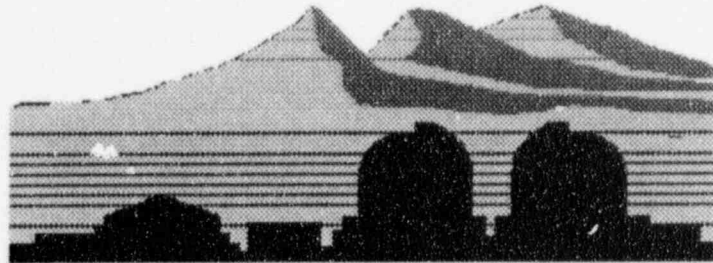


**SAN ONOFRE  
NUCLEAR GENERATING  
STATION  
UNIT 3**



**INSERVICE INSPECTION SUMMARY  
REPORT  
CYCLE-8 REFUELING OUTAGE**

**DECEMBER 13, 1995**

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**ATTACHMENTS**

- 9 List of Completed ISI NDE Examinations and System Pressure Tests
- 10 Form NIS-2 Owner's Reports For Repairs OR Replacements



## 1 INTRODUCTION

This document refers to the implementation of the Inservice Inspection (ISI) conducted at the San Onofre Nuclear Generating Station (SONGS) Unit 3 for the 40-year life of the plant from August 18, 1983 through August 18, 2023. Inspection Program B which uses a four 10-year intervals has been adopted by SONGS. These 10-year intervals are shown below:

1st Interval	August 18, 1983 thru August 17, 1993
2nd Interval	August 18, 1993 thru August 17, 2003
3rd Interval	August 18, 2003 thru August 17, 2013
4th Interval	August 18, 2013 thru August 17, 2023

Each 10-year Interval is further divided into 3 periods which is adjusted to accommodate 2 refueling outages in each period. Adjustments of the intervals to accommodate these refueling outages is allowed by the code to extend or decrease the interval by as much as 1 year. These extension was used in the 1st 10-year interval which ended in March 1994.

The 1st and 2nd 10-year intervals are:

1st Interval	August 18, 1983 thru March 31, 1994
2nd Interval	April 1, 1994 thru August 17, 2003

The 3 periods for the 2nd 10-year interval are as follows:

<u>PERIODS</u>	<u>DATES</u>	<u>OUTAGES</u>
1	Apr 1, 1994 - Aug 17, 1997	U3C8, U3C9
2	Aug 18, 1997 - Aug 17, 2001	U3C10, U3C11
3	Aug 18, 2001 - Aug 17, 2003	U3C12, U3C13

ASME Code Section XI, Article IWA-6000, Records & Reports, the ISI Program Plan Doc. # 90064 Rev.1 and the ISI procedures were used to put this report together. This report is intended to provide a summary of the ISI activities performed during the Unit 3 Cycle 8 outage. Detailed descriptions of these activities are documented, controlled and maintained in accordance with the Owner's Technical Specification commitments.

2 PLAN & SCHEDULE

CLASS	CATEGORY	TOTAL EXAMS REQUIRED	PERIOD		
			1	2	3
1	B-A	27	3	3	21
	B-B	10	2	3	5
	B-D	34	6	8	20
	B-E	55	18	18	19
	B-F	28	8	10	10
	B-G-1	264	87	87	90
	B-G-2	163	53	53	57
	B-H	2	1	0	1
	B-J	191	62	63	66
	B-K-1	10	3	3	4
	B-L-1	2	0	0	2
	B-L-2	1	0	0	1
	B-M-1	8	2	3	3
	B-M-2	11	3	4	4
	B-N-1	3	1	1	1
	B-N-2	30	0	0	30
	B-N-3	2	0	0	2
	B-O	36	0	0	36
	B-P	Each Refueling Outage			
	B-Q	Per Tech Spec			
2	C-A	15	3	6	6
	C-B	16	3	6	7
	C-C	57	18	18	21
	C-F-1	220	72	72	76
	C-F-2	31	9	10	12
	C-G	5	1	2	2
	C-H	Each Inspection Period			
	3	D-A	12	3	3
D-B		91	25	26	40
D-C		21	5	6	10
IWF	F-A	270	86	89	95

**3 SUMMARY REPORT**

**Date of Document Completion**.....December 13, 1995

**Name & Address of Owners:**

Southern California Edison  
2244 Walnut Grove Ave.  
Rosemead, CA 91770

San Diego Gas & Electric Co.  
101 Ash St.  
San Diego, CA 92112

City of Anaheim  
Public Utilities Department  
City Hall West - 11th Floor  
201 S. Anaheim Blvd.  
Anaheim, CA 92805

City of Riverside  
Public Utilities Department  
3900 Main St.  
Riverside, CA 92522

**Name & Address of Generating Plant:**

San Onofre Nuclear Generating Station  
14000 Basillone Road, 4 Miles South of San Clemente  
San Clemente, CA 92522

**Number Designation of the Unit**.....Unit 3

**Commercial Service Date for the Unit**.....April 4, 1984

REFUELING OUTAGE NO.

Refueling Outage Number:

Unit-3 Cycle-8



FORM NIS-1 (back)

- 8. Examination Date April 1, 1994 to September 26, 1995
- 9. Inspection Period Identification:  1st Period  2nd Period  3rd Period
- 10. Inspection Interval:  1st 10-Yr  2nd 10-Yr  3rd 10-Yr  4th 10-Yr
- 11. Applicable Edition of Section XI.....1989 Edition, No Addenda
- 12. Date/Revision of Inspection Plan.....October 1, 1993 Doc # 90064, Rev 1
- 13. Abstract of Examination & Test.....See page 8
- 14. Abstract of Results of Examinations & Tests:.....See page 9
- 15. Abstract of Corrective Measures:.....See page 10

We certify that a) the statement made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. N/A Expiration Date: N/A

Date 12/14 19 95 Signed Southern California Edison By M. P. [Signature]  
(Owner) Manager, Site Technical Services

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of California and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period April 1, 1994 to Dec. 13, 1995 and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions CA 1862, NB8024 ANI/ANI  
NB, State, Province or Endorsements

Date December 14, 1995

**ABSTRACT OF EXAMINATIONS & TESTS**

This report covers the Inservice examination activity conducted at the San Onofre Nuclear Generating Station (SONGS), Unit 3 between April 1, 1994 and Sept. 26, 1995. This activity is one of the two that are scheduled for the 1st period of the 2nd 10-year interval as described in the ISI Program Plan Doc. 90064, Rev. 1. The Inservice examinations were conducted in accordance with the of the ASME Boiler and Pressure Vessel Code Section XI, 1989 Edition No Addenda.

Visual examinations (VT-1,3) were performed by both SCE Quality Control Inspectors & NDE contractors on components inside/outside the containment. The services of NDE Levels-I, II & III (UT, PT, MT, & VT) were contracted to and provided by Lambert, MacGill, Thomas, Inc.

ISI Visual Examinations (VT-2) performed in conjunction with the Reactor Coolant System pressure test was performed by SCE VT Level-II examiners. List of examinations and tests are included in appendix A.

Arkwright Mutual Insurance Company provided the services of the Authorized Inspection Agency (AIA) Authorized Nuclear Inservice Inspectors (ANII's).



**ABSTRACT OF RESULTS OF EXAMINATIONS & TESTS**

The Inservice and preservice examinations conducted at SONGS 3 were performed between 4/1/94 and 9/26/95. These examinations were performed to fulfill the requirements of 10CFR50.55(G)(4) and IWA-1400, Owner's Responsibilities of ASME Code Section XI, 1989 Edition, No Addenda.

The number of components and supports for Class 1, 2 and 3 selected for examination was based on the ISI Program Plan Doc. # 90064, Rev. 1 employing Inspection Program Plan B of the ASME Code Section XI, 1989 Edition, No Addenda. This code edition also employs the Mandatory Appendix VII which requires qualification of NDE personnel for UT examination. Qualification of UT personnel includes a blind test by demonstrating the ability to find flaws on test specimens. The 1989 Edition, No Addenda of Section XI also expanded the scope of examination by including components and their connections which were greater or equal to NPS 2 per Table IWC-2500-1. These change necessitated the fabrication of additional UT calibration blocks.

The Reactor Coolant System pressure test was performed with all insulation removed on pressure retaining bolted connections as required by ASME Code Section XI 1989 Edition, No Addenda.

Originally 201 welds were scheduled to receive volumetric examination, 222 for surface examination, and a total of 207 for a combined VT-1 and VT-3. Of these welds scheduled for examinations, 195 welds were examined by UT, 215 by surface exam PT or MT and 207 by VT-1 and VT-3. The difference in numbers is attributed to those components whose scheduled examinations were deferred to the next refueling outage due to ALARA consideration or cost. However, the number of welds or components required by ASME Code to be inspected per Period, will be completed by Cycle 9 refueling outage.

All NDE examinations were found acceptable with no relevant indications.



**ABSTRACT OF CORRECTIVE MEASURES**

All the ISI NDE examinations were found acceptable with no relevant indications, hence corrective measures were not needed.

