

Spring City, Tennessee 37381

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U.S. Nuclear Regulatory Commission

cc (Enclosures):

Mr. K. P. Barr, Acting Assistant Director
Regional Inspections
Division of TVA Projects
Office of Special Projects
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. John A. Zwolinski, Assistant Director
For Projects
Division of TVA Projects
Office of Special Projects
U.S. Nuclear Regulatory Commission
4350 East West Highway
EWW 322
Bethesda, Maryland 20018

Sequoyah Resident Inspector
Sequoyah Nuclear Plant
2600 Igou Ferry Road
Soddy-Daisy, Tennessee 37379

Enclosure 1

EMPLOYEE CONCERN REPORT
17303

1. Question: Has the corrective action for this report been completed?

Response: Per request of Mr. Hukam Garg of your office, we are submitting a copy of the case file closeout package (Enclosure 2).

EMPLOYEE CONCERN REPORT
19101

1. Question: Has the galvanized steel cable tray material noted in your report been accounted for in TVA's Post-LOCA hydrogen generation calculations?

Response: The Post-LOCA hydrogen generation calculations were generated subsequent to a physical walkdown of all original material installed. All rework performed after this time is controlled through the use of design change documents which are reviewed to ensure that any change in the amount of galvanized or zinc material used in the containment building is noted for consideration in recalculations of this type.

EMPLOYEE CONCERN REPORT
24101

1. Question: The response to an RAI on this report noted that ERCW MCC supply cables were meggered and hipot tested. At what voltage were these cables tested?

Response: The four ERCW MCC transformers supply cables were hipot tested to 13kV with the load disconnected.

Enclosure 2

Memorandum

TENNESSEE VALLEY AUTHORITY

TO : H. L. Abercrombie, Site Director, ONP, O&PS-4, Sequoyah Nuclear Plant

FROM : W. R. Brown, Jr., Program Manager, Employee Concerns Task Group,
ONP, Watts Bar Nuclear Plant

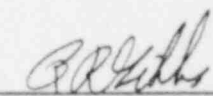
DATE : JUL 30 1987

SUBJECT: SEQUOYAH NUCLEAR PLANT (SQN) - EMPLOYEE CONCERNS TASK GROUP (ECTG) ELEMENT REPORT
C017303 - SQN, REVISION 3 - CONSTRUCTION CATEGORY - CORRECTIVE ACTION PLAN (CAP)
CLOSURE VERIFICATION

Reference: Your memorandum to me dated July 18, 1987 (S03 870716 850)

The ECTG construction category evaluator and group leader have reviewed the completed documents for the corrective action listed for the CAP to CATD 17303-SQN-01 in the above reference. The corrective actions were determined to be complete and the CAP is closed. This CAP was a restart requirement.

The CATD 17303-SQN-01 closure documents are attached for your records and action by your site for this CATD is complete.


for W. R. Brown, Jr.

JLH:KDH

Attachments

cc (Attachments):

RIMS, MR 4N 72A-C

P. Brackins, FSB, ONP, Watts Bar

R. C. Denney, DSC-P, ONP, Sequoyah

J. L. Howard, ECTG Bldg., ONP, Watts Bar

Guy Huff, ECTG Bldg., ONP, Watts Bar

5841T



ECSP Corrective
Action Tracking Document
(CATD)

INITIATION

Applicable ECSP Report NO:

1. Immediate Corrective Action Required: ☒ Yes ☐ No
2. Stop Work Recommended: ☐ Yes ☒ No
3. CATD No. CO17303-SGN-1
4. INITIATION DATE _____
5. RESPONSIBLE ORGANIZATION: SEQUOIA N. P. - SITE DIRECTOR
6. PROBLEM DESCRIPTION: ☒ QR ☐ NQR
INSTRUMENT LINE CLAMPS WERE EITHER IMPROPERLY INSTALLED, DAMAGED DURING OR AFTER INSTALLATION, ALTOGETHER MISSING OR UNACCEPTABLY SUBSTITUTED. THE SCHEDULE FOR THE CORRECTION OF THESE DISCREPANCIES, PER CONSTRUCTION SPECIFICATION NZC-946, HAS ONLY BEEN PARTIALLY JUSTIFIED. ONE ON-SITE WAS JUSTIFIED THE USE OF LOOSE INSTRUMENT LINE CLAMPS, BUT NO JUSTIFICATION EXISTS FOR THE ALTOGETHER MISSING INSTRUMENT LINE CLAMPS. THEREFORE, THE SCHEDULE FOR RESTART HAS NOT BEEN TOTALLY JUSTIFIED. ☐ ATTACHMENTS
7. PREPARED BY: NAME W.M. CLEMMER DATE: 9-24-86
8. CONCURRENCE: CEG-H Jack S. Howard DATE: 9-24-86
9. APPROVAL: ECTG PROGRAM MGR. [Signature] DATE: 3/13/87

