TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT

SPECIAL MAINTENANCE INSTRUCTION

SMI-0-317-52

INSTRUMENT LINE CLAMP INSPECTION

Units 1 and 2

Revision 1

PREPARED BY: N. Sharma

RESPONSIBLE SECTION: Mechanical Maintenance

REVISED BY: N. Sharma

SUBMITTED BY: _____
Responsible Section Supervisor

PORC REVIEW DATE: FEB 18 1987

APPROVED BY: _____
Plant Manager

DATE APPROVED: FEB 18 1987

Reason for revision (include all Instruction Change Form Nos.):

Revised in accordance with ICF No. 87-071, PORC reviewed and approved 01/20/87.

The last page of this instruction is number: 12

SEQUOYAH NUCLEAR PLANT

PLANT INSTRUCTION REVISION LOG

SPECIAL MAINTENANCE INSTRUCTION SMI-0-317-52

REVISION LEVEL	Date Approved	Pages Affected	REASON FOR REVISION (INCLUDE COMMITMENTS AND ALL ICF FORM NUMBERS)
0	01/09/87	ALL	New Instruction- CAP #173.03 in response to ECTG Element Report No. 173.03.
1	FEB 18 1987	3,4,7	Revised in accordance with ICF No. 87-071, PORC reviewed and approved 01/20/87.

1.0 PURPOSE

The inspection program described below is to be performed to determine that installed tubing hangers meet the required span criteria and to find any missing hanger. A review of final results will be performed by DNE to ensure that existing tubing hanger installations are adequate to meet their design functions and to specify additional corrective actions, if required.

2.0 SCOPE

Tubing hangers to be inspected have been randomly chosen from universal printout and modification log books from different systems, and locations throughout Unit 1 and Unit 2 (except Turbine Building) and hangers are without insulation, by designated engineer. The initial sample size will be 83 tubing hangers. If the discrepancy rate is more than 5 percent of the initial sample, a subsequent sample size will be selected and incorporated as an attachment.

NOTE: Any subsequent lots shall be selected after DNE's evaluation of inspection results of previous lots.

3.0 REFERENCES

3.1 ECTG Element Report 173.03 SQN R1

3.2 47A050 General Notes

3.3 Unistrut General Engineering Catalog

4.0 PREREQUISITES

4.1 Designated engineer shall provide a work request (WR) for each unit to originate work performance in accordance with this SMI.

4.0 PREREQUISITES (continued)

4.2 The designated engineer shall provide field data packages for tubing hangers. Separate data packages for each hanger as listed in Appendix-A. The data package consists of following items.

- Data Package Cover Sheet
- Data Sheets 1 and 2
- Hanger Map (if available)
- Field sketch showing hanger to be inspected (optional)
- Copy of computer print from universal file or modification log from DNC (if available and for information only)
- Hanger Drawing
- Variance (if available)
- Mechanical drawing (if available)

The data package shall be numbered by the hanger number prefixed with the designation SMI-0-317-52. As constructed drawing shall be used in the package if available.

4.3 Hanger walkdown shall be performed during mode 5 and 6.

4.4 Designated engineer shall obtain required radiation work permits (RWP).

4.5 The following tools and equipment should be available for performing inspection.

- Flashlights
- Tape measures, scales, etc.
- Hanger identification tags
- Safety equipments such as body belts and lanyards

4.6 Scaffolds or temporary ladders shall be installed and removed after inspection work as needed to gain access to selected inspection items.

4.7 The designated engineer shall provide a briefing of the inspection requirements of this procedure to the QC inspectors and document.

5.0 PRECAUTIONS

5.1 Comply with industrial safety regulations as contained in HCI-M2 and HCI-M3.

5.2 Adhere to all plant radiological and safety procedures.

6.0 PERFORMANCE OF WORK

This instruction is a preplanned guide that establishes planning requirements, work performance instructions and documentation of work in the required sequential order.

6.1 Work Planning

The designated engineer shall complete planning of work and record the required information for each tubing hanger on each package.

6.2 Method of Inspection (Data Sheet 1)

The designated engineer will identify which line on the applicable hanger is being verified for span. This shall be accomplished by hanger map (if applicable) or field sketch which designates actual tubing configuration and identification by this inspection area which includes instrument number, Root Valve Number, etc., if field sketch needed. QC shall verify configuration and document on sketch. Engineer shall also sign sketch for verification.