**4 ABSTRACT OF NIS-2 REPAIRS & REPLACEMENTS**

MO	EQID	Class	NIS-2	Worksum
1	92012135003 S31104CEDM #50	III-1	12/8/95	Machined valve
2	93110269001 S31201MR187	III-2	12/8/95	Replaced valve outlet tube & adapter
3	93110650000 S31204MU034	III-2	12/6/95	Resealwelded body to bonnet
4	93111806000 S31204MR434	III-2	10/24/95	Replaced valve
5	93121777000 S31204MU152	III-1	12/8/95	Replaced valve & pipe piece
6	94010478001 S31301MR034 TUBING	III-2	12/7/95	Replaced tube fitting
7	94010824000 3HV4053	III-2	12/8/95	Replaced valve plug
8	94011296001 3PV0201A	III-2	6/9/94	Replaced valve plug
9	94020204000 3PV0201A	III-2	6/9/94	Repaired leak-off pipe nipple
10	94020698000 S31204MU018	III-1	11/21/95	Replaced hinge pin cover studs & nuts
11	94020700000 S31204MU019	III-1	11/21/95	Replaced hinge pin cover studs & nuts
12	94020701000 S31204MU020	III-1	11/21/95	Replaced hinge pin cover studs & nuts
13	94020702000 S31204MU021	III-1	11/21/95	Replaced hinge pin cover studs & nuts
14	94020703000 S31204MU155	III-2	11/21/95	Replaced hinge pin cover studs & nuts
15	94020705000 S31204MU072	III-1	11/21/95	Replaced hinge pin cover studs & nuts
16	94020706000 S31204MU073	III-1	11/21/95	Replaced hinge pin cover studs & nuts
17	94020707000 S31204MU074	III-1	11/21/95	Replaced hinge pin cover studs & nuts
18	94020708000 S31204MU075	III-1	11/21/95	Replaced hinge pin cover studs & nuts
19	94020709000 S31204MU040	III-1	11/21/95	Replaced hinge pin cover studs & nuts
20	94020711000 S31204MU041	III-1	11/21/95	Replaced hinge pin cover studs & nuts
21	94020712000 S31204MU042	III-1	11/27/95	Replaced hinge pin cover studs & nuts
22	94020713000 S31204MU043	III-1	11/21/95	Replaced hinge pin cover studs & nuts
23	94021183000 3PV0201B	III-2	7/11/94	Replaced valve plug
24	94030880000 S31212MU020	III-2	4/7/95	Replaced valve disc
25	94031576000 S31305MR849 TUBING	III-2	12/6/95	Replaced tube fitting
26	94031694000 3HV0511	III-2	12/6/95	Replaced valve plug
27	94040562002 S31212MU027	III-2	12/4/95	Replaced disc
28	94052226000 3PSV9225	III-2	6/27/95	Replaced valve
29	94060676000 S31201MP003	III-1	12/4/95	Replaced mechanical seal cartridge
30	94061659001 3HV8205	III-2	12/11/95	Replaced flange studs & nuts
31	94061797000 3PSV0200	III-1	12/4/95	Replaced valve & flange bolting
32	94061806000 3PSV0201	III-1	12/4/95	Replaced valve & flange bolting
33	94062299000 3PSV8401	III-2	12/4/95	Replaced main steam safety valve & inlet nuts
34	94062304000 3PSV8404	III-2	12/4/95	Replaced main steam safety valve & inlet nuts
35	94062306000 3PSV8405	III-2	12/4/95	Replaced main steam safety valve & inlet nuts
36	94062307000 3PSV8412	III-2	12/4/95	Replaced main steam safety valve & inlet nuts
37	94062308000 3PSV8413	III-2	12/4/95	Replaced main steam safety valve & inlet nuts
38	94062312000 3PSV8418	III-2	12/6/95	Replaced main steam safety valve & inlet nuts
39	94062457002 3PI8204M	III-2	7/13/95	Replaced valve
40	94062812000 S31201MP004	III-1	12/4/95	Replaced mechanical seal cartridge
41	94070768000 S31204MR099	III-2	12/7/95	Replaced disc
42	94070913000 S31101MV001	III-1	10/24/95	Installed valve & piping assembly, replaced bolts
43	94072206000 S31201ME087	III-1	12/4/95	Performed VT1 exams
44	94072367000 3PSV9349	III-2	12/7/95	Replaced valve
45	94080918000 S31204MU017	III-2	11/21/95	Replaced hinge pin cover studs & nuts
46	94081779000 3PV0201A	III-2	12/7/95	Replaced valve plug
47	94082198000 S31201MU036	III-2	12/4/95	Replaced disc
48	94091367000 S31206MU019	III-2	12/12/95	System tie-in of tubing & valves
49	94091613000 S31204MU061	III-2	12/4/95	Replaced bonnet
50	94091981000 S31204MR103	III-2	12/7/95	Replaced valve disc

Abstract of Records of Repairs and Replacements

MO	EQID	Class	NIS-2	Worksum
51	94092095000 S31208MU029	III-2	12/4/95	Replaced disc
52	94092228000 3PSV9320	III-2	12/6/95	Replaced valve
53	94101013000 3LV0227C	III-2	12/7/95	Reseal welded body to bonnet
54	94101633000 3PI4734	III-2	8/1/95	Replaced tubing
55	94110723001 S31301ME088	III-2	10/18/95	Replaced manway cover studs & nuts
56	94110726000 S31301ME089	III-2	10/18/95	Replaced handhole stud & nut
57	94110845000 S3RC073H031	III-2	10/17/95	Snubber deletion
58	94110848000 S3RC073H038	III-2	10/18/95	Replaced snubber w/rigid strut
59	94110849000 S3CC275H008	III-2	10/17/95	Snubber deletion
60	94110850000 S3CC275H009	III-2	12/4/95	Replaced snubber w/rigid strut
61	94110851000 S3CC287H009	III-2	10/17/95	Snubber deletion
62	94110852000 S3CC287H011	III-2	10/18/95	Replaced snubber w/rigid strut
63	94110871000 S3SI077H002, H006, H008	III-2	10/23/95	Snubber deletions
64	94110878000 S3SI077H012	III-2	10/23/95	Replaced snubber w/rigid strut
65	94110881000 S3SI077H010	III-2	10/23/95	Transverse pipe stop deletion
66	94111278001 3PSV9317	III-2	6/27/95	Replaced valve
67	94111340000 S31204MR446, S31204ML048	III-2	9/7/95	Installed vent valve assembly
68	94111402000 S31204ML050	III-2	10/16/95	Prefab drain valve & piping assembly
69	94111641000 S3VC003H022	III-2	10/17/95	Snubber deletion
70	94111642000 S3VC003H019E, H019W	III-2	10/19/95	Replaced snubbers w/rigid struts
71	94111648000 S3VC008H022, H023	III-2	10/17/95	Snubber deletions
72	94111651000 S3VC058H020	III-2	10/17/95	Snubber deletion
73	94111653000 S3VC059H007, H008	III-2	10/17/95	Snubber deletions
74	94111658000 S3FS057H005B, H005T, H013	III-2	10/17/95	Snubber deletions
75	94111659000 S3BM037H002	III-2	10/31/95	Replaced snubber w/rigid strut, no vt3
76	94111665000 S3FS057H011	III-2	10/19/95	Replaced snubber w/rigid strut
77	94120245000 S31204MU073	III-1	11/21/95	Machined studs from all-thread
78	94120566000 S31206ML006, ML007, ML008, ML009	III-2	12/12/95	Material verification, prefab tubing lines (4)
79	94120583000 NON-OUT VA'S 80 & 81	III-2	12/12/95	Field installation supports, tubing (w/o tie-in)
80	94120586000 NON-OUT VA'S 82 & 83	III-2	12/12/95	Field installation supports, tubing (w/o tie-in)
81	94121048000 S31201MP002	III-1	12/8/95	Replaced seal cartridge
82	94121086000 S31204ML052	III-2	7/13/95	Installed IST vent/drain assembly
83	94121089000 S31208MR671, S31208ML007	III-2	10/20/95	Install drain valve assembly
84	94121104000 S31208MR050, MU216, ML098	III-2	10/25/95	Installs prefab IST vent/drain assembly
85	94121133000 S3CS017H002	III-2	11/2/95	Snubber deletion
86	94121135000 S3CS019H009, H010, H012	III-2	11/2/95	Snubber deletion, replaced snubbers w/rigid struts
87	94121137000 S3RC027H003, H004, H005	III-2	10/25/95	Snubber deletions, replaced snubber w/rigid strut
88	94121143000 S3SI050H003	III-2	11/2/95	Replaced snubber w/rigid strut
89	94121228000 S31206MU022, MU023	III-2	12/12/95	System tie-in of tubing & valves
90	94121304000 S31204ML048, S31204MR446	III-2	9/7/95	Material verification and prefab
91	94121348000 S31204ML052	III-2	7/13/95	Matl verif & prefab of IST vent & drain assembly
92	94121350000 S31204ML050	III-2	10/16/95	Installs new valve & piping prefab
93	94121355000 S31208MR671, S31208ML007	III-2	10/20/95	Prefab drain valve assembly
94	94121357000 S31208MR050, MU216, ML098	III-2	10/25/95	Material verification and prefab, IST vent/drain
95	95010298000 3PSV9227	III-2	12/7/95	Replaced valve
96	95010331000 3FO0296	III-1	10/24/95	Prefab reactor head vent line
97	95010798000 S3SI021H011, 014, 017, 021, 023, 31	III-2	10/23/95	Snubber deletions
98	95010799000 S3SI146H004N, H004S, S3SI164H005	III-2	10/23/95	Snubber deletions
99	95010805000 S3SI021H013	III-2	10/23/95	Spring cannister deletion
100	95010908000 S31212MU019	III-2	12/7/95	Replaced valve disc
101	95010949000 S3FS007H003, H007, H009, H022E-W	III-2	10/19/95	Snubber deletions

