



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

May 4, 1988

Docket No. 50-327

LICENSEE: Tennessee Valley Authority

FACILITY: Sequoyah Nuclear Plant, Unit 1

SUBJECT: APRIL 14, 1988 MEETING WITH TENNESSEE VALLEY AUTHORITY (TVA) TO DISCUSS DIFFERENCES BETWEEN SEQUOYAH UNITS 1 AND 2 IN THE SEQUOYAH NUCLEAR PERFORMANCE PLAN

On Thursday, April 14, 1988, a meeting was held at the Office of Special Projects (OSP) headquarters, NRC, Rockville, Maryland with TVA. The meeting was held to discuss differences between Sequoyah Unit 1 and Unit 2 civil engineering issues discussed in the Sequoyah Nuclear Performance Plan (SNPP). Attachment 1 is the list of individuals that attended the meeting. Attachment 2 is the material handed out by TVA to the staff. There was no material handed out by the staff. The following is a summary of the significant items discussed and the actions, if any, taken or proposed.

The SNPP through Revision 2 was submitted by TVA in its letter dated July 2, 1987. The SNPP is TVA's response to the staff's 10 CFR 50.54(f) letter dated September 17, 1985 and explains TVA's plan to return Units 1 and 2 to power operation. The staff's revised Safety Evaluation Report (SER) on the SNPP for Unit 2 was issued March 25, 1988. In its letter dated March 31, 1988, TVA identified civil engineering issues as one of four areas in the SNPP where differences exist between Unit 1 and Unit 2 in the SNPP. Section III.15.1 of the SNPP on civil engineering issues discusses TVA's actions on IE Bulletin 79-14. This meeting was held to discuss differences between Unit 1 and Unit 2 in this area. TVA will be submitting a revised SNPP which will include this information by April 29, 1988.

The agenda for the meeting is Page 2 of Attachment 2. The two areas in the SNPP civil engineering issues to be discussed were (1) closure of IE Bulletin 79-14 for Unit 1 and (2) Unit 1 programs using interim criteria for the restart of Unit 1. TVA also presented the schedule for the restart of Unit 1. This is on Page 4 of the handout.

TVA discussed their plan for closure of IE Bulletin 79-14 at Sequoyah. The bulletin had been previously closed by TVA for Sequoyah Unit 2; however, TVA had not completed the resolution of the bulletin for Unit 1. TVA proposed a program for the resolution of IE Bulletin 79-14 for Sequoyah Unit 1. TVA's proposed program included all Category I (seismic) rigorously analyzed piping that had not been covered by Unit 2 programs. TVA's program plan calls for completion of the field walkdowns and evaluations of these systems prior to Unit 1 restart. TVA proposes to use the same criteria for determining restart modifications that were used on Unit 2. In addition to the program plan for rigorously analyzed piping, TVA proposed to implement the same two phase program for alternately analyzed piping systems that had been implemented on Unit 2. This proposed plan will result in the final resolution of IE

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Bulletin 79-14 walkdowns and evaluations for alternately analyzed piping as a post restart effort. The staff did not reach a conclusion on the acceptability of this proposed approach at the meeting.

TVA presented the Unit 1 civil engineering programs using interim criteria. These are on Pages 17 through 20 of the handout. The interim criteria used are the staff approved restart criteria for Unit 2 used to determine which modifications had to be completed before restart and which ones could be deferred until after restart.

TVA discussed the following Unit 1 civil engineering issues using interim criteria: (1) rigorous analysis pipe support, (2) alternately analyzed piping and supports, and (3) Category I cable tray supports. TVA stated that the interim criteria to be used for Unit 1 will be the same as Unit 2. Therefore, there will be no differences between Unit 1 and Unit 2 for these three programs.

Original Signed by Robert A. Hermann for

Jack N. Donohew, Jr., Project Manager
Sequoyah Unit 1
TVA Projects Division
Office of Special Projects

Attachments:

1. List of Attendees
2. Licensee's Handout

cc w/attachments:
See next page

Distribution

Docket File
NRC PDR
Local PDR
Those on Attached List

*SEE PREVIOUS CONCURRENCE

OSP:TVA
JGriffin
5/ /88

OSP:TVA/PM*
JDonohew:as
5/03/88

OSP:TVA/TP*
JFair
5/03/88

OSP:TVA/BC*
RShewmaker
5/03/88

TVA:A/AD/P
RHermann
5/4/88

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Jack N. Donohew, Jr., Project Manager
Sequoyah Unit 1
TVA Projects Division
Office of Special Projects

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JDonohew:as
5/3/88

OSP:TVA/TP
JFair
5/3/88

OSP:TVA/BC
RShewmaker
5/3/88

TVA:A/AD/P
RHermann
5/ /88

ATTACHMENT 1

MEETING WITH TENNESSEE VALLEY AUTHORITY (TVA)
TO DISCUSS
SEQUOYAH UNIT 1 DIFFERENCES FROM UNIT 2 IN
CIVIL ENGINEERING ISSUES

