Hirial cops FFB 1.7 1994 Docket No. 50-327, 50-328 License No. DPR-77, DPR-79 Tennessee Valley Authority ATTN: Dr. Mark O. Medford Vice President, Technical Support 3B Lookout Place 1101 Market Street Chattanooga, TN 37402-2801 Gentlemen: SUBJECT: MANAGEMENT MEETING SUMMARY On February 11, 1994, the NRC staff met at the Sequoyah site with representatives of the Tennessee Valley Authority (TVA) management staff to discuss the schedule of restart activities regarding Sequoyah Unit 1. Enclosure 1 is a list of the individuals who attended the meeting and Enclosure 2 is the handout material supplied by TVA. The topics discussed included Unit 1 status, recent operational issues and their effect on schedule, Nuclear Assurance reviews, and overall Unit 1 schedule. 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 Enclosures: 1. List of Attendees 2. Presentation Notes cc w/encls: (See page 2) 9402280105 940217 PDR ADDCK 05000327

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cc w/encls: Mr. Craven Crowell, Chairman Tennessee Valley Authority ET 12A 400 West Summit Hill Drive Knoxville, TN 37902

Mr. W. H. Kennoy, Director Tennessee Valley Authority ET 12A 400 West Summit Hill Drive Knoxville, TN 37902

Mr. Johnny H. Hayes, Director Tennessee Valley Authority ET 12A 400 West Summit Hill Drive Knoxville, TN 37902

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

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

Mr. B. S. Schofield, Manager Nuclear Licensing and Regulatory Affairs Tennessee Valley Authority 4G Blue Ridge 1101 Market Street Chattanooga, TN 37402-2801

Mr. Ralph H. Shell Site Licensing Manager Sequoyah Nuclear Plant Tennessee Valley Authority P. O. Box 2000 Soddy Daisy, TN 37379 Mr. Robert Fenech, Site Vice President Sequoyah Nuclear Plant Tennessee Valley Authority P. O. Box 2000 Soddy Daisy, TN 37379

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

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

County Judge Hamilton County Courthouse Chattanooga, TN 37402

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

Mr. Bill Harris Route 1, Box 26 Ten Mile, TN 37880

bcc w/encls: (See page 3)

## Tennessee Valley Authority

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bcc w/encls:

J. R. Johnson, DRP/RII

G. C. Lainas, NRR

F. J. Hebdon, NRR

P. J. Kellogg, DRP/RII

S. E. Sparks, DRP/RII

D. E. LaBarge, NRR

NRC Document Control Desk

NRC Resident Inspector U.S. Nuclear Regulatory Commission 2600 Igou Ferry Road Soddy-Daisy, TN 37379

DRP/RII SES SSparks:vyg 02/4/94 DRP/R/1 PKellogg 02/16/94

#### ENCLOSURE 1

#### LIST OF ATTENDEES

#### NRC

- S. D. Ebneter, Regional Administrator, Region II (RII)
- A. F. Gibson, Director, Division of Reactor Safety, RII
- J. R. Johnson, Deputy Director, Division of Reactor Projects (DRP), RII
- P. J. Kellogg, Section Chief, Branch 4, Section 4A, DRP, RII S. E. Sparks, Project Engineer, Branch 4, Section 4A, DRP, RII W. E. Holland, Senior Resident Inspector, DRP, RII
- S. M. Shaeffer, Resident Inspector, DRP, RII
- F. J. Hebdon, Director, Project Directorate II-4, Office of Nuclear Reactor Regulation (telecon)

#### TVA

- O. D. Kingsley, President, Generating Group
- O. J. Zeringue, Senior Vice President, Nuclear Operations
- M. O. Medford, Vice President, Technical Support
- R. A. Fenech, Site Vice President, Sequoyah K. P. Powers, Plant Manager, Sequoyah J. S. Baumstark, Operations Manager

- N. Welch, Operations Superintendent
- R. S. Driscoll, Site Quality Manager
- R. H. Shell, Licensing Manager D. Keuter, Outage Manager
- R. M. Eytchison, Special Assistant