## Abstract of Records of Repairs and Replacements

MO	EQID	Class	NIS-2	Worksum
102	95011046000 S3SI048H004	III-2	10/23/95	Snubber deletion
103	95011047000 S3SI049H003	III-2	10/23/95	Snubber deletion
104	95011049000 S3SI048H007	III-2	10/31/95	Replaced snubber w/rigid strut, no vt3
105	95011051000 S3SI053H003	III-2	10/23/95	Replaced snubber w/rigid strut
106	95011054000 S3SI185H00A	III-2	10/23/95	Replaced snubber w/rigid strut, no vt3
107	95011092000 S3SI014H006, H011, H012	III-2	10/23/95	Snubber deletions
108	95011093000 S3SI014H007	III-2	12/7/95	Replaced snubber w/rigid strut
109	95011097000 S3SI021H002N	III-2	12/11/95	Replaced snubbers w/rigid struts
110	95011308000 S31208MF020	III-2	9/7/95	CVCS ultrafiltration, prefab cover appurtenance
111	95011313000 S3CS003H010, H053B, H053T, H063	III-2	10/17/95	Snubber deletions
112	95011314000 S3CS003H061, H065B, H065T	III-2	12/4/95	Replaced snubbers w/rigid struts, no vt3
113	95011350000 S3CS003H041	III-2	10/17/95	Snubber deletion
114	95011351000 S3CS003H043, H044, H046B-T, H047	III-2	10/18/95	Replaced snubbers w/rigid struts, no vt3
115	95011353000 S3CS003H045A, H045B	III-2	10/17/95	Spring hanger deletions
116	95011362000 S31208MF020	III-2	9/7/95	CVCS ultrafiltration, filter vessel modifications
117	95011370000 S31208MF020	III-2	9/7/95	CVCS ultrafiltration, vendor machining of housing
118	95011377000 3PSV9207, S31208ML111	III-2	9/7/95	CVCS ultrafiltration, delete relief valve, cap line
119	95011379000 S31208MU073	III-2	9/7/95	CVCS ultrafiltration, removed check vlv internals
120	95011429000 S3VC008H039	III-2	10/18/95	Replaced snubber w/rigid strut, no vt3
121	95011430000 S3VC104H019S, H019W	III-2	10/18/95	Replaced snubbers w/rigid struts, no vt3
122	95011707000 S31201ME612	III-1	12/7/95	Replaced p2r heater
123	95011742000 S3ST002H026	III-2	10/23/95	Replaced snubber w/rigid strut
124	95011744000 S3ST002H013A, H013B	III-2	10/17/95	Spring can deletion
125	95011796000 S3ST002H061	III-2	10/17/95	Snubber deletions
126	95011798000 S3ST002H059, H062, H064	III-2	10/18/95	Replaced snubbers w/rigid struts
127	95011846000 S3FS107H002	III-2	10/18/95	Snubber deletion
128	95011850000 S3FS107H006, H007B-T	III-2	12/4/95	Replaced snubbers w/rigid struts
129	95011914002 S31201ME604	III-1	12/6/95	Reinstalled heater and plugged
130	95031331000 3PSV9225	III-2	12/11/95	Replaced valve
131	95032108000 S31204MR208	III-2	12/7/95	Replaced valve disc
132	95040076000 S3ST580H002	III-2	12/11/95	Replaced rigid strut w/snubber
133	95040255001 S31301ME088	III-2	10/18/95	Replaced manway cover studs & nuts
134	95040276000 S31220MX015	III-2	8/29/95	Repaired fuel transfer tube
135	95040277001 S31301ME089	III-2	10/19/95	Replaced manway cover studs & nuts
136	95040293000 S312G8MP190	III-2	12/7/95	Replaced valve stem
137	95040418000 3HV9327	III-2	12/8/95	Replaced disc
138	95040859000 S31305ML189, 3-FW-189-006	III-2	10/16/95	Repair, flush ground ISI weld
139	95040861000 S31305ML190, 3-FW-190-006	III-2	10/16/95	Repair, flush ground ISI weld
140	95050270000 S31204MU012	III-2	11/21/95	Replaced valve disc
141	95051298001 S31301MR795	III-2	12/7/95	Replaced valve disc
142	95051388000 3PSV9387	III-2	12/8/95	Replaced valve & inlet flange studs
143	95051680000 S31201ME604	III-1	12/6/95	Heater removal support
144	95061363000 S31201ME604	III-1	12/6/95	Removed core of abandoned heater
145	95061657000 S31212ML004	III-2	12/8/95	Deleted valve and capped line
146	95070703000 S3ST016H703	III-2	11/16/95	Replaced load pin
147	95070705000 S3ST018H041	III-2	10/20/95	Replaced load pin
148	95070706000 S3SI063H714	III-1	10/23/95	Replaced load stud w/load pin
149	95071200000 S3SI165H008	III-1	12/6/95	Replaced pipe lugs
150	95071226000 3PSV8156	III-2	12/7/95	Replaced valve
151	95071272000 S31201MU021	III-1	11/21/95	Replaced disc & cover
152	95071274000 S31201MU020	III-1	12/8/95	Replaced valve disc

MO	EQID	Class	NIS-2	Worksum	
153	95071278001	3HV5686	III-2	12/7/95	Machined bonnet seat and face
154	95071396000	FGD-J3-PD-0120	III-2	12/11/95	Replaced 3-valve manifold
155	95071661001	S31201ME604	III-1	12/6/95	Machined heater plug from bar stock
156	95071689000	S3RCPLTH001	III-1	10/18/95	Repaired pipe guide
157	95071698000	S3RCPLTH003	III-1	10/18/95	Repaired pipe guide
158	95071738000	S3ST014H756	III-2	10/18/95	Replaced snubber
159	95071739000	S3ST610H002	III-2	10/18/95	Replaced snubber
160	95080046000	S3SS042H010	III-2	10/18/95	Replaced snubber
161	95080217001	S3ST001H065	III-2	11/16/95	Replaced load pin
162	95080345000	S3SI053H003	III-2	10/23/95	Replaced load stud
163	95080387000	S31201ME087	III-1	11/27/95	VT2 of RCS nozzles, WSI nozzle replacements
164	95080387000	S31201ML311,ML312,ML313,ML314	III-1	11/21/95	VT2, WSI piping reinstallation, new fittings
165	95080389000	S3SI048H007	III-2	10/31/95	Replaced load stud
166	95080440000	S31201ML156	III-2	12/8/95	Replaced flange bolting
167	95080452000	3FE0348	III-2	12/8/95	Replaced studs & nuts
168	95080871001	S31201MP002	III-1	12/8/95	Replaced heat exchanger to driver mount bolting
169	95080876000	S31208ME062	III-2	12/8/95	Replaced manway cover studs/nuts
170	95080898000	S3SI063H712	III-1	10/23/95	Replaced snubber
171	95080905000	S31104CEDM #50	III-1	12/8/95	Machined ball seal housing
172	95081076000	S3SI165H006	III-1	10/23/95	Replaced snubber
173	95081091000	3TE0122-1	III-1	11/21/95	Prefab/installation of RTD nozzle, PDT nozzle
174	95081112000	S3SI087H021	III-2	10/23/95	Replaced snubber
175	95081331000	S3FW189H010T	III-2	10/18/95	Replaced snubber
176	95081483000	S3RCP01H001	III-1	9/29/95	Repaired snubber, drilled hole in clevis
177	95081590000	S3ST002H026	III-2	10/23/95	Replaced snubber w/rigid strut
178	95081597000	S31301MU597	III-2	11/21/95	Replaced valve
179	95081602000	S3RCP02H001	III-1	10/18/95	Repaired snubber
180	95081626000	S3RCP02H001	III-1	9/29/95	Repaired snubber, drilled hole in clevis
181	95081629000	S31201MP003	III-1	9/29/95	Repaired snubber, drilled hole in clevis
182	95081630000	S3RCP04H001	III-1	9/29/95	Repaired snubber, drilled hole in clevis
183	95081797000	S3ST002H064	III-2	10/18/95	Replaced load pins
184	95082156000	S31104CEDM #76	III-1	12/4/95	Seal weld housing nut to ball seal
185	95090062000	3HV0509	III-2	12/8/95	Replaced valve plug
186	95090111000	S31201ME087	III-1	12/4/95	Replaced manway stud
187	95090157000	S3ST016H703	III-2	11/16/95	Replaced snubber
188	95090158000	S3ST016H701	III-2	10/18/95	Replaced load pin w/cotter type
189	95090165000	S3ST580H002	III-2	12/11/95	Replaced load pin
190	95090476001	S3ST580H002	III-2	12/11/95	Machined load pin
191	95090504000	S31201ML126, 3-RC-126-1H	III-1	12/4/95	Replaced blind flange
192	95090910000	3FT6312 3-VALVE MANIFOLD	III-2	12/7/95	Replaced 3-valve manifold



## 5 NDE RECORDS

### NDE PROCEDURES:

SO23-XXVII-20.28	Ultrasonic Examination of Reactor Vessel Flange Stud Hole Threads
SO23-XXVII-20.47	Magnetic Particle Examination
SO23-XXVII-20.48	Liquid Penetrant Examination
SO23-XXVII-20.49	Visual Examination Procedure to Determine the Condition of Nuclear Parts, Components and Surfaces
SO23-XXVII-20.50	Visual Examination Procedure for the Evidence of Leakage
SO23-XXVII-20.51	Visual Examination Procedure for Operability of Nuclear Components and Supports and Conditions Relating to their Functional Adequacy
SO23-XXVII-20.52	UT Examination of Nozzle Inner Radius Areas
SO23-XXVII-20.53	UT Examination of Thickness Measurement
SO23-XXVII-20.54	UT Examination of Nuclear Cooling System Ferritic Piping
SO23-XXVII-20.55	UT Examination of Nuclear Cooling System Austenitic Piping
SO23-XXVII-20.56	UT Flaw Sizing
SO23-XXVII-20.57	UT Examination of Steel Forged Bolts & Studs, 2" and Greater in Diameter.
SO23-XXVII-20.58	UT Examination of Ferritic Steel Welds Using Time-of-Flight Diffraction Method
SO23-XXVII-20.59	Planar Size Characterization to ASME Section XI Code Requirements
SO23-XXVII-20.60	Permanent Weld Marking
SO23-XXVII-20.61	Preparation of the "ADAM" System
SO23-XXVII-20.62	Evaluation & Analysis of UT C-Scan Data Using ADAM Plus UT Imaging System
SO23-XXVII-20.63	UT of Reactor Coolant Pump Flywheel
SO23-XXVII-20.66	UT of Vessel Welds & Adjacent Base Metal

