

TVA EMPLOYEE CONCERNS  
SPECIAL PROGRAM

REPORT NUMBER: SWEC-SQN-07

REPORT TYPE: Sequoyah Nuclear Plant Element

REVISION NUMBER: 0

TITLE: NDT Documentation

REASON FOR REVISION: N/A

SWEC SUMMARY STATEMENT: The items in this report were identified by the Nuclear Regulatory Commission (NRC) and were included in the Stone & Webster Engineering Corporation (SWEC) systematic analysis. All items evaluated within this report were verified to be adequately addressed. SWEC concern A02841102004-002 was closed by the NRC. A02841102004-001 is ready for closure.

PREPARATION

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WATTS BAR NUCLEAR PLANT  
EMPLOYEE CONCERNS TASK GROUP  
OTHER SITES  
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Element Title: NDT Documentation

SWEC Concerns: AO2841102004-001  
AO2841102004-002

Source Document: NRC Inspection Report 327,328/84-26

Report Number: SWEC-SQN-07

Evaluator:	<u>John Knightly</u> J. J. Knightly	<u>9/17/86</u> Date
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Report SWEC-SQN-07  
NRC Reports 50-327/84-26 and 50-328/84-26

I. INTRODUCTION

During the inspection of October 9-12, 1984, (reference 1) Nuclear Regulatory Commission (NRC) identified two unresolved items (327, 328/84-26) which were included in the Stone & Webster Engineering Corporation (SWEC) systematic analysis.

- A. A02841102004-001 - Unresolved attenuation differences in ultrasonic testing of welds.
- B. A02841102004-002 - Missing documentation for radiographic examination of welds.

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

II. VERIFICATION OF SWEC ISSUES

A. A02841102004-001, Weld UT Testing

1. Background

The NRC inspector noted an attenuation difference which could nullify the results of the ultrasonic examinations for weld RC-180-17. A review of the attenuation measurements revealed that on this weld the average attenuation difference between the calibration block and the weld joint was five decibels with readings of seven and eight decibels in two of the four areas, thus exceeding scanning sensitivity. No program credit was given by NRC for examination of this weld. The attenuation difference was identified by NRC as Unresolved Item 84-26-01.

2. Corrective Actions Taken

Sequoyah Nuclear Plant (SQN) had Southwest Research Institute re-examine this weld, compensating for the energy loss as a result of the material attenuation noted in the NRC issue.

3. Verification Methodology

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

<u>RIMS Number</u>	<u>Issue</u>	<u>RIMS Item</u>
A02 841102 004-001	Pages 1, 5, and 6 - Weld rejection due to failure to follow ultrasonic testing procedure.	RIMS - 001

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

4. Verification Analysis

The ECTG review of the pertinent documentation indicated that SQN had Southwest Research Institute re-examine this weld, compensating for the energy loss as a result of material attenuation. At the time of NRC followup, Southwest Research Institute had not yet forwarded to TVA the completed data package for the re-examinations. The corrective action is regarded as complete. The procedure mentioned in the SWEC issue is one from Southwest Research Institute (reference 3). The original NRC inspection report did not use the phrase "failure to follow procedure"; noted that attenuation measurements were no longer a part of ASME Code requirements; and stated that, because attenuation measurements had been taken, the attenuation problem would have to be resolved as required by the procedure.

5. Completion Status

Procedural noncompliance was not identified as the central problem for this concern. ECTG concludes that re-examination and documentation for the weld is complete and that this item is ready for NRC closure.

B. A02841102004-002, Radiograph Film Availability

1. Background

The NRC inspector noted that the final acceptance radiographs for the Unit 1 Main Steam Containment Penetration Weld 1-12B-2,4,5 and 6 were not readily available for review during the inspection. The inspector did not have time to wait for a search to be performed in the vault for the missing film, therefore, URI 84-26-01 was identified.

2. Corrective Actions Taken

SQN produced the radiographs for the NRC inspector in a subsequent inspection.

### 3. Verification Methodology

The SWEC concerns identified for ECTG verification was stated as follows:

<u>RIMS Number</u>	<u>Issue</u>	<u>RIMS Item</u>
A02 841102 004	Pages 1 and 12 - Missing final acceptance film segments in radiographic film package resulted in NRC open/unresolved item document retrieval problem.	RIMS - 002

ECTG reviewed the NRC inspection and closure documentation. This review of the pertinent documentation in addition to discussions with SQN document control personnel formed the basis for this verification activity.

### 4. Verification Analysis

The ECTG review of the pertinent documentation indicated that the NRC item was adequately resolved. The NRC inspector reviewed the radiographs and had no further questions concerning the acceptability of these welds. NRC closed the item in Report 50-327,328/85-03, dated February 5, 1985 (reference 2). In addition to providing the radiographs requested by NRC, SQN completed an inventory and indexed their stored radiographs in order to facilitate their more rapid retrieval. ECTG confirmed that a manual index is maintained both for SQN site vault radiographs and for radiographs now stored off-site at the regional Federal Records Center facility.

### 5. Completion Status

Based on the SQN corrective actions, compliance with requirements, and NRC closure of the item, no further action on this item is required. This item is closed.

## III. REFERENCES

1. NRC Inspection Report Nos. 50-327/84-26 and 50-328/84-26, dated November 1, 1984, from D. M. Verrelli to H. G. Parris
2. NRC Inspection Report Nos. 50-327/85-03 and 50-328/85-03, dated February 5, 1985, from D. M. Verrelli to H. G. Parris
3. SWRI-NDT-800-17, R-26, Special Procedure for Manual Ultrasonic Examination of Austenitic Components with High Acoustic Attenuation Properties.