

TVA EMPLOYEE CONCERNS  
SPECIAL PROGRAM

REPORT NUMBER: SWEC-SQN-32

REPORT TYPE: Sequoyah Nuclear Plant Element

REVISION NUMBER: 0

TITLE: Radiation Monitor Testing

REASON FOR REVISION: N/A

SWEC SUMMARY STATEMENT: The item in this report was identified by the Nuclear Regulatory Commission (NRC) and was included in the Stone & Webster Engineering Corporation (SWEC) systematic analysis. The item evaluated within this report was verified to be adequately addressed and ready for closure by the NRC.

PREPARATION

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ECSP MANAGER DATE

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MANAGER OF NUCLEAR POWER DATE  
CONCURRENCE (FINAL REPORT ONLY)

\*SRP Secretary's signature denotes SRP concurrences are in files.

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C. Verification Methodology

The SWEC concerns identified for Employee Concerns Task Group (ECTG) verification was stated as follows:

<u>RIMS #</u>	<u>Issue</u>	<u>RIMS Item</u>
A02 850607 002	One violation was identified: Failure to adequately establish and implement a surveillance instruction retesting of rad monitor. Result: Unnecessary Auxiliary Bldg. Isolation.	RIMS-001

ECTG reviewed the Sequoyah Compliance Licensing files for internal and external correspondence related to this issue, the applicable surveillance instruction, and NRC statusing files. This review of the pertinent documentation formed the basis for this verification activity.

D. Verification Analysis

The ECTG review of the pertinent documentation indicated that the NRC found the SQN corrective action response to be acceptable. Surveillance Instruction SI-82, Revision 19, was found to have adequately incorporated provisions for the 10-second time delay in circuitry. Sequoyah corrective actions have been completed, and this issue is ready for closure.

E. Completion Status

Based on the SQN safety position, compliance with the FSAR requirements, and NRC acceptance of the corrective actions, no further action on this item is required. Following NRC closure, the SWEC concern can be closed.

III. REFERENCES

- A. NRC Inspection Report Numbers 50-327/85-16 and 50-328/85-16, dated June 4, 1985, from D. M. Verrelli to H. G. Parris.
- B. TVA Memorandum "Sequoyah Nuclear Plant-Office of Inspection and Enforcement (OIE) Report Numbers 50-327/85-16 and 50-328/85-16, dated June 4, 1985," dated June 27, 1985, from H. L. Abercrombie to J. W. Hufham.
- C. NRC Letter "Report Numbers 50-327/85-16 and 50-328/85-16," dated August 6, 1985, from D. M. Verrelli to H. G. Parris.

TENNESSEE VALLEY AUTHORITY  
WATTS BAR NUCLEAR PLANT  
EMPLOYEE CONCERNS TASK GROUP  
OTHER SITES  
CEG

Element Title: Radiation Monitor Testing

SWEC Concern: A02850607002-001

Source Document: NRC Inspection Report -  
50-327/85-16 and  
50-328/85-16

Report Number: SWEC-SQN-32

Evaluator:

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## I. INTRODUCTION

During an inspection of radiation control activities at Sequoyah Nuclear Plant (SQN) April 6 through May 5, 1985, the Nuclear Regulatory Commission (NRC) identified (reference A) one violation (85-16-01) which was included in the Stone & Webster Engineering Corporation (SWEC) systematic analysis:

A02850607002-001, Radiation Monitor Testing.

Information on the background, the corrective actions taken, the verification methodology, and analysis, the completion status, and any pertinent references for this item is included in this report.

## II. OVERVIEW OF SWEC ITEM A02850607002-001, RADIATION MONITOR TESTING

### H. Background

While verifying the radiation monitor alarm setpoints by signal injection on RM 90-101A under surveillance Instruction SI-82, "Functional Tests for the Radiation Monitoring System", the instrument mechanics caused an unnecessary Auxiliary Building Isolation on April 4, 1985. The NRC inspector determined that the testing was conducted without the monitor functions blocked as required by SI-82 and that SI-82 did not incorporate technical information concerning circuit behavior after a 10-second time delay modification to the radiation monitor circuitry was made. TVA stated that the instrument mechanics' confusion over the 10-second delay during the testing caused them to get out of sequence with SI-82 which resulted in the unnecessary Auxiliary Building Isolation.

### B. Corrective Action Summary and Analysis

In the response to the violation, SQN stated (Reference B) that a temporary change to SI-82, Plant Operations Review Committee (PORC) approved for permanent revision, was immediately made to incorporate the 10-second time delay in the circuitry. A revision to SI-82 which incorporated the 10-second delay was issued on June 21, 1985. The NRC evaluated the response and found it to be acceptable (reference C).