NDE PERSONNEL CERTIFICATION RECORDS

<u>NAMES</u>	<u>METHOD</u>	<u>LEVEL</u>	<u>Cert</u>	<u>Eye Test</u>
<u>Lambert MacGill &amp; Thomas, Inc.</u>				
Elwin L. Thomas	PT, MT, UT	III	X	X
	VT-1,2,3,4	III	X	X
Scott Erickson	MT, PT	III	X	X
	VT-1,2,3,4	III	X	X
	UT	II	X	X
Mark Seiwald	ET,	I	X	X
	MT, PT, UT, VT-1	II	X	X
<u>Southern California Edison</u>				
Jason Janke	VT-1,2,3,4	II	X	X
T. M. Pierno	VT-1,2,3	II	X	X
R. Keller	VT-1,2,3	II	X	X
J.B. Seaholts	VT-1,2,3,4	II	X	X
Paul F. Haderlie	VT-1,2,3,4	II	X	X



**6 ISI PROCEDURES & TRAVELERS**

**ISI Procedures**

- SO23-IN-1 Inservice Inspection Program
- SO123-XVII-1 Inservice Inspection Program Implementation
- SO123-XVII-1.1 Inservice Inspection Maintenance
- SO123-XVII-3.1 Inservice Inspection of Class 1 Components and Their Supports
- SO123-3.1.1 Refueling Outage Interval Examination of the Reactor Coolant Pressure Boundary to Detect Leakage
- SO23-XVII-3.2 Inservice Inspection of Class 2 Components and Their Supports
- SO23-XVII-3.3 Inservice Inspection of Class 3 Components and Their Supports
- SO123-XVII-2 Inservice Inspection of Reactor Coolant Pump Flywheels

**ISI Construction Work Orders (Travelers)**

Inside Containment.....	94120418
Outside Containment.....	94082526

## 7 AUGMENTED EXAMINATIONS

### Low Pressure Turbine Disc UT Examination

ISI ID	Repetitive Maintenance Order (Traveler)
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S31301MK003	20000661200
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S31301MK004	20001661200
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**8.0 STEAM GENERATOR EXAMINATIONS**



*Southern California Edison Company*

P. O. BOX 128

SAN CLEMENTE, CALIFORNIA 92674-0128

November 27, 1995

WALTER C. MARSH  
MANAGER OF NUCLEAR REGULATORY AFFAIRS

TELEPHONE  
(714) 368-7501

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Subject: Docket No. 50-362  
Special Report, Steam Generator Tubes Inservice Inspection  
San Onofre Nuclear Generating Station, Unit 3

Reference: PWR Steam Generator Examination Guidelines, Revision 3,  
Electric Power Research Institute (EPRI) Report  
Number NP-6201, dated November 1992.

Pursuant to Surveillance Requirement 4.4.4.5(b) of Appendix A, Technical Specifications to Facility Operating License NPF-15, this report is being submitted to the Commission following the completion of an inservice inspection of steam generator tubes at San Onofre Unit 3.

Eddy current inspection of the steam generator tubing was completed on August 17, 1995. A total of 18,086 tubes (100% of the tubes in service) in two steam generators were inspected full length and 31 tubes were removed from service by mechanical plugging. This inspection significantly exceeded the inspection requirements of Surveillance Requirements 4.4.4.0 through 4.4.4.2.

The planned inspection programs for both steam generators were fully consistent with industry recommendations in the "PWR Steam Generator Examination Guidelines". The programs included inspection of the full length of all tubes with the bobbin probe, and inspection of all tubes with a rotating probe at the inlet top-of-tubesheet location. Further, they included inspection of 20% of the tubing with a rotating probe at the outlet top-of-tubesheet location, and full length profilometry of all tubes adjacent to tie rods.

In Steam Generator E-088, 9047 tubes were inspected full length. Fourteen tubes were preventively plugged due to degradation at a vertical strap support. Two tubes were preventively plugged due to degradation at an eggcrate support. One tube was found to exhibit distortion of the eddy current signal at the tube expansion transition at the inlet top-of-tubesheet location and was preventively plugged.

One tube in E-088 had a non-quantifiable indication by bobbin probe at the diagonal support on the inlet side of the tube, and was plugged. Rotating probe testing of the indication in this tube indicated volumetric (i.e., no specific axial or circumferential aspect) degradation.

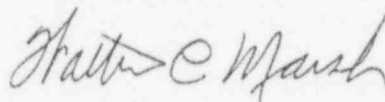
Also in E-088, two tubes had a non-quantifiable indication, and one tube had a less than 20% indication, by bobbin probe, in the vicinity of or between the ninth eggcrate support and the diagonal support on the inlet side of the tube. In subsequent testing of these tubes and surrounding tubes, by a rotating probe, two additional tubes with a similar single volumetric indication at a similar location were identified. All five of these tubes were plugged.

In Steam Generator E-089, 9039 tubes were inspected full length. One tube was found by a rotating probe to have a circumferential indication at the inlet top-of-tubesheet location and was plugged. One tube was found to be defective due to a 49% throughwall indication above the lowest eggcrate support on the outlet side of the tube, and was plugged. One tube was found to be defective due to a 44% throughwall indication at a diagonal support on the inlet side of the tube, and was plugged. Two tubes were found by rotating probe to have a single volumetric indication at the outlet top-of-tubesheet and were plugged. Three tubes were preventively plugged due to degradation at a vertical strap support.

As required by Surveillance Requirement 4.4.4.5(b), complete results of the recently completed inservice inspection of steam generator tubing are provided in the enclosures. Enclosure 1 provides the steam generator internal location reference guide. The eddy-current indication locations listed in the remaining enclosures are based upon this guide. Enclosure 2 provides a list of abbreviations used to describe the indications from rotating probe testing in the remaining enclosures. Enclosures 3 and 5 provide a list of eddy current testing indications, including tube identification, indication depth for bobbin probe indications, indication description for rotating probe indications, and the axial location of the indication in the tube. Enclosures 4 and 6 provide a list of tubes plugged after completion of the inservice inspection.

If you require any additional information, please so advise.

Sincerely,



Enclosures (6)

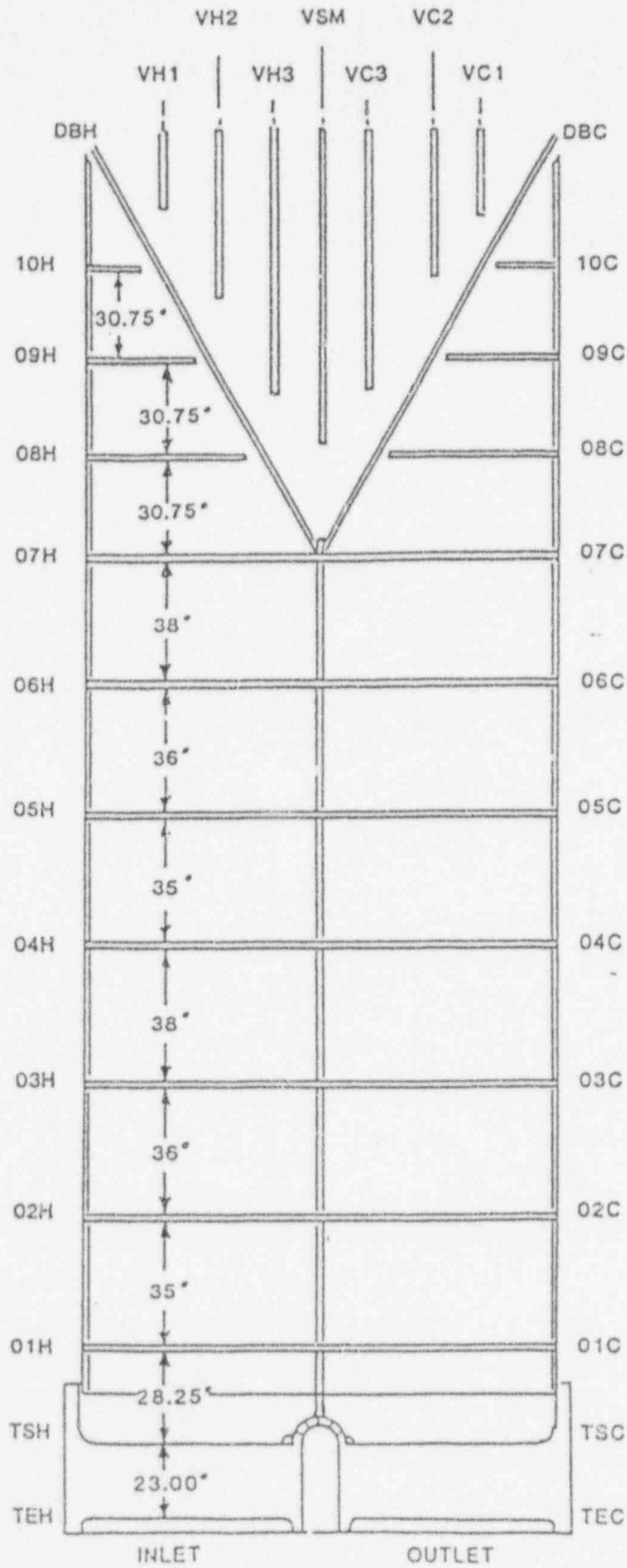
cc: L. J. Callan, Regional Administrator, NRC Region IV  
J. E. Dyer, Director, Division of Reactor Projects, NRC Region IV  
K. E. Perkins, Jr., Director, Walnut Creek Field Office, NRC Region IV  
J. A. Sloan, NRC Senior Resident, San Onofre Units 1, 2 & 3  
M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3  
Institute of Nuclear Power Operations (INPO)