<u>Name</u>	<u>Organization*</u>
J. Donohew	OSP/NRC
R. Pierson	OSP/NRC
J. Hosmer	TVA
J. McCall	TVA
M. Harding	TVA
J. Fair	OSP/NRC
R. Hermann	OSP/NRC
T. Cheng	OSP/NRC
G. Sanders	G/C
C. Whitehead	G/C
L. Budlong	SWEC
T. Bostrom	Bechtel
R. Hernandez	TVA
W. Leininger	G/C
R. Grave	TVA
W. Smathers	TVA
D. Lundy	TVA
W. Massie	TVA
R. Kundalker	TVA
J. Ziegler	TVA
D. Terrill	TVA

OSP - Office of Special Projects
G/C - Gilbert Commonwealth
SWEC - Stone and Webster Engineering Corporation

**TVA - SEQUOYAH UNIT 1
RESTART PROGRAM**

PRESENTATION TO USNRC

APRIL 14, 1988

F

SEQUOYAH UNIT 1 PROGRAM PRESENTATION

AGENDA

- 2
- | | | |
|------|---|----------------|
| I. | INTRODUCTION | M. HARDING |
| II. | UNIT 1 SCHEDULE OVERVIEW | R. GROSS |
| III. | UNIT 1 RIGOROUS ANALYSIS AND 79-14 PROGRAM | W.J. LEININGER |
| IV. | UNIT 1 PROGRAMS UTILIZING INTERIM CRITERIA: | |
| | • Rigorously Analyzed Piping | W. L. SMATHERS |
| | • Alternately Analyzed Piping | D. L. LUNDY |
| | • Cable Tray Supports | R. KUNDALKAR |
| V. | SUMMARY | R. GROSS |

UNIT 1 SCHEDULE OVERVIEW

SQN - UNIT 1 SCHEDULE

JUNE 30

JULY 21

AUGUST 4

DESIGN AND CONSTRUCTION
COMPLETE

MODE 4

CRITICALITY

- CLOSE PAPERWORK

- HEAT-UP AND TEST

- SYSTEM ALIGNMENT

+

**UNIT 1 RIGOROUS ANALYSIS
AND 79-14 PROGRAM**

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A. PROGRAM PHILOSOPHY

- **Utilize Similarity Of Unit 1 And Unit 2**
- **Closure Of 79-14**
- **Integrated Evaluation Of:**
 - **As-Built Data**
 - **CAQRs**
 - **NCRs**
 - **PIRs**
 - **SCRs**
 - **As-Built Discrepancies**

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B. PROGRAM ELEMENTS

- **Field Walkdowns**
- **Review Of Record Analysis**
- **Support Calculation Upgrade/Regeneration**
- **Issue Modifications**
 - **Restart**
 - **Post Restart**

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**C. SCOPE: CATEGORY I RIGOROUSLY ANALYZED PIPING
NOT COVERED BY UNIT 2 PROGRAMS**

- 25 Systems
- 162 Analyses
- 2875 Supports

**COMPARISON OF UNIT 1/UNIT 2
CALCULATION REGENERATION PROGRAMS**

	UNIT 1	UNIT 2
● Number Of Supports In Scope	2875	5612
● Number Of Restart Modifications	125 (83 To Date)	181
● % Restart Modifications	4.3%	3.2%
● Number Of Post Restart Modifications	250 (114 To Date)	447
● % Post Restart Modifications	8.7%	8.0%

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D. PROGRAM STATUS

- Walkdowns - Complete
- Analysis Reviews - Complete
- Support Evaluations - 75% Complete
- Issue Of Modifications
 - Restart - 60% Complete
 - Post Restart - 25% Complete