CORRECTIVE ACTION

10. PROPOSED CORRECTIVE ACTION PLAN: SEE THE CAP TRANSMITTED BY MEMORANDUM 553 861217 808
11. PROPOSED BY: DIRECTOR/MGR: W.B. Rankin / H DATE: 12-19-86
12. CONCURRENCE: CEG-H: Jack S. Howard DATE: 12-29-86
SRP: N/A - JPR DATE: _____
12/29/86 DATE: _____
ECTG PROGRAM MGR: [Signature] DATE: 7/29/87

VERIFICATION AND CLOSEOUT

13. Approved corrective actions have been verified as satisfactorily implemented.

Jack S. Howard
SIGNATURE

WEN-ECTG CONSTR. CEG-H
TITLE

7-29-87
DATE

803 861218-804

TENNESSEE VALLEY AUTHORITY

UNITED STATES GOVERNMENT

Memorandum

TO : W. R. Brown, Jr., Program Manager, Employee Concerns Task Group, ONP,
Watts Bar Nuclear Plant

FROM : H. L. Abercrombie, Site Director, ONP, O&PS-4, Sequoyah Nuclear Plant

DATE : December 19, 1986

SUBJECT: SEQUOYAH NUCLEAR PLANT (SQN) - EMPLOYEE CONCERNS TASK GROUP (ECTG) ELEMENT
REPORT 173.03 SQN R1 - CONSTRUCTION CATEGORY - CORRECTIVE ACTION PLAN (CAP)

Reference: Your memorandum to me dated October 2, 1986, "Transmittal of
ECSP Report and Corrective Action Tracking Documents (CATDs)"
(T25 861002 862)

I acknowledge receipt of your element report and in accordance with your
request (see reference), Element Report 173.03 SQN R1 has been reviewed
for applicable corrective action.

By way of this memorandum I am endorsing the site line organization CAP,
returning your CATD No. CO17303-SQN-1, and attaching the CAP for your
review/concurrence. This CAP is a restart requirement.

If you agree with the proposed CAP, please sign the ECTG concurrence space
below item 9 on the CAP tracking checklist and return the CAP tracking
checklist.

H. L. Abercrombie
for H. L. Abercrombie

RCD:JDS:JB:CS

Attachments

cc (Attachments):

RIMS, MR 4N 72A-C (S53 861217 808)

T. C. Price, 5-212 SB-K

0473T

RECEIVED	
DEC 19 86 ✓	
Employee Concerns Task Group WBN	
Initials/Reply	
RED	
WLB	
PCA	
AS	
③ DIWS	✓
⑦	
N	
EH	
IC	
P	
H	
NO	
F	
① (DC, IN)	✓
REOP	
MS	
F. O. X	✓



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

Attachment A
Page 1 of 2Corrective Action Plan of Employee Concern Investigation
Tracking ChecklistECTG Report/CATD Number C017303 - SQN/CATD# C017303-SQN-1Lead Organization Responsible for Corrective Action Plan ConstructionInitiation Date 10-8-86

CORRECTIVE ACTION PLAN (CAP)

1. Does this report required corrective action? Yes X No
(If yes, describe corrective action to be taken, if no, provide justification)
A sample survey of instrument lines on critical systems will be conducted
by Mechanical Maintenance. DNE will evaluate this data to determine if
sufficient justification for restart exists under present conditions.
2. Identify any similar item/instances and corrective action taken.
Those mentioned in this report for bolt tightness (SCR CEB 8612).
Corrective action was to tighten bolts on selected supports per
construction specification N2C-946.
3. Will corrective action preclude recurrence of findings? Yes X No
4. Does this report contain findings that are conditions adverse to quality (CAQ)
as defined by AI-12 or NEP 9.1? YES X No
5. IF a CAQ condition exists, what CAQ document was initiated?
SCR CEB 8612 was already existing
6. Which site section/organization is responsible for corrective action?
Mechanical Maintenance and DNE
7. Is corrective action required for restart? Yes X No
(This determination is to be made using Attachment C of SQA166.)
8. P2 zone number for restart corrective action? Zone 9306
9. Estimate completion date for correction action. 2/13/87

Completed By Gary S. BoleApproved By Boyd PattersonECTG Concurrence W. M. O'ConnellJack F. HowardDate 12/16/86Date 12/17/86Date 12/23/8612/29/86