The following Code Cases of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, were used:

- N-401-1: Digitized Collection and Storage of Eddy Current Test Data
- N-402-1: Eddy Current Calibration Standards

Enclosure 1

CE MODEL 3410 TUBE SUPPORT DRAWING



## Enclosure 1

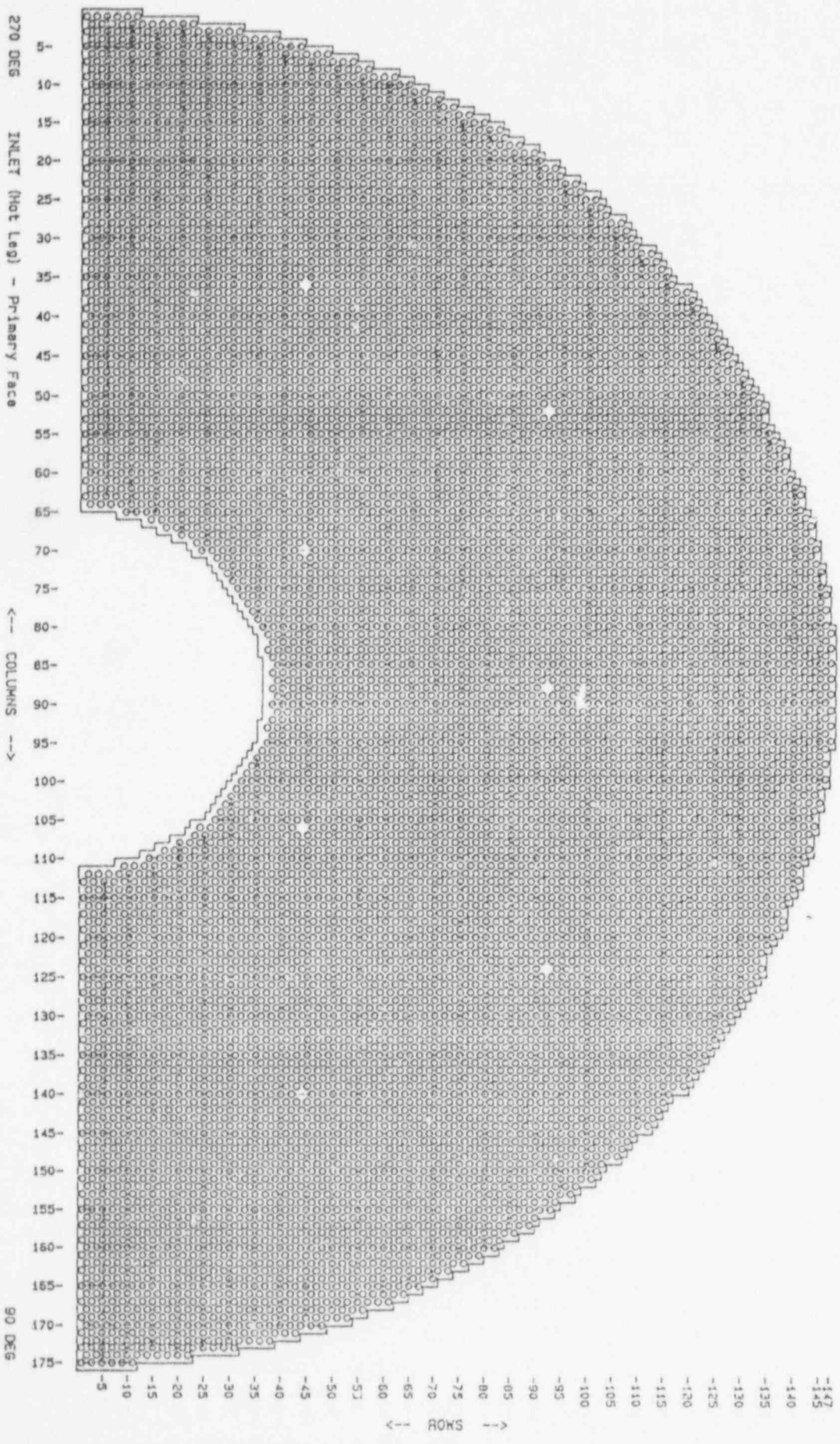
CLARIFICATION OF TUBING/SUPPORT INTERFACES  
 ABOVE THE 7TH FULL EGGCRATE SUPPORT

<u>ROW(S)</u>	<u>TUBING/SUPPORT INTERFACES</u>					
120-147	08H, 09H, 10H, DBH, VH1, VH2, VH3, VSM, VC3, VC2, VC1, DBC, 10C, 09C, 08C					
115-119	08H, 09H	DBH, VH1, VH2, VH3, VSM, VC3, VC2, VC1, DBC	09C, 08C			
84-114	08H, 09H	DBH	VH2, VH3, VSM, VC3, VC2	DBC	09C, 08C	
83	08H	DBH	VH2, VH3, VSM, VC3, VC2	DBC	08C	
51-82	08H	DBH	VH3, VSM, VC3,	DBC	08C	
49-50	08H	DBH	VSM	DBC	08C	
19-48		DBH	VSM	DBC		
1-18		DBH		DBC		



COMBUSTION ENGINEERING MODEL 3410 STEAM GENERATOR TUBESHEET MAP

TOTAL TUBES : 9350



270 DEG INLET (Hot Leg) - Primary Face

<-- COLUMNS -->

90 DEG

<-- ROWS -->



Enclosure 2

LIST OF ABBREVIATIONS USED TO DESCRIBE THE INDICATIONS  
FROM ROTATING PROBE TESTING

Abbreviation

Explanation of the Abbreviation

SCI	Single Circumferential Indication
MCI	Multiple Circumferential Indications
SAI	Single Axial Indication
MAI	Multiple Axial Indications
SVI	Single Volumetric Indication (i.e., no specific axial or circumferential aspect)

ENCLOSURE (3)

CUMULATIVE REPORT

07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 1 OF 5  
 DATE: 08/25/95  
 TIME: 08:32:31

ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
43	5	07/95		C	TEC-TEH	TEC-TEH		00034	580UL	04C-	0.14	0.23	0	<20	P	2
37	7	07/95		C	TEC-TEH	TEC-TEH		00034	580UL	05H+	3.40	0.70	154	<20		1
78	26	07/95		C	TEC-TEH	TEC-TEH		00057	580UL	VC7+	1.02	0.53	0	28	P	2
86	28	07/95		C	TEC-TEH	TEC-TEH		00057	580UL	VSM-	1.17	0.19	0	<20	P	2
89	29	07/95		C	TEC-TEH	TEC-TEH		00078	580UL	VH2+	0.30	0.43	0	20	P	2
80	30	07/95		C	TEC-TEH	TEC-TEH		00056	580UL	TSC+	2.15	0.43	155	<20		1
102	30	07/95		C	TEC-TEH	TEC-TEH		00078	580UL	08C-	0.97	0.48	0	21	P	2
104	30	07/95		C	TEC-TEH	TEC-TEH		00056	580UL	VH2-	0.71	0.67	0	25	P	2
		07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH2+	0.41	0.77	0	34	P	2
		07/95		C	TEC-TEH	TEC-TEH		00056	580UL	VC2+	0.86	0.25	0	<20	P	2
75	31	07/95		C	TEC-TEH	TEC-TEH		00078	580UL	VH3+	0.89	0.30	0	<20	P	2
76	34	07/95		C	TEC-TEH	TEC-TEH		00058	580UL	VH3+	0.82	0.46	0	23	P	2
114	34	07/95		C	TEC-TEH	TEC-TEH		00058	580UL	08C-	1.83	0.49	0	22	P	2
97	35	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	01H+	12.14	0.95	153	<20		1
82	36	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	VH3-	0.12	0.46	0	26	P	2
112	38	07/95		C	TEC-TEH	TEC-TEH		00078	580UL	VC2-	0.24	0.61	0	26	P	2
81	43	07/95		C	TEC-TEH	TEC-TEH		00058	580UL	VH3-	0.63	0.54	0	24	P	2
60	44	07/95		C	TEC-TEH	TEC-TEH		00042	580UL	VC3+	1.25	0.26	0	<20	P	2
27	45	07/95		C	TEC-TEH	TEC-TEH		00051	580UL	02H+	25.36	1.01	158	<20		1
49	45	07/95		C	TEC-TEH	TEC-TEH		00042	580UL	08H+	1.56	0.44	0	<20	P	2
86	46	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	08H+	2.43	0.38	0	24	P	2
71	47	07/95		C	TEC-TEH	TEC-TEH		00054	580UL	VSM-	0.93	0.52	0	25	P	2
89	47	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VSM+	0.98	0.16	0	<20	P	2
76	48	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VSM-	0.81	0.34	0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VSM+	0.93	0.34	0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VC3+	1.02	0.20	0	<20	P	2
94	48	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	VH2+	0.83	0.45	0	27	P	2
98	48	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	VC2+	0.76	0.26	0	<20	P	2
113	49	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	08H+	1.78	0.31	0	<20	P	2
106	50	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	VH2+	0.80	0.39	0	24	P	2
		07/95		C	TEC-TEH	TEC-TEH		00061	580UL	VH3+	0.80	0.20	0	<20	P	2
131	51	07/95		C	TEC-TEH	TEC-TEH		00073	580UL	08C+	1.85	0.45	0	25	P	2
126	52	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VH1+	1.12	0.15	0	<20	P	2
126	54	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VH1-	0.85	0.36	0	<20	P	2
128	56	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH1+	0.75	0.66	0	32	P	2
112	58	07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VH2-	0.72	0.35	0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VH2+	0.96	0.36	0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VH3+	0.96	0.41	0	<20	P	2
126	58	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VH1-	0.91	0.58	0	24	P	2
25	59	07/95		C	TEC-TEH	TEC-TEH		00051	580UL	TSH+	9.93	0.36	149	<20		1
73	61	07/95		C	TEC-TEH	TEC-TEH		00063	580UL	VSM+	1.06	0.28	0	<20	P	2
137	61	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VC1-	0.73	0.48	0	21	P	2
140	62	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	09H+	0.84	0.29	0	<20	P	2
81	65	07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VSM+	0.94	0.51	0	24	P	2
141	65	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	08C+	1.90	0.49	0	<20	P	2