# UNIT 1 STATUS MEETING TENNESSEE VALLEY AUTHORITY SEQUOYAH NUCLEAR PLANT

February 11, 1994 Sequoyah Training Center

## TVA/NRC UNIT 1 STATUS MEETING FEBRUARY 11, 1994

## AGENDA

• INTRODUCTION R. A. FENECH

• UNIT STATUS/PLANS K. P. POWERS

OPERATIONS ISSUES
 J. S. BAUMSTARK

NUCLEAR ASSURANCE
 R. F. DRISCOLL

• CLOSING REMARKS R. A. FENECH

# INTRODUCTION

#### UNIT STATUS

- Unit 2 Online for 30 Continuous Days
- Unit 1 Restart Work Winding Down
  - Remaining Hardware and Testing Items

Work Order - 271 Remaining; 3,866 Complete
PMTs - 857 Remaining; 3,009 Complete
Checkoffs - 713 Remaining; 12,253 Complete
Surveillance Tests
S/G Enclosure Cable/Conduit Work

## ACCEPTABLE

- Labeling
- MCR Instrumentation
- SI/PI Performances
- SI/PI Reviews
- Overall Backlog Reduction

## ISSUES REQUIRING ATTENTION BEFORE TWO-UNIT OPERATION

## NEEDS IMPROVEMENT

- Configuration Control
- Operations Supervision
- Conduct of Operator Rounds
- MCR Annunciators
- Chemistry Instrumentation
- SI/PI Deficiency Dispositions
- Corrective Action Reviews

## UNACCEPTABLE

- Priority 2 Work Requests
- Radiation Monitors
- Out-of-Specification Readings on AUO Rounds
- Operations' Concerns List
- Equipment in Reduced Status
- Plant Deficiencies Affecting MCR Equipment

#### CAUSES

## SITE WAS FOCUSED ON:

- Unit 2 Operation
- Overall Backlogs
- Unit 1 Recovery
- Unit 2 Cycle 6 Refueling Outage
- Identification of Issues/Problems

## • SITE DID NOT SUFFICIENTLY FOCUS ON:

- Quality of Operations on Unit 1
- Effectiveness of Corrective Actions for Identified Issues/Problems
- Quality of Scheduling/Communication

## · OPERATIONS' OWNERSHIP

- Personnel Tried to Support Plans and Compensate for Process Deficiencies
- Errors Highlighted Some Personnel Performance and Process Weaknesses
- Operations Has Not Accepted the Need to Improve

## CORRECTIVE ACTIONS

- Sequoyah Has Created a Controlled and Focused Atmosphere
  - Focused on Hardware
  - Focused on Cultural Issues
- Additions Have Been Made to the Operations and Maintenance Management Structure to Strengthen These Organizations
  - Operations Unit Managers
  - Maintenance Shift Managers
- A Review of Operations Issues is Being Performed By the Site, with Assistance from Corporate and Another TVA Site, to Evaluate Operations' Performance and Formulate Near-term (Pre-two-unit Operation) and Long-term Actions

## TWO-UNIT OPERATION READINESS PROCESS

- Continue Weekly Site Review with Site Vice President and Senior Vice President of Nuclear Operations to Assess Readiness
- MRRC Will Review All Site Organizations To Ensure Issues Are Understood And At A Manageable Level
- Ongoing Evaluation of These Issues Will Lead to a Quality-of-Work Driven - Not Date-Driven - Schedule
- Mode 4 Readiness is Expected Mid-to-Late March

## **OPERATIONS**

# UNIT 1 WILL NOT RESTART UNTIL OPERATIONS' PERFORMANCE HAS IMPROVED

- Sequoyah Has Personnel Performance Problems
   That Must Improve Before Operating Two Units
- Several Significant Events in Last Several Months:
  - Motor Auxiliary Feed Pump Left in Pull-to-Lock
  - TD Auxiliary Feed Pump Left in Manual
  - Hotwell Pump Deadheaded
  - Auxiliary Boiler Overpressurized
  - Loss of RCS Inventory
  - Cold Leg Accumulator Valve Inadvertent Opening
  - No Raw Water Cooling Pump in Auto
  - Use of Info Copy of Clearance to Perform Task
  - L-B ERCW Pump Failed to Start
  - VCT Temperature

## **OPERATIONS**

## PERSONNEL PERFORMANCE PROBLEM AREAS

- Inadequate Equipment Status Control

- Lack of Supervision Enforcing Standards and Expectations
- Personnel Errors and Poor Attention to Detail
- Lack of Procedural Adherence
- Poor Communications and Turnover
- Poor Logs and Record Keeping
- Inadequate Operator Rounds
- Sequoyah's Operations Personnel Have To Accept Responsibility for These Issues and Work to Resolve These Issues