CAP CLOSURE

Yes _____ No _____

Yes _____ No _____

Yes _____ No _____

on? _____

Date _____

Date _____

Date _____

Description

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

UNITED STATES GOVERNMENT

Memorandum

TENNESSEE VALLEY AUTHORITY

TO : W. R. Brown, Jr., Program Manager, Employee Concerns Task Group, ONP, Watts
Bar Nuclear Plant

FROM : H. L. Abercrombie, Site Director, O&PS-4, Sequoyah Nuclear Plant

DATE : July 18, 1987

SUBJECT: SEQUOYAH NUCLEAR PLANT (SQN) - EMPLOYEE CONCERNS TASK GROUP (ECTG) ELEMENT
REPORT 173.03 SQN - CONSTRUCTION CATEGORY - UNIT 2 RESTART CORRECTIVE ACTION
PLAN (CAP) IMPLEMENTATION

Reference: Your memorandum to me dated January 6, 1987, "Sequoyah Nuclear Plant (SQN) - Employee Concerns Task Group (ECTG) Element Report CO17303-SQN - Construction Category - Corrective Action Plan (CAP) Acceptance Transmittal" (T25 870106 853)

I acknowledge receipt of your concurrence with my CAP on Element Report 173.03 SON (see above reference).

The restart corrective action for this report has been completed. Attached is the site line organization corrective action completion document for your use. You may proceed with your completion verification of this restart corrective action.

Please sign the ECTG closure space below item 14 on the CAP tracking checklist and return the CAP tracking checklist.

H. L. Abercrombie
H. L. Abercrombie

RCD:JDS:JB:MJW

Attachment

cc: RIMS, MR 4N 72A-C (S53 870715 908)

J. L. McAnally, A108 IOB, Watts Bar (Attachment)

0423D

RECEIVED

JUL 21 1971 ✓

Exp. 1000 Gull and Tern
C. 1000-1200

✓ RC

✓ RC

✓ RC



Corrective Action Plan of Employee Concern Investigation
Tracking Checklist

ECTG Report/CATD Number C017303 - SQN/CATD# C017303-SQN-1
 Lead Organization Responsible for Corrective Action Plan Construction
 Initiation Date 10-8-86

CORRECTIVE ACTION PLAN (CAP)

1. Does this report required corrective action? Yes X No
 (If yes, describe corrective action to be taken, if no, provide justification)
A sample survey of instrument lines on critical systems will be conducted
by Mechanical Maintenance. DNE will evaluate this data to determine if
sufficient justification for restart exists under present conditions.
2. Identify any similar item/instances and corrective action taken.
Those mentioned in this report for bolt tightness (SCR CEB 8612).
Corrective action was to tighten bolts on selected supports per
construction specification N2C-946.
3. Will corrective action preclude recurrence of findings? Yes X No
4. Does this report contain findings that are conditions adverse to quality (CAQ)
 as defined by AI-12 or NEP 9.1? YES X No
5. IF a CAQ condition exists, what CAQ document was initiated?
SCR CEB 8612 was already existing
6. Which site section/organization is responsible for corrective action?
Mechanical Maintenance and DNE
7. Is corrective action required for restart? Yes X No
 (This determination is to be made using Attachment C of SQA166.)
8. P2 zone number for restart corrective action? Zone 9306
9. Estimate completion date for correction action. 2/13/87

Completed By Gary S. HaleApproved By Boyd PattersonECTG Concurrence W.M. ClemmerJack F. HowardDate 12/16/86Date 12/17/86Date 12/28/8612/29/86

ATTACHMENT A

Page 2 of 2

CAP CLOSURE

10. Was your corrective action initiated and completed in accordance with step 1?

Yes ☒ No ☐

11. If step 10 is no, describe the corrective action taken.

12. Is the corrective action implementation complete?

Yes ☒ No ☐

13. Is the corrective action documentation closed?

Yes ☒ No ☐

14. What documents were used to implement the corrective action? SEE BELOW

Completed By:

Rayburn Bryant

Date

7-9-87

Verified By:

John L. Bryant

Date

7-9-87

ECTG Closure:

Jack L. Howard

Date

7-29-87

(Step No.)

Description

WR# B-123392	UNIT 1 WORK REQUEST TO INITIATE WALKDOWN.
WR# B-123391	UNIT 2 WORK REQUEST TO INITIATE WALKDOWN.
SMI-O-317-52	PROCEDURE USED TO PERFORM WALKDOWN.
S53 870105 937	MEMO FROM WALLACE TO WILSON REQUESTING SCHEDULES AND COORDINATION.
B25 870127 022	MEMO FROM WILSON TO NOBLES GIVING STATUS OF DNE ACTIVITIES.
B25 870227 022	MEMO DATED 1-6-87, FROM D.W. WILSON TO L.M. NOBLES CONCLUDING THAT RESTART CAN BE JUSTIFIED.
NCR SQN CEB 82-15	GENERIC ISSUES CONCERNING ALTERNATE ANALYSIS.
L44 870409 807	MEMO DATED 4-6-87, FROM R. GRIDLEY, DIRECTOR OF NUCLEAR SAFETY AND LICENSING TO U.S. NUCLEAR REGULATORY COMMISSION STATING COMMITMENTS FOR SQN ALTERNATE ANALYSIS PROGRAM PHASE II.