CUMULATIVE REPORT  
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 2 OF 5  
DATE: 08/25/95  
TIME: 08:32:31

ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
118	66	07/95		C	TEC-TEH	TEC-TEH		00063	580UL	06H+	3.03	1.18	149	<20	P	1
126	66	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1-	0.76	0.37	0	<20	P	2
142	66	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBH+	1.95	0.40	0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1+	0.90	0.43	0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	1.91	0.45	0	<20	P	2
97	67	07/95		C	TEC-TEH	TEC-TEH		00063	580UL	09H+	0.98	0.72	0	33	P	2
141	57	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBH-	0.91	0.25	0	<20	P	2
82	68	07/95		C	TEC-TEH	TEC-TEH		00065	580UL	VH3-	1.00	0.14	0	<20	P	2
110	68	07/95		C	TEC-TEH	TEC-TEH		00065	580UL	VH2-	0.81	0.21	0	<20	P	2
43	69	07/95		C	TEC-TEH	TEC-TEH		00054	580UL	VSM-	0.84	0.24	0	<20	P	2
81	69	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	VC3+	0.73	0.50	0	20	P	2
91	69	07/95		C	TEC-TEH	TEC-TEH		00065	580UL	08H+	0.77	0.21	0	<20	P	2
103	69	07/95		H	09H-DBH	DBH-DBH		00127	600PP	DBH+	1.53	0.18	0	SV1		5
		07/95		C	TEC-TEH	TEC-TEH		00065	580UL	DBH+	1.56	0.21	0	<20	P	2
		07/95		H	09H-DBH	09H-DBH		00122	600RC	DBH+	1.86	0.67	0	SV1		4
100	70	07/95		H	09H-09H	09H-09H		00118	600RC	09H+	15.93	0.73	0	SV1		4
102	70	07/95		H	09H-DBH	09H-DBH		00122	600RC	09H+	15.30	0.87	0	SV1		4
104	70	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	VC3-	0.96	0.59	0	23	P	2
142	70	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	2.08	0.42	0	<20	P	2
144	70	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	2.01	0.63	0	20	P	2
77	71	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	VH3+	0.80	0.59	0	23	P	2
105	71	07/95		H	09H-DBH	09H-DBH		00122	600RC	DBH+	2.14	0.60	0	SV1		4
44	72	07/95		C	TEC-TEH	TEC-TEH		00054	580UL	VSM-	0.93	0.32	0	<20	P	2
138	72	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	02C-	0.80	0.59	0	<20	P	2
144	72	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH2-	0.90	0.25	0	<20	P	2
37	73	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VSM+	0.61	0.73	0	33	P	2
39	73	07/95		C	TEC-TEH	TEC-TEH		00052	580UL	VSM+	1.04	0.29	0	<20	P	2
81	73	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	VSM-	0.90	0.42	0	<20	P	2
97	73	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	08H+	0.69	0.42	0	<20	P	2
99	73	07/95		C	TEC-TEH	TEC-TEH		00065	580UL	09H+	0.83	0.47	0	26	P	2
		07/95		H	09H-09H	09H-DBH		00118	600RC	09H+	12.17	0.39	0	SV1		1
94	74	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	09H-	0.37	0.26	0	<20	P	2
130	74	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1-	0.94	0.17	0	<20	P	2
132	74	07/95		C	TEC-TEH	TEC-TEH		00075	580UL	VH1-	0.91	0.32	0	20	P	2
138	74	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1-	0.91	0.74	0	23	P	2
39	75	07/95		C	TEC-TEH	TEC-TEH		00052	580UL	VSM+	1.04	0.32	0	<20	P	2
75	75	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	VSM-	0.86	0.23	0	<20	P	2
93	75	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	09H-	0.26	0.25	0	<20	P	2
95	75	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	09H+	0.62	0.29	0	<20	P	2
138	76	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1-	0.23	0.24	0	<20	P	2
144	76	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	04H-	1.00	0.40	0	<20	P	2
146	76	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBH+	1.81	0.40	0	<20	P	2
77	77	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VH3+	0.85	0.35	0	<20	P	2
146	78	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	2.00	0.43	0	<20	P	2
47	79	07/95		C	TEC-TEH	TEC-TEH		00052	580UL	VSM+	0.79	0.30	0	<20	P	2

CUMULATIVE REPORT  
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 3 OF 5  
DATE: 08/25/95  
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ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DFG	%	CH	CHNG
133	79	07/95		C	TEC-TEH	TEC-TEH		00075	580UL	VH1- 1.04	0.30		0	<20	P	2
146	80	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBH+ 1.86	0.25		0	<20	P	2
75	81	07/95		C	TEC-TEH	TEC-TEH		00069	580UL	VH3+ 0.83	0.45		0	24	P	2
136	82	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1+ 0.82	0.46		0	<20	P	2
102	84	07/95		C	TEC-TEH	TEC-TEH		00069	580UL	DBH+ 1.61	0.17		0	<20	P	2
114	84	07/95		C	TEC-TEH	TEC-TEH		00068	580UL	DBH+ 1.95	0.44		0	<20	P	2
51	85	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	03C+ 18.43	0.81	158	<20			1
106	86	07/95		C	TEC-TEH	TEC-TEH		00069	580UL	VH3- 0.65	0.21		0	<20	P	2
134	86	07/95		C	TEC-TEH	TEC-TEH		00075	580UL	VH1- 0.91	0.85		0	34	P	2
47	87	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBH+ 1.78	0.14		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00125	580UL	VSM- 0.63	0.16		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBH+ 2.04	0.29		0	<20	P	2
50	88	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBH- 1.50	0.21		0	<20	P	2
138	88	07/95		C	TEC-TEH	TEC-TEH		00118	580UL	VH1- 0.80	0.38		0	<20	P	2
147	89	07/95		C	TEC-TEH	TEC-TEH		00118	580UL	DBH- 1.95	0.56		0	26	P	2
138	90	07/95		C	TEC-TEH	TEC-TEH		00118	580UL	VH1- 0.78	0.88		0	24	P	2
		07/95		C	TEC-TEH	TEC-TEH		00118	580UL	01C+ 12.42	2.27	155	<20			1
81	91	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VC3- 0.03	1.05		0	36	P	1
134	92	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH1- 0.85	0.93		0	37	P	2
146	92	07/95		C	TEC-TEH	TEC-TEH		00118	580UL	10C+ 0.80	0.28		0	<20	P	2
51	93	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBH- 1.41	0.35		0	<20	P	2
75	93	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM+ 0.99	0.24		0	<20	P	2
77	93	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VSM+ 0.54	0.69		0	33	P	2
79	93	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VH3+ 1.19	0.28		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM+ 0.94	0.47		0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VC3- 0.81	0.33		0	<20	P	2
136	94	07/95		C	TEC-TEH	TEC-TEH		00119	580UL	VH1- 0.97	0.65		0	31	P	2
144	96	07/95		C	TEC-TEH	TEC-TEH		00119	580UL	VH1+ 0.86	0.43		0	25	P	2
82	98	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VH3- 0.79	0.32		0	<20	P	2
94	98	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	02H- 1.21	0.24		0	21	P	2
46	100	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	DBH+ 1.82	0.33		0	<20	P	2
92	100	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	09H- 0.84	0.50		0	25	P	2
43	101	07/95		C	TEC-TEH	TEC-01H		00094	580UL	VSM- 0.65	0.44		0	<20	P	2
79	101	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VH3- 0.84	0.40		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VH3+ 0.87	0.40		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM- 0.82	0.25		0	<20	P	2
134	102	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH2+ 0.63	0.29		0	<20	P	2
135	103	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 0.81	0.46		0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1+ 0.90	0.53		0	23	P	2
		07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH2- 0.78	0.43		0	20	P	2
126	104	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 0.92	0.29		0	<20	P	2
134	104	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 0.82	0.17		0	<20	P	2
142	104	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	DBH+ 1.84	0.27		0	<20	P	2
91	105	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	09H- 0.21	0.28		0	25	P	2
105	105	07/95		C	TEC-TEH	TEC-TEH		00114	580UL	VH2- 0.45	0.14		0	<20	P	2