## ACTION PLAN

## Completed

- Operations' Control of the Daily Schedule
- Lessons Learned from Previous Events Were Reviewed With Operations Personnel

## In Progress

- Refine Improvement Plan with Real Time Data
- Process Improvements
- Continued Line Management Oversight

OUTSIDE REVIEWS

Plant Management
Responsibility
Is To Ensure Adequate Barriers
Are In Place & Working

## STANDARDS/PRACTICES

Stds, BPs, Quality Plan, Security Plan, Emerg Plan, etc.

## PORC REVIEWS

Periodic mtgs, Proc, Problems, Events, Safety, etc.

## PLANT MANAGEMENT

Observation, Review, Monitor, Reward, Discipline, Coach, Develop Expeciations, Select People Teamwork, Communications, etc.

### QUALITY ASSURANCE

Audits, Surveillances, Reviews, Monitoring CAQs, etc.

CORP OVERSIGHT & ASST

Prog Review, Team Assmt, Investigations

NOTE: All arrows indicate written and/or verbal communications.

Poor communication is the main reason for missing barriers.

Barriers To Prevent Bad Things From Happening

#### PLANT EQUIPMENT

Design, Maint, Periodic Testing, Monitoring, etc.

#### ADMIN PROGRAMS

SSPs, BPs, Als, Tech Specs

#### **PROCEDURES**

EOIs, SIs, WOs, SOIs, etc.

#### **OPERATIONS**

Status Critri, Review, Monitor Priorities, Command Control Emerg Resp. etc.

#### SUPERVISION

Pling, briefings, observation, accountability, problem solving, etc.

#### WORKERS

Trng, Qual, Motivation, Self Checking, etc.

#### VERIFICATION

Docmnt, Testing, Double Verify, QC Holds, RP Monitoring, etc.

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# SEQUOYAH NUCLEAR PLANT UNIT 1 RESTART READINESS ASSESSMENT

- NUCLEAR ASSURANCE OVERSITE -

I. BALANCE OF PLANT	12/13	12/20	12/27	1/3	1/10	1/17	1/24	1/31	2/7	2/14
I.A.1 - UPGRADE WORK PRACTICES	G	G	G	G	G	G	G	G	Υ	
I.A.2 - CONTROL OF WORK	Y	Y	G	G	G	G	G	G	G	
I.A.3 - ASSESSMENT & PRIORITIZING OF WORK	G	G	G	G	G	G	G	G	G	
II. OPERATIONS DEPARTMENT										
II.B.1 - CONFIGURATION CONTROL	G	G	G	G	G	G	Y	Y	Υ	
II.B.2 - STRENGTHEN OPERATIONS MANAGEMENT	G	G	G	G	G	G	G	G	G	
II.B.3 - CONDUCT OF OPERATIONS	G	G	G	G	G	G	G	G	G	
III. BACKLOGS										
III.C.1 - BACKLOGS/WORK PRIORITIZATION	Y	Y	Y	Υ	Υ	Υ	Υ	Υ	Υ	
IV. PERSONNEL, ORGANIZATION & CULTU	RE									
N.D.1 - CULTURE AND OWNERSHIP	Ya	TY.	Y	Y	Y	Y	Υ	Y	Y	



ACCEPTABLE RESULTS



IMPROVEMENT NEEDED FOLLOW-UP PLANNED



UNACCEPTABLE RESULTS



INSUFFICIENT INFORMATION OR NOT EVALUATED

## CLOSING REMARKS

- Sequoyah Had Been Noticing Improving Trends in Key Indicators. However, Over the Last Few Weeks, Some Significant Indicators Started Trending Downward.
- Actions Have Been Taken and Are Continuing In Order to Correct the Subject Issues
- Restart Schedule Will Be Quality-of-Work Driven and Not Date-Driven