ECTG VERIFICATION CLOSEOUT CHECKLIST

CATD No. <u>CO17303-SQN-1</u> This CATD was designated: <input checked="" type="checkbox"/> QR CAQ No. <u>SCRSONCEB8612</u> <input type="checkbox"/> NQR	C/A completion notification Memorandum RIMS No. <u>S03 870716 850</u> This memorandum denoted CATD: <input type="checkbox"/> Partial Closure <input checked="" type="checkbox"/> Complete Closure																
<u>SUMMARY:</u> C/A elements reviewed																	
<input checked="" type="checkbox"/> Walkdown documents <input type="checkbox"/> Document and/or drawing reviews <input type="checkbox"/> Examination or test results <input checked="" type="checkbox"/> Engineering analysis <input type="checkbox"/> Repair or replacement records	<input checked="" type="checkbox"/> Procedure and/or drawing revision <input type="checkbox"/> Training records <input type="checkbox"/> Modification (ECN) documents <input type="checkbox"/> New program(s) <input type="checkbox"/> Other - specify _____																
<u>DISCUSSION:</u> Special Maintenance Instruction SMI-0-317-52 was issued to implement a sampling program to determine if the installed pipe/tubing hangers meet the required span criteria and to find any missing clamps. DNE reviewed the final results to ensure that the existing pipe/tubing configurations, as well as, pipe/tubing hanger installations are adequate to meet their design functions. Reference DNE calculations N2-ECP-173.7-MISC (RIMS # B25 870421 808) and SQCG1011X84 (RIMS # B25 870425 827). Therefore, the post restart schedule for the correction of these discrepancies (i.e., loose, damaged, and missing clamps) per Construction Specification N2C-946 has been fully justified.																	
<input checked="" type="checkbox"/> Continued																	
<u>Conclusions:</u> Corrective actions were adequate <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A																	
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 10%;">Yes</th> <th style="text-align: left; width: 10%;">No</th> <th style="text-align: left; width: 10%;">N/A</th> <th style="width: 70%;"></th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Deficiencies adequately scoped</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Deficiencies corrected</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Actions required to prevent recurrence complete</td> </tr> </tbody> </table>		Yes	No	N/A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Deficiencies adequately scoped	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Deficiencies corrected	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Actions required to prevent recurrence complete
Yes	No	N/A															
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Deficiencies adequately scoped														
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Deficiencies corrected														
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Actions required to prevent recurrence complete														
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <u>U.M. CLEMMER</u> Signature </div> <div style="text-align: center;"> <u>7-29-87</u> Date </div> </div>																	

[Handwritten signature]
7/29/87

VERIFICATION CLOSEOUT CHECKLIST

CATD NO. CO17303-SQN-01

Initials UMC

Date 7-29-87

DISCUSSION: (Continued)

Special Maintenance Instruction SMI-0-317-25 will identify and correct the loose, damaged, or missing clamps on all accessible Unit 1 and Unit 2 instrument lines for Unit 2 and common supports before the return to service from Unit 2 Cycle 4 outage and for Unit 1 and common supports before the return to service from Unit 1 Cycle 5 outage.

The revised Modification and Additions Instruction, M&AI 09, and the revised drawings, 47A050-17, -18, and -18A, will prevent recurrence.

☐ Discussion continued on continuation page.

VERIFICATION GUIDANCE

CATD NO. CO17303-SQN-01

Initials UMC

Date 7-29-87

Verification activities should answer two questions:

- (1) Were specific corrective action commitments and requirements completed?
- (2) Were the corrective actions taken adequate?

The verifier should consider whether or not the corrective actions taken address the identified problem in a manner consistent with the explicit and implied elements of the corrective action plan that was accepted by ECTG. At a minimum, the corrective actions should have identified all similar deficiencies if similar deficiencies exist, corrected all identified deficiencies, and implemented all actions required to prevent recurrence where applicable. The verifier should describe the evidence found to substantiate verification of corrective action and give the appropriate document references and/or hardware observed to aid in retrieval of the supporting documentation and/or justify conclusions.

If the "Corrective Actions were adequate" N/A block is checked in the conclusion section, this indicates that no corrective actions were required and an explanation of this finding should be given in the discussion section.

Handwritten: 7/29/87