6.2.1 The span between two hangers will be measured and documented on data sheet. Check two spans before and after the specified hanger. Spans will be verified by QC inspector and recorded by the designated engineer. QC inspector will sign as verifier. A sketch of tubing configuration shall be included with every data sheet. This will be either a hanger map or field sketch.

6.2.2 Check bolt tightness of hanger by hand and record on data sheet.

6.0 PERFORMANCE OF WORK (continued)

6.2 (continued)

6.2.3 Check for missing, damaged and tightness of instrument clamps or those clamps other than those allowed in 47A050 notes, sheet 17, on all lines on the designated support.

6.2.4 QC to verify hanger in accordance with typical hanger drawings for any other condition which could prevent hanger from performing required function. Document in additional comment area for items that can't be verified (i.e., hole diameter in unistrut, anchor, tightness, etc.), if so state "not able to verify" in comment section.

6.3 Reporting Discrepancies to DNE

6.3.1 The designated engineer shall provide inspection Data Sheets 2 and 3 to DNE for review. DNE shall complete Data Sheets 2 and 3 and return to the designated Maintenance Engineer.

Designated Engineers List
1) N. P. Sharma
2) A. Khanna
3) K. Chopra

6.4 Corrective Action

6.4.1 If DNE evaluates discrepancy and recommends corrective action, the work shall be performed in accordance with SQM2 or AI-19 as required.

Reviewed Page

DATA PACKAGE COVER SHEET

Instruction Title: Instrument Line Clamp Inspection

SMI-0-317-52

Data Package No. SMI-0-317-52 Unit No. _____
Equipment Identifier _____
Component Name Tubing Hanger
CSSC Equipment Yes _____ No _____
Initiating Document WR B-

Isometric/Hanger Map Drawing No. _____
Mechanical Drawing No. _____
Flow Diagram Drawing No. _____

Planned By _____ / _____
Designated Engineer Date

SMI Data Sheets Attached _____ _____

_____

Final Review

_____ / _____
Designated Engineer Date

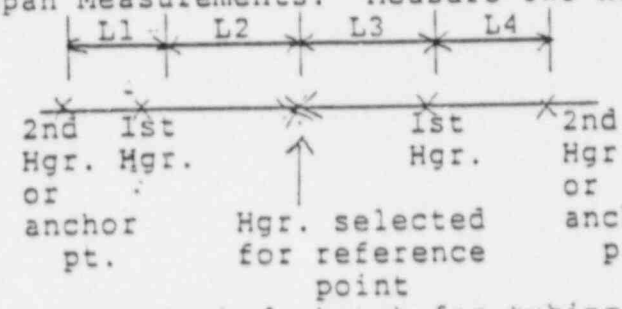
_____ / _____
Responsible Supervisor Date

_____ / _____
QA Date

DATA SHEET-1

Type of Support
Support Identification
System No._____ Type of Clamp_____
Clamp Catalog No._____
Tubing Size _____ Tubing Material_____
Building_____ Floor Elevation_____
Location_____

Span Measurements: Measure Two Hangers Both Sides



L1 _____
L2 _____
L3 _____
L4 _____

(see attached sketch for tubing configuration)

Bolt Tightness (check by hand) Loose_____ Tight_____

Any component of hanger missing or improperly installed wrong.

No_____ Yes_____ If yes, explain_____
_____

NOTE: The QC inspector was briefed by the designated engineer (as required in accordance with step 4.7) prior to performing inspection and understands the requirements of this SMI as attested by signatures below.

Recorded By_____ /_____
Designated Engineer Date

Verified By_____ /_____
QC Inspector Date

DATA SHEET 2

Inspection Data Summary For DNE Review And Recommended Corrective Action

Data Package No. SMI-0-317-52-
Discrepancy No. SMI-0-317-52-
The discrepancy log should be maintained by the designated engineer.
Support Drawing No. _____ Mark No. _____
Isometric/Hanger Map Drawing No. _____
Mechanical Drawing No. _____

Span Measurements:

L1	L2	L3	L4

L1 _____
L2 _____
L3 _____
L4 _____

2nd Hgr. or anchor pt. — 1st Hgr. — Hgr. selected for reference point — 1st Hgr. — 2nd Hgr. or anchor pt.