# UNIT 1 SCHEDULE OVERVIEW

JANUARY **FEBRUARY** MARCH APRIL 3-9 10-16 | 17-23 | 24-30 | 31-6 7 13 14-20 21-27 28-6 7-13 | 14-20 | 21-27 | 11-17 18-24 25-30 28-3 4-10 RESTART HARDWARE & TESTING Q. GENSYNC. RESTART WR's / WO's / PMT's ♦ MODE 2 SECONDARY SYSTEM CLEANUP EST REQUIRED VACUUM WORK ♦ MODE3 BAL OF CNTMT CNTMT CLOSURE / ANNULUS DRAWDOWN TEST CABLE WORK 1 MODE 4 SI-OPS-082-026 CCS JA FLOW BALANCE DG/ESF TEST OPERATIONS DEPT ISSUES MANAGEMENT ISSUES 1. EQUIPMENT STATUS CONTROL 2. CONTROL OF WORK OFS READINESS MANAGEMENT ATTENTION ITEMS MTGS 1. GENERAL BACKLOG REDUCTION 2. RAD/CHEM BACKLOG REDUCTION MILESTONE DATE RANGE 3. CNTRL ROOM ANNUN / INST OUT-OF-SERVICE BACKLOG REDUCTION 4. NON-OUTAGE EOPT OUT-OF-SERVICE BACKLOG REDUCTION VACUUM 2/10 TO 2/12 minimum ii MODE 4 3/12 TO 3/28 -MRRC REVIEWS MODE 3 3/16 TO 4/01 CORRECTIVE ACTION REVIEWS 1. PER's MODE 2 3/21 TO 4/06 2. 11's GEN SYNC 3/26 TO 4/11 3. UNIT 2 LESSONS LEARNED шишшип

2/10/94 11:04 am

## II.I MANAGEMENT ATTENTION ISSUES

	MEETING DAY	REQUIRED ATTENDANCE	LAST WEEK'S NUMBERS	TODAY'S NUMBERS	GOAL	GOAL DATE	OWNER
SI+ WITH OPEN DEFICIENCIES	MONDAY	OPS/MIG/MEG/MMG/MSM/TPP DNE/PTS/FPU/MAT/PNS	36	33	10*	03/22/94	K. ALLEN
PI» WITH OPEN DEFICIENCIES	MONDAY	OPS/MIG/MEG/MMG/MSM/ DNE/PTS/FPU/MAT/PNS	27	30	TO BE SET 2/14/94	TO BE SET 2/14/94	K. ALLEN
CHEMISTRY INSTRUMENTATION	TUESDAY	MIG/MEG/MMG/MODS/TS/ DNE/CHEM/MATS/PNS	70	84	8	04/01/94	R. RITCHIE
RADIATION MONITORS OUT OR SERVICE	TUESDAY	MIG/MEG/MMG/MODS/TS/ DNE/CHEM/MATS/PNS	28	28	10**	05/01/94	R. RITCHIE
MCR NUISANCE OR LIT ALARMS	WEDNESDAY	MIG/MEG/MMG/TCS/MODS DNE/TS/MAT/PNS	8	8	BLACK BOARD	06/01/94	B. CONWELL
MCR DISABLED ALARMS	WEDNESDAY	MIG/MEG/MMG/TCS/MODS DNE/TS/MAT/PNS	23	23	TO BE SET 2/16/94	TO BE SET 2/16/94	B. CONWELL
MCR INSTRUMENTS DUT OF SERVICE	WEDNESDAY	MIG/MEG/MMG/TCS/MODS DNE/TS/MAT/PNS	10.00	11	15***	GOAL ACHIEVED	B. CONWELL
FREEZE PROTECTION DEFICIENCIES	THURSDAY	MIG/MEG/MMG/MODS/ FPU/TS/MAT/PNS	24	23	5	10/01/94	S. EMERTT
BORIC ACID HEAT TRACE DEFICIENCIES	THURSDAY	MIG/MEG/MMG/MODS/ FPU/TS/MAT/PNS	6	5	TO BE SET 2/17/94	TO BE SET 2/17/94	D. MURPHY
AUO LOGS OUT OF SPECIFICATION READINGS	FRIDAY	OPS/MIG/MEG/ MMG/PNS	18	28			

NOTE: MEETINGS TO BE HELD IN SOLAR BUILDING WAR ROOM ON SECOND FLOOR AT 12:30 DAILY.

<sup>\*</sup> NON OUTAGE RELATED

<sup>\*\*</sup> EXCLUDES CONTINUOUS AIR MONITORS

<sup>\*\*\*</sup> CORPORATE GOAL - GOAL HAS BEEN ACHIEVED