CUMULATIVE REPORT  
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 08/25/95  
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ROW	COL	EXAM DATE	HEAT#	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
38	106	07/95		C	TEC-TEH	TEC-TEH		00093	580UL	VSM+	1.02	0.18		0	<20	P 2
134	106	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1-	1.09	0.29		0	<20	P 2
111	107	07/95		C	TEC-TEH	TEC-TEH		00115	580UL	VH2-	1.18	0.37		0	20	P 2
94	108	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	09H+	0.24	0.30		0	25	P 2
136	108	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1-	0.79	0.35		0	<20	P 2
		07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1+	0.64	0.25		0	<20	P 2
75	109	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VSM-	0.96	0.46		0	26	P 2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM-	0.89	0.48		0	26	P 2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM+	0.76	0.40		0	29	P 2
143	109	07/95		C	TEC-TEH	TEC-TEH		00116	580UL	VH2-	0.89	0.32		0	<20	P 2
73	111	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM+	0.66	0.58		0	24	P 2
48	112	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VSM+	0.79	0.49		0	21	P 2
84	112	07/95		C	TEC-TEH	TEC-TEH		00108	580UL	09H+	1.62	0.33		0	<20	P 2
92	112	07/95		C	TEC-TEH	TEC-TEH		00108	580UL	09H+	0.31	0.49		0	<20	P 2
81	113	07/95		C	TEC-TEH	TEC-TEH		00108	580UL	VSM-	0.74	0.68		0	23	P 2
139	115	07/95		C	TEC-TEH	TEC-TEH		00116	580UL	VH1+	0.98	0.27		0	<20	P 2
128	116	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1+	0.82	0.16		0	<20	P 2
123	121	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1-	0.82	0.28		0	<20	P 2
112	122	07/95		C	TEC-TEH	TEC-TEH		00114	580UL	04C-	1.04	0.29		0	<20	P 2
78	124	07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VH3+	0.83	0.22		0	<20	P 2
		07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VC3+	0.83	0.16		0	<20	P 2
134	124	07/95		C	TEC-TEH	TSC-TEH		00116	580UL	06H-	0.84	0.26		0	<20	P 2
35	125	07/95		C	TEC-TEH	TEC-TEH		00089	580UL	VSM+	0.56	0.21		0	<20	P 2
81	125	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH3+	1.01	0.60		0	30	P 2
		07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VC3+	0.85	0.41		0	<20	P 2
80	126	07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VH3+	0.66	0.99		0	35	P 2
		07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VC3+	0.87	0.43		0	<20	P 2
82	126	07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VH3+	0.97	0.45		0	24	P 2
		07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VSM-	0.70	0.47		0	24	P 2
		07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VC3-	0.59	0.61		0	31	P 2
		07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VC3+	0.81	0.63		0	31	P 2
76	128	07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VC3-	0.81	1.03		0	35	P 2
82	128	07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VH3-	0.79	0.59		0	28	P 2
3	129	07/95		C	TEC-07H	TEC-07H		00082	580UL	03C+	21.99	1.13	148	<20	1	
83	129	07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VH2+	0.85	0.57		0	27	P 2
108	130	07/95		C	TEC-TEH	TEC-TEH		00114	580UL	VH2+	0.87	0.24		0	<20	P 2
		07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH3-	0.92	0.76		0	34	P 2
		07/95		C	TEC-TEH	TEC-TEH		00114	580UL	VC3-	0.51	0.38		0	<20	P 2
77	131	07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VH3-	0.80	0.39		0	<20	P 2
112	132	07/95		C	TEC-TEH	TEC-TEH		00114	580UL	VC3-	0.62	0.53		0	20	P 2
106	134	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH2-	1.05	0.51		0	25	P 2
44	136	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	02H-	1.19	0.66		0	32	P 2
		07/95		C	TEC-TEH	TEC-TEH		00097	580UL	02H-	1.00	0.48		0	25	P 2
104	136	07/95		C	TEC-TEH	TEC-TEH		00103	580UL	VH2-	0.92	0.30		0	<20	P 2
67	137	07/95		C	TEC-TEH	TEC-TEH		00103	580UL	03H-	1.50	0.28		0	<20	P 2

CUMULATIVE REPORT  
 07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 5 OF 5  
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ROW	COL	EXAM DATE	HEAT#	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
22	138	07/95		C	TEC-TEH	TEC-TEH		00086	580UL	02H+	0.15	0.43		0	<20	P 2
80	140	07/95		C	TEC-TEH	TEC-TEH		00102	580UL	VC3-	1.05	0.42		0	20	P 2
		07/95		C	TEC-TEH	TEC-TEH		00102	580UL	VC3+	0.81	0.33		0	<20	P 2
16	142	07/95		C	TEC-TEH	TEC-TEH		00086	580UL	05H+	1.29	0.41		0	<20	P 2
80	142	07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VH3-	0.99	0.30		0	21	P 2
		07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VH3+	0.42	0.38		0	25	P 2
		07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VSM-	0.73	0.33		0	23	P 2
		07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VC3-	0.78	0.24		0	<20	P 2
		07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VC3+	0.57	0.22		0	<20	P 2
57	143	07/95		C	TEC-TEH	TEC-TEH		00096	580UL	05H-	0.86	0.40		0	<20	P 2
106	144	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH2-	0.47	0.68		0	32	P 2
		07/95		C	TEC-TEH	TEC-TEH		00100	580UL	VH3+	1.20	0.45		0	21	P 2
94	146	07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VH3-	0.93	0.24		0	<20	P 2
38	148	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	03H-	0.93	0.47		0	22	P 2
72	148	07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VH3+	0.63	0.23		0	<20	P 2
43	149	07/95		C	TEC-TEH	TEC-TEH		00099	580UL	VSM+	0.95	0.30		0	<20	P 2
89	151	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	VC3+	0.77	0.30		0	<20	P 2
68	156	07/95		C	TEC-TEH	TEC-TEH		00101	580UL	05C+	0.99	0.22		0	<20	P 2
28	158	07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VSM+	0.68	0.28		0	<20	P 2
74	160	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	08C-	0.31	0.46		0	<20	P 2
79	161	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	08H+	2.12	0.34		0	<20	P 2
70	164	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	08H+	1.27	0.48		0	<20	P 2
9	175	07/95		C	TEC-TEH	TEC-TEH		00080	580UL	06C+	0.87	0.37		0	<20	P 2

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 164  
 NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 203

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:

Percent: MAI, MCI, SAI, SCI, SVI, MVI, 0 to 100%

REPORT OPTIONS:

Only examination results matching criteria are included

## Enclosure 4

## LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Reason</u>
101	25	Preventive Maintenance
104	30	Preventive Maintenance
128	56	Preventive Maintenance
97	67	Preventive Maintenance
103	69	Preventive Maintenance
100	70	Preventive Maintenance
102	70	Preventive Maintenance
105	71	Preventive Maintenance
37	73	Preventive Maintenance
99	73	Preventive Maintenance
134	86	Preventive Maintenance
81	91	Preventive Maintenance
134	92	Preventive Maintenance
77	93	Preventive Maintenance
136	94	Preventive Maintenance
46	96	Preventive Maintenance
81	125	Preventive Maintenance
80	126	Preventive Maintenance
82	126	Preventive Maintenance

Enclosure 4

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Reason</u>
76	128	Preventive Maintenance
108	130	Preventive Maintenance
44	136	Preventive Maintenance
106	144	Preventive Maintenance



ENCLOSURE (5)  
CUMULATIVE REPORT

07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 89  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 08/25/95  
TIME: 08:36:34

ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
1	1	07/95		H	TSH-TSH	TSH-TSH		00002	600PP	TSH+ 0.16	1.39		76	36	5	
		07/95		H	TSH-TSH	TSH-TSH		00025	600PP	TSH+ 0.24	1.22		83	36	1	
27	3	07/95		C	TEC-TEH	TEC-TEH		00106	580UL	TSH+ 10.24	0.91		160	<20	1	
42	6	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM- 0.19	0.17		0	<20	P 2	
		07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM+ 0.96	0.76		0	29	P 2	
61	9	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM+ 1.87	1.25		153	<20	1	
50	10	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM- 0.70	1.36		0	39	P 2	
51	11	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	03C- 1.10	0.29		0	<20	P 2	
71	13	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH3- 0.63	0.53		0	<20	P 2	
80	16	07/95		C	TEC-TEH	TEC-TEH		00091	580UL	DBC+ 2.22	0.52		0	<20	P 2	
50	18	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM- 0.72	0.33		0	<20	P 2	
82	18	07/95		C	TEC-TEH	TEC-TEH		00090	580UL	08C+ 0.82	0.62		0	27	P 2	
65	19	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	01C+ 6.30	0.70		113	49	1	
		07/95		C	01C-02C	01C-02C		00128	600PP	01C+ 6.40	0.26		58	SAI	P 2	
75	19	07/95		C	TEC-TEH	TEC-TEH		00091	580UL	VC3+ 0.16	0.53		0	<20	P 2	
73	21	07/95		C	TEC-TEH	TEC-TEH		00090	580UL	08H- 0.69	0.41		0	21	P 2	
119	43	07/95		C	TEC-TEH	TEC-TEH		00087	580UL	TSC+ 5.46	0.35		149	<20	1	
88	46	07/95		C	TEC-TEH	TEC-TEH		00084	580UL	DBC- 1.75	0.21		0	<20	P 2	
66	52	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	02H- 1.21	0.31		0	<20	P 2	
113	53	07/95		C	TEC-TEH	TEC-TEH		00076	580UL	06C+ 25.48	0.38		146	23	1	
77	59	07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VSM- 0.55	1.27		0	32	P 2	
		07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VC3+ 0.92	0.66		0	21	P 2	
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VC3+ 0.79	0.71		0	21	P 2	
124	60	07/95		C	TEC-TEH	TEC-TEH		00093	580UL	03H- 1.05	0.61		0	<20	P 2	
77	61	07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VSM+ 0.90	0.91		0	26	P 2	
78	62	07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VC3- 0.77	0.57		0	<20	P 2	
141	63	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	08H+ 2.01	0.41		0	<20	P 2	
50	64	07/95		C	TEC-TEH	TEC-TEH		00113	580UL	VSM+ 0.81	0.58		0	23	P 2	
129	65	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	VH2- 1.18	0.35		0	<20	P 2	
142	68	07/95		C	TEC-TSC	TEC-TSC		00133	600PP	TSC- 0.28	0.31		0	SVI	4	
130	72	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	VH1+ 0.67	0.33		0	<20	P 2	
77	75	07/95		C	TEC-TEH	TEC-TEH		00083	580UL	VH3- 0.77	0.63		0	21	P 2	
100	78	07/95		C	TEC-TEH	TEC-TEH		00080	580UL	08H- 0.56	0.53		0	24	P 2	
125	79	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	VH1+ 1.14	0.84		0	25	P 2	
129	79	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	VH1+ 0.98	0.60		0	20	P 2	
108	80	07/95		C	TEC-TEH	TEC-TEH		00080	580UL	03H+ 15.39	0.89		142	24	1	
		07/95		C	TEC-TEH	TEC-TEH		00080	580UL	07H+ 23.22	1.08		147	20	1	
108	82	07/95		C	TEC-TEH	TEC-TEH		00080	580UL	03C- 0.78	0.24		0	<20	P 2	
147	83	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH2+ 0.65	0.22		0	<20	P 2	
139	85	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH3+ 0.94	0.20		0	<20	P 2	
147	85	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	08H- 1.93	0.58		0	26	P 2	
		07/95		C	TEC-TEH	TEC-TEH		00131	580UL	08H- 2.00	1.09		0	24	P 2	
56	86	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	08H- 2.00	0.32		0	<20	P 2	
126	86	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH1+ 0.76	0.40		0	<20	P 2	
138	86	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH1- 0.91	0.82		0	25	P 2	