(see attached sheet for actual configuration)

Additional Comments _____

Data summary by _____ / _____
Designated Engineer — Date

Submit Data Summary To DNE For Review

DATA SHEET-3

DNE Review And Evaluation Of Tubing Hanger

Corrective action required? Yes_____ No_____

If yes, explain,_____

_____

_____

_____

_____ /_____
DNE Engineer Date

Return Data Sheet To Mechanical Maintenance Designated Engineer

Corrective Action and Documentation Performed

Describe work performed. List WR or work plan number used to accomplish work or documentation.

_____

_____

_____

_____ Corrective Action Reviewed. Installation Acceptable.

_____ /_____
QC Inspector Date

_____ /_____
Designated Engineer Date

APPENDIX - A

HANGER LIST

NO	HGR ID. NO.	HGR DWG NO.	MECH. DWG NO.	FLOW DIA.	LOCATION
1	A11-C5 5001 1-72-346C 0350H1AB685A	A11-5 51-12 685'	47W600-163 47W464-2	47W859-2	EL. 669' AUX. PANEL 0-L-356 A5-5
2	0350H1AB04024	A6-3' T-1' 51-12 659'	47W600-160 47W560-7	47W830-1	EL. 653' AUX. PANEL A6-T 0-L-379 SUMP TANK
3	0350H1AB01410	A7-2' V+4' 51-12 663'	47W600-93 47W432-1	47W811-1	EL. 653' AUX. PANEL 1-L-12 A7-V
4	0350H1AB13514	A9+2' V+3' 51-12 663'	47W600-93 47W432-1	47W811-1	EL. 653' AUX. PANEL 2-L-12 A10-V
5	0350H1AB01431	A7-1' V-9' 51-12 663'	47W600-93 47W432-1	47W811-1	EL. 653' AUX. PANEL 1-L-13 A7-V
6	0350H1AB13541	A9+1' V-9' 51-19 663'	47W600-93 47W432-1	47W811-1	EL. 653' AUX. PANEL 2-L-13 A10-V
7	0350H1AB00156	A1-1' U-2' 51-3 666'	47W600-131 47W437-1,6	47W812-1	EL. 653' AUX. PANEL 1-L-15 A7-U
8	0350H1AB13684	A9+3' U-2' 51-12 662'	47W600-131 47W437-1,6	47W812-1	EL. 653' AUX. PANEL 2-L-15 A9-U
9	1-72-205B 0350H1AB00124	A7-2' T+5' 51-3 665'	47W600-131 47W437-1,6	47W812-1	EL. 653' AUX PANEL 1-L-16 A7-T
10	2-70-251A 0350H1AB13531	A9+2' T+1' 51-12 664'	47W600-131 47W437-1,6	47W812-1	EL. 653' AUX. PANEL 2-L-16 A10-T
11	2-62-372C 0350H1AB01277	A5+12' S-5' 51-12 660'	47W600-114 47W555-5	47W809-3	EL. 653' AUX. PANEL 2-L-17 A9-5
12	0350H1AB00196	A4+17' S 0 51-2 676'	47W600-191 47W555-6	47W809-3	EL. 669' AUX. PANEL 1-L-150 A4-5
13	1-3-320C 0350H1AB04041	A2-1' T+3' 51-12 679'	47W600-65 47W427-1	47W803-2	EL. 669' AUX. PANEL 1-L-215 A2-U
14	0350H1AB07200	A14+11' T+12' 51-35 679'	47W600-65 47W427-1	47W803-2	EL. 669' AUX. PANEL 2-L-215A A14-U
15	1-70-292B 0350H1AB04031	A4+12' V+10' 51-12 678'	47W600-134 47W464-13	47W859-2	EL. 669' AUX. PANEL 1-L-291 A3-W
16	0350H1AB13847	A11+11' V+5' 51-12 683'	47W600-134 47W464-13	47W859-2	EL. 669' AUX, PANEL 2-L-291 A11-W
17	0350H1AB13876	A11+11' V+21' 51-12 695'	47W600-136 47W464-13	47W859-2	EL. 669' AUX. PANEL 2-L-292 A11-W
18	0350H1AB13884	A11+11' V+6' 51-19 679'	47W600-136 47W464-13	47W859-2	EL. 669' AUX, PANEL 2-L-293 A11-W
19	0350H1AB07091	A14+12' T+1' 51-35 679'	47W600-129 47W427-1	47W803-2	EL. 669' AUX., PANEL 2-L-432 A14-T
20	1-62-352C 0350H1AB00492	A3+4' U-3' 51-12 678'	47W600-82 47W491-15	47W819-1	EL 669' AUX PANEL 1-L-108A A3-U
21	2-62-353C 0350H1AB00916	A13-6' U-2' 51-12 677'	47W600-82 47W406-2	47W809-1	EL. 669' AUX. PANEL 2-L-108A A14-U
22	0350H1AB10856	A3-14' U+1' 51-19 702'	47W600-65 47W427-4	47W803-2	EL 690' AUX. PANEL 1-L-216 A2-U
		A13+12' U-1'	47W600-[illegible]		

