager

VII. CLOSING REMARKS