CUMULATIVE REPORT  
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 89  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 2 OF 3  
DATE: 08/25/95  
TIME: 08:36:34

ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROSE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH1- 0.83	0.86		0	24	P	2
		07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH2- 0.91	0.97		0	28	P	2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH2- 0.83	0.95		0	26	P	2
		07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH2+ 0.88	0.71		0	23	P	2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH2+ 0.83	0.76		0	22	P	2
135	87	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH2+ 1.48	0.72		0	29	P	2
54	88	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBC- 1.55	0.41		0	20	P	2
146	90	07/95		C	TEC-TEH	TEC-TEH		00099	580UL	VH3- 0.80	0.39		0	<20	P	2
147	91	07/95		C	TEC-TEH	TEC-TEH		00099	580UL	VH2+ 0.65	0.41		0	<20	P	2
54	94	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	DBC- 1.57	0.42		0	<20	P	2
82	94	07/95		C	TEC-TEH	TEC-TEH		00071	580UL	VH2- 0.03	0.31		0	<20	P	2
132	94	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH2- 1.00	0.65		0	25	P	2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH2- 0.98	0.69		0	21	P	2
128	96	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VC2- 0.76	0.41		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VC2- 0.62	0.29		0	<20	P	2
144	96	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH2- 0.62	0.63		0	25	P	2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH2- 0.88	0.79		0	23	P	2
50	98	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	DBH- 1.73	0.87		0	<20	P	2
139	99	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH2- 0.94	0.41		0	<20	P	2
45	101	07/95		C	TEC-TEH	TEC-TEH		00058	580UL	DBC+ 1.69	0.29		0	<20	P	2
83	101	07/95		C	TEC-TEH	TEC-TEH		00070	580UL	VSM+ 1.21	0.29		0	<20	P	2
127	101	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	07C+ 1.52	1.76		164	<20		1
143	101	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH2- 0.69	0.42		0	<20	P	2
38	102	07/95		C	TEC-TEH	TEC-TEH		00052	580UL	DBC- 2.12	0.23		0	<20	P	2
122	102	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	01H+ 1.14	0.50		0	21	P	2
55	103	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	VC3+ 1.07	0.54		0	<20	P	2
129	103	07/95		C	TEC-TEH	TEC-TEH		00099	580UL	VC2+ 4.96	1.53		148	>1		1
135	103	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH1+ 0.72	0.54		0	24	P	2
143	103	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH1- 0.66	0.30		0	<20	P	2
46	104	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	VSM- 0.82	0.36		0	<20	P	2
37	105	07/95		C	TEC-TEH	TEC-TEH		00053	580UL	VSM- 0.66	0.76		0	22	P	2
129	109	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	10H- 0.50	0.34		0	<20	P	2
121	113	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VH1- 0.86	0.58		0	<20	P	2
141	113	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	DBH+ 1.89	0.40		0	<20	P	2
44	114	07/95		C	TEC-TEH	TEC-TEH		00056	580UL	VSM- 1.22	0.41		0	<20	P	2
102	114	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	05H+ 31.74	0.40		154	<20		1
136	114	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VC1+ 1.52	0.77		0	28	P	2
		07/95		C	TEC-TEH	TEC-TEH		00098	580UL	DBC+ 1.30	0.52		0	22	P	2
140	114	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	DBH- 1.76	2.17		0	44	P	2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	DBH- 1.82	2.17		0	42	P	2
		07/95		C	TEC-TEH	TEC-TEH		00098	580UL	DBH+ 1.85	1.72		0	41	P	2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	DBH+ 1.85	1.67		0	37	P	2
83	115	07/95		C	TEC-TEH	TEC-TEH		00068	580UL	VSM+ 1.32	0.22		0	<20	P	2
117	117	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	06H+ 8.15	0.70		155	<20		1
41	123	07/95		C	TEC-TEH	TEC-TEH		00057	580UL	VSM+ 0.67	0.94		0	<20	P	2

CUMULATIVE REPORT  
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 89  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 3 OF 3  
DATE: 08/25/95  
TIME: 08:36:34

ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	ACT/JAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
50	128	07/95		C	TEC-TEH	TEC-TEH		00055	580UL	03C+	0.92	0.82	0	21	P	2
103	131	07/95		C	TEC-TEH	TEC-TEH		00071	580UL	VH2-	1.09	0.48	0	21	P	2
46	138	07/95		C	TEC-TEH	TEC-TEH		00045	580UL	04C-	0.19	0.45	0	<20	P	2
106	138	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	VH2-	1.01	0.61	0	24	P	2
31	139	07/95		H	TSH-TSH	TSH-TSH		00115	600RC	TSH-	0.20	0.23	0	SCI	P	1
119	139	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	10C+	0.07	0.69	0	27	P	2
106	142	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VH2-	0.80	0.45	0	<20	P	2
43	145	07/95		C	TEC-TEH	TEC-TEH		00043	580UL	VSM+	0.60	0.42	0	<20	P	2
47	145	07/95		C	TEC-TEH	TEC-TEH		00043	580UL	VSM+	0.95	0.34	0	<20	P	2
73	145	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VC3-	0.86	0.37	0	<20	P	2
42	146	07/95		C	TEC-TEH	TEC-TEH		00043	580UL	VSM+	0.69	0.39	0	<20	P	2
46	146	07/95		C	TEC-TEH	TEC-TEH		00043	580UL	VSM+	0.91	0.67	0	<20	P	2
76	146	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	VH3+	0.77	0.91	0	24	P	2
73	147	07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH3+	1.08	0.76	0	27	P	2
		07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VH3+	0.83	0.60	0	24	P	2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VSM-	0.93	0.99	0	27	P	2
		07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VSM-	0.73	0.73	0	28	P	2
75	147	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	VC3+	0.74	0.81	0	22	P	2
77	147	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VSM-	0.61	0.56	0	23	P	2
101	149	07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VH2+	0.89	0.45	0	<20	P	2
79	153	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	VC3+	0.94	1.22	0	35	P	2
81	153	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	VH3+	0.00	0.19	0	<20	P	2
77	155	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VH3+	0.64	0.35	0	<20	P	2
87	157	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	03H-	1.31	0.74	0	<20	P	2
78	160	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VH3-	0.98	0.63	0	<20	P	2

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 93  
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 115

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:

Percent: MAI, MCI, SAI, SCI, SVI, MVI, 0 to 100%

REPORT OPTIONS:

Only examination results matching criteria are included

## Enclosure 6

## LIST OF TUBES PLUGGED

San Onofre Unit 2 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Reason</u>
50	10	Preventive Maintenance
65	19	49% Indication at OIC + 6.3
77	59	Preventive Maintenance
142	68	Preventive Maintenance
141	69	Preventive Maintenance
140	114	44% Indication at DBH + 1.7
31	139	Preventive Maintenance
79	153	Preventive Maintenance

ATTACHMENT 9

LIST OF COMPLETED ISI NDE EXAMINATIONS AND SYSTEM  
PRESSURE TESTS

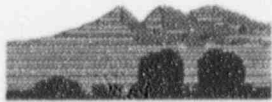


Southern California Edison

UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
<b>ZONE: 01</b>							
03-001-054-01	FLANGE LIGAMENT AREA - STUD HOLE #1	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-054-02	FLANGE LIGAMENT AREA - STUD HOLE #2	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-054-03	FLANGE LIGAMENT AREA - STUD HOLE #3	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-054-04	FLANGE LIGAMENT AREA - STUD HOLE #4	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-054-05	FLANGE LIGAMENT AREA - STUD HOLE #5	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-054-06	FLANGE LIGAMENT AREA - STUD HOLE #6	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-054-07	FLANGE LIGAMENT AREA - STUD HOLE #7	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-054-08	FLANGE LIGAMENT AREA - STUD HOLE #8	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-054-09	FLANGE LIGAMENT AREA - STUD HOLE #9	BG1	B6.40	UT	08/01/95	395-08IUT-017	ACCEPT
03-001-056-01	REACTOR VESSEL CLOSURE STUD #1	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-01	REACTOR VESSEL CLOSURE STUD #1	BG1	B6.30	MT	08/07/95	395-08IMT-003	Accept
03-001-056-02	REACTOR VESSEL CLOSURE STUD #2	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-02