APPENDIX - A

HANGER LIST

NO	HGR ID. NO.	HGR DWG NO.	MECH. DWG NO.	FLOW DIA.	LOCATION
24	0350H1AB09943	A13-5' V-1' 51-12 701'	47W600-175 47W400-2	47W801-1	EL. 690' AUX. PANEL 2-L-362 A13-V
25	0350H1AB09944	A13-3' V-1' 51-12 701'	47W600-31 47W400-2	47W801-1	EL. 690' AUX. PANEL 2-L-102B A13-U
26	1350H1AB729A0422V$_A$ 023	A4-V 729' 51-12	47W600-132 47W464-4	47W859-2	EL. 714' AUX. PANEL 1-L-290 A3-W
27	0350H1AB07217 2-3-3658	A13 T-2' 721' 51-12	47W600-228 47W427-4	47W803-2	EL. 714' AUX. PANEL 2-L-439 A13-S
28	1350H1AB698A0402 1-63-3066 V018	A4-2' V+18' 51-12 698'	47W600-154 47W435-1	47W811-1	EL. 690' PEN. RM. PANEL 1-L-42A A4-W
29	0350H1AB10494	A4-1' V+12' 51-21 725'	47W600-167 47W427-3	47W803-2	EL 714' AUX. PANEL 1-L-341 A4-W
30	0350H1AB07287	A11.5-17' WA-4 51-12 749'	47W600-88 47W435-24	47W811-2	EL. 740' 6" ADD'L EQUIP. BLDG PANEL 2-L-257 A11½-WA
31	1350H1AB690A0306 1-3-316B 5001	A3-5 690' 51-35	47W600-62 47W427-2	47W803-2	EL. 690' AUX. PANEL 1-L-60A T-A4
32	0350H1AB00328	A6+21' R+1' 51-12 695'	47W600-115 47W555-17	47W809-3	EL. 690' AUX. PANEL 1-L-60A A6-R
33	0350H1AB01614	A6+2' T+1' 51-12 697'	47W600-115 47W464-2	47W859-2	EL 690' AUX. PANEL 1-L-46 A6-T
34	0350H1AB09570	A12+9' T+1' 51-12 695'	47W600-174 47W555-18	47W809-3	EL 690' AUX. PANEL 2-L-47 A12-T
35	0350H1AB09954	A12+18' T-1' 51-12 701'	47W600-62 47W427-2	47W803-2	EL. 690' AUX. PANEL 2-L-214A A4-T
36	0350H1AB09095	A13-12' T 51-12 701'	47W600-62 47W427-2	47W803-2	EL. 690' AUX. PANEL 2-L-222A A13-T
37	0350H1AB04017	A15-1' T+12' 51-12 695'	47W600-168, 47W560-14	47W830-1	EL 690' AUX. PANEL 0-L-59A A14-T
38	0350H1AB09552	A13-17' U+20' 51-12 699'	47W600-115 47W406-4	47W809-1	EL. 690' AUX. PANEL 2-L-43 A13-V
39	0082HPDGH-15	47A053-136	DGB-008 17W586-3	47W839-1	D.G. BLDG. 1A1 1A2 NEAR AIR COMPRE.
40	0082HPDGH-7	47A053-136	17W586-3	47W839-1	D.G. BLDG. 1A-1 NEAR AIR COMPRE
41	0082HPDGH-23	47A053-136	17W586-3	47W839-1	D.G. BLDG. 2A-1 NEAR AIR COMPRE.
42	0082HPDGH-31	47A053-136	17W586-3	47W839-1	D.G. BLDG. 2A-A NEAR AIR COMPRE.
43	2-63-12611	47A051-12	47W625-3,4	47W848-8	ANNULUS, RB#2, AZ-285° EL.706' NEAR PEN. X-51
44	2-63-5535	47A051-21	47W625-3,4	47W848-8	ANNULUS, RB#2, AZ 257° EL.704'
45	2-63-5582	47A051-21	47W625-3,4	47W848-8	ANNULUS RB#2 AZ 257° EL 705'