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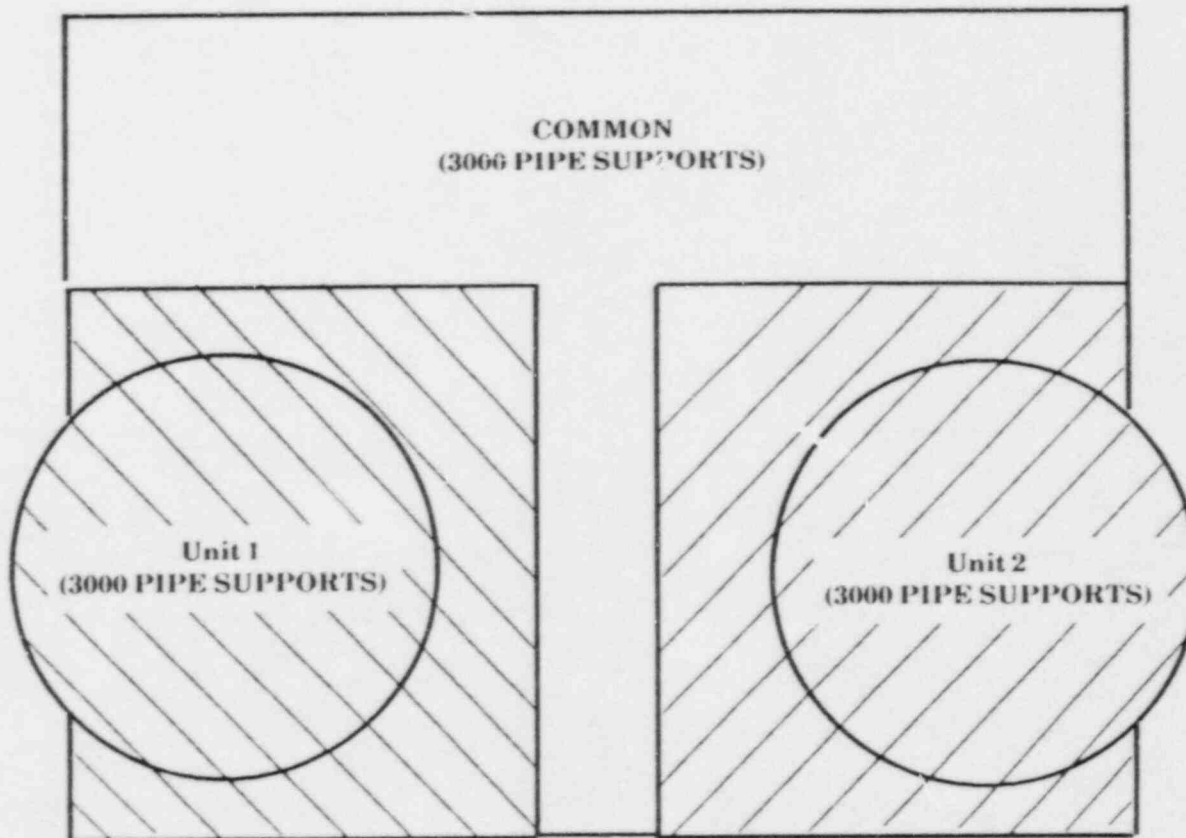
E. IE BULLETIN 79-14 PLAN

- **Objective**
 - **Submit A Report Summarizing 79-14 Activities On Unit 1 And Common Systems**

- **Scope Of 79-14 Report**
 - **Rigorously Analyzed Unit 1 Piping**
 - **Common Systems And Unit 1 Piping In Unit 2 Scope**
 - **Safety Related Alternately Analyzed Piping 2 1/2 Inches And Larger**

//

**PHYSICAL SCOPE OF
UNIT 1, UNIT 2, AND COMMON PIPING**



F. IE BULLETIN 79-14 APPROACH

- **Rigorously Analyzed Piping In Unit 1 Program**
 - **Close Prior To Restart**
 - **Existing Data And Discrepancies**
 - **Supplemental Walkdowns**
 - **Functional Verification Walkdowns**

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F. IE BULLETIN 79-14 APPROACH (Cont'd)

- **Common Systems**
 - **Close Prior To Restart**
 - **Previous Walkdowns**
 - **Functional Verification Walkdowns**
 - **Unit 2 Calculation Regeneration Program**

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F. IE BULLETIN 79-14 APPROACH (Cont'd)

- **Alternately Analyzed Piping**
 - **Closed As Part Of Phase II**
 - **Field Walkdowns**
 - **Criteria Review**
 - **10% Of 79-14 Scope**

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G. SUMMARY AND CONCLUSIONS

- **Comprehensive Program**
- **Support Calculation Regeneration**
- **79-14 Closure Plan**

**UNIT 1 PROGRAMS UTILIZING
INTERIM CRITERIA**

A. UNIT 1 RIGOROUS ANALYSIS PIPE SUPPORTS

- **Same As Unit 2 Calculation Regeneration**
 - **SQN-DC-V-24.2**
 - **CEB-CI-21.89 To Prioritize Modifications**
- **125 Restart Modifications (Estimated)**
- **250 Post Restart Modifications (Estimated)**
- **Full Compliance By Unit 1 Cycle 4**

B. ALTERNATELY ANALYZED PIPING AND SUPPORTS

- **Same Program As Unit 2**
- **Phase I For Restart**
 - **83 Modifications (Same Percentage As Unit 2)**
 - **Full Compliance With SQN-DC-V-24.2**
- **Phase II By Unit 1 Cycle 4**

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UNIT 1 EVALUATION OF CATEGORY I CABLE TRAY SUPPORTS

- **Interim Acceptance Criteria The Same For Unit 1 And Unit 2**
- **C.T. Supports Evaluated Per Interim Criteria**
- **MODS To Supports Will Be Complete Prior To Restart**
- **Full Compliance By Unit 1 Cycle 4**

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SUMMARY

- **Schedule**
- **79-14 Report Submitted By July 15, 1988**
- **Three Programs With Interim Criteria**
- **Full Compliance By Unit 1 Cycle 4**
- **Questions**

Sequoyah Nuclear Plant

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DISTRIBUTION FOR MEETING SUMMARY DATED: May 4, 1988

Facility: Sequoyah Nuclear Plant, Unit 1*

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