APPENDIX-A

HANGER LIST

NO	HGR ID. NO.	HGR DWG NO.	MECH. DWG NO.	FLOW DIA.	LOCATION
47	0350HIXX05431	C2+3 N 674' 54-31	47W931-4	47W866-1	CONT. BLDG. DOOR C2 PANEL HV-104 EL.669'
48	0350HIXX05538	C3-3' Q 677' 54-31	47W931-4	47W866-1	CONT. BLDG. DOOR C2 PANEL HV-105
49	0350HIXX11785	C1+4' Q-4' 669' 51-38	47W450-2	47W845-4	CONT. BLDG. DOOR C2 AC-8-A 0-TCV-67-199 EL.669'
50	0350HIXX11781	C1+4 N+5 669' 51-38	47W450-2	47W845-4	CONT. BLDG. DOOR-C2 AC-A-A 0-TCV-67-195 EL.669'
51	1-43-4291	ANNULUS AZ291° 709' 51-19	47W625-3,4	47W860-1	ANNULUS RB#1 AZ 291° EL.709'
52	1-43-1104	54-3	47W625-3,4	47W860-1	ANNULUS, RB#1, AZ -227° EL.709'
53	1-43-4406	51-21	47W625-3,4	47W860-1	ANNULUS, RB#1, AZ 250° EL.705'
54	1-43-5543	51-21	47W625-3,4	47W860-1	ANNULUS, RB#1, AZ 259° EL.707'
55	025009 2350HIAB722A03	A8-S 722' 51-19	47W600-136 47W464-13	47W859-2	EL.714' AUX. BLDG. PANEL 2-L-259 A8-T
56	1-43-4237	AZ 295° 705' 51-21	47W625-3,4	47W860-1	ANNULUS, RB#1, AZ 295° EL.705'
57	1-43-4289	51-19	47W625-3,4	47W860-1	ANNULUS, RB#1, AZ 287° EL.709' PEN. X-103
58	30 044 1350HIR16880	RACEWAY AZ14° 688' 51-12	47W625-3,4	47W860-1	RACEWAY, RB#1, AZ-14° EL. 688'
59	30 014 1350HIR1688355	RACEWAY AZ355° 688' 51-12	47W625-3,4	47W860-1	RACEWAY, RB#1, AZ-355° EL. 688'
60	047 1350HIR16800760	RACEWAY AZ76° 680' 51-19	47W625-3,4	47W860-1	RACEWAY, RB#1, AZ-76° EL. 680'
61	1-68-412D 049 1350HIR16910770	RACEWAY AZ77° 691' 51-19	47W465-1	47W813-1	RACEWAY, RB#1, AZ-77° EL. 691'
62	1-70-703 045 1350HIR16881120	RACEWAY AZ112° 688' 51-12	47W464-13	47W859-2	RACEWAY, RB#1, AZ-112° EL. 688'
63	1350HIR16801130 0048	RACEWAY AZ113° 680' 51-19	47W625-3,4	47W860-1	RACEWAY, RB#1, AZ-113° EL. 680'
64	1350HIR16991603 0446	RACEWAY AZ 160° 689' 51-12	47W625-3,4	47W860-1	RACEWAY, RB#1, AZ-160° EL. 699'
65	R001 2043HIAB700A1003	A10-R EL 700' 52-20-2	47W625-3,4	47W860-1	EL.690' AUX. A10-R
66	30066 2043HIR2701323	A13 PEN.RM. 701' 52-20-5	47W625-3,4	47W860-1	EL. 690' AUX. PEN. RM. NEAR COL. A-13 ON WALL
67	0350HIXX05385	C1 Q-1' 678' 54-31	47W931-4	47W866-1	CONT. BLDG. DOOR C2 PANEL HV-104
68	0350HIXX05393	C1 Q-33' 678' 54-31	47W931-4	47W866-1	CONT. BLDG. DOOR C2 PANEL

APPENDIX - A

HANGER LIST

NO	HGR ID. NO.	HGR DWG NO.	MECH. DWG NO.	FLOW DIA.	LOCATION
70	1-68-404 M 047 1350H1R1691202304	RACEWAY AZ 202° 51-19 691'	47W465-1	47W813-1	RACEWAY, RB#1, AZ 202° EL. 691'
71	1-68-10991	RACEWAY AZ 0° 51-21 692'	47W465-1	47W813-1	RACEWAY, RB#1, AZ 0° EL. 692'
72	30X005 0350H1AB749 A11	A11-X 749' 51-1C	47W600-279 47W462-3	4[illegible]14-1	EL. 740' ADD'L EQUIP. BLDG. PANEL 0-L-442 A11½-WC
73	117 000 2350H1AB722 A07	A7-T 722' 51-12	47W600-137 47W464-8	47W[illegible]59-1	EL. 714' AUX. BLDG. PANEL 2-L-299 A6-T
74	0350H1XX07462	R2 220° 694' 51-12	47W600-28 47W464-18	47W859-1	RACEWAY, RB#2, PANEL 2-L-191 AZ 238°30'
75	2-70-295E 0350H1XX07451	R2 133° 680' 51-19	47W600-169 47W464-19	47W859-1	RACEWAY, RB#2, PANEL 2-L-351A AZ 150°
76	2-68-434[illegible] 2-68-434F 0350H1XX07850	R2 193° 690' 51-19	47W600-80 47W465-2	47W813-1	RACEWAY, RB#2, PANEL 2-L-228 AZ 195°
77	2-FM-63-65 0350H1XX07507	R2 290° 689' 51-12	47W600-166 47W560-18	47W830-1	RACEWAY, RB#2, DRAINS AZ-290° EL. 689' PANEL 2-L-190
78	2-68-424 0350H1XX07899	R2 318° 691' 51-19	47W600-80 47W465-2	47W813-1	RACEWAY RG#2 PANEL 2-L-226 AZ 310°
79	2-69-434E 0350H1XX05095	R2 65° 689' 51-19	47W600-80 47W465-2	47W813-1	RACEWAY, RB#2, PANEL 2-L-227 AZ-75°
80	2-70-317A 0350H1XX07489	R2 312° 687' 51-12	47W600-29 47W406-9	47W809-1	RACEWAY, RB#2, PANEL 2-L-195 AZ-297°
81	0350H1XX05241	R2 352° 691' 51-19	47W600-80 47W465-[illegible]	47W813-1	RACEWAY, RB#2, PANEL 2-L-227 AZ-75°
82	0350H1XX07506	R2 298° 689' 51-12	47W625-3,4	47W860-1	RACEWAY, RB#2, DRAINS AZ-298° EL. 689'
83	0350H1XX07422	R2 37° 687' 51-12	47W600-27 47W406-8	47W809-1	RACEWAY, RB#2, PANEL 2-L-183 AZ-37°

OFFICIAL

INSTRUMENT LINE SAMPLING STUDY FOR EMPLOYEE CONCERN (EC) ELEMENT NO. 173.03 — SNP/182

CEB/SQEP/C1

-ANGER_SUPPORT_DISCREPANCY INSTRUMENT_LINE

SQCG1011X54
EC 173.03

(for RIMS use) 22 — RIMS accession number

8703110051 | 32 870304 803

APPLICABLE DESIGN DOCUMENT(S)

SQN-DC-V-1.0

R 1 8705140012 (26) 35 870423 827

R _

R _

SAR SECTION(S)	UNID SYSTEM(S)

Revision 0	R1	R2	R3
ECN No. (or indicate Not Applicable) NA	NA		
Prepared C.K. Anderson 7117	C.K. Anderson		
Checked H.E. Javadi	H.E. Javadi		
Reviewed Mgr Eff for Lead Reviewer	Mgr Eff for Lead		
Approved C.N. Swanson Jr	C.N. Swanson Jr		
Date 3-2-87	4-9-87		
List all pages added by this revision.	2.1 To 2.6		
List all pages deleted by this revision.			
List all pages changed by this revision.	3, 8, 10, 13, 16, 17, 18		

(Use form 10534 if more space required)

Safety-related? Yes ☑ No ☐

Statement of Problem

EMPLOYEE CONCERN EC 173.03 IDENTIFIED POTENTIAL MISSING INSTRUMENT LINE CLAMPS IN CATAGORY I STRUCTURES AT SQN. A SAMPLE OF 60 CLAMPS WERE CHOSEN AT RANDOM AND THE SPANS ADJACENT TO THESE CLAMPS WERE MEASURED FOR EVALUATION OF POTENTIAL OVERSPANS. THIS CALCULATION WILL SUMMARIZE THE RESULTS FROM THE SAMPLING PROGRAM.

Abstract

These calculations contain an unverified assumption(s) that must be verified later. Yes ☐ No ☑

R0/ CALCULATIONS INDICATE THAT THE SAMPLED INSTRUMENT LINES AND THE CORRESPONDING SUPPORTS MEET NORMAL CODE ALLOWABLES AND ARE ACCEPTABLE AS INSTALLED.

R1/ CALCULATIONS INDICATE THAT THE SAMPLED INSTRUMENT LINES AND THE CORRESPONDING SUPPORTS MEET NORMAL CODE ALLOWABLES AND ARE ACCEPTABLE AS INSTALLED. THIS CALCULATION CONTAINS NO UNVERIFIED ASSUMPTION(S).

45 1
49 2
71 1

☐ Microfilm and store calculations in RIMS Service Center

☐ Microfilm and return calculations to

Microfilm and destroy ☐

Author

TVA 10887 (DNE 6-86)

QA Record DNE CALCULATIONS

ORIGINAL

TITLE: SUMMARY OF PIPING ANALYSIS N2-ECP-173.3-MISC	PLANT/UNIT: SQN / 1 & 2
PREPARING ORGANIZATION: SQEP / EMG # 1	KEY NOUNS (Consult RIMS DESCRIPTORS LIST): PIPING ALTERNATE ANALYSIS FOR ECP 173.3
BRANCH/PROJECT IDENTIFIERS: N2-ECP-173.3-MISC	Each time these calculations are revised, preparer must ensure that the original (R0) RIMS accession number is listed in. Rev (for RIMS' use) 372 RIMS accession number
	R0 870310A0012 B25 870305 812
APPLICABLE DESIGN DOCUMENT(S): SQN-RAH, SQN-DC-V-1.C	R 870424E0022 (439) B25 870421 808
	R _
SAR SECTION(S): 3.7.3, 3.7.2 / UNID SYSTEM(S): N/A	R _

Revision 0	R1	R2	R3
ECN No. (or indicate Not Applicable): N/A	N/A		
Preparer: D. C. Raffin 12/8/87	Raymond Fung		
Checker: Raymond Fung	D.C. Raffin		
Reviewer: [signature]	[signature]		
Approver: W. C. Kelly	W. Kenyon		
Date: 3/4/87	4/11/87		
List all pages added by this revision.			
List all pages deleted by this revision.			
List all pages changed by this revision.			

(Use form TVA 10834 if more space required)

Safety-related? Yes ☒ No ☐

Statement of Problem:
THIS CALCULATION DOCUMENTS THE RESULTS OF PIPING ANALYSIS CARRIED OUT TO EVALUATE AND QUALIFY OVERSPANS IN INSTRUMENT SENSING LINES AND AIR SAMPLING LINES AT AMBIENT TEMPERATURE.

R0 6394 1306 1743 6446

R1

Abstract

These calculations contain an unverified assumption(s) that must be verified later. Yes ☐ No ☒

COMPUTER PRINTOUT MICROFICHE NO.

DISCREPANCY NO. 16 & 65 TVA-G009292
X DISCREPANCY NO. 71 TVA-G009336
DISCREPANCY NO. 72 TVA-G009300
DISCREPANCY NO. 45 TVA-G009428

☐ Microfilm and store calculations in RIMS Service Center. Microfilm and destroy. ☐

☒ Transfer and return calculations to: LENA LOVELADY Address: DSC-G, SQNP

cc: RIMS, BL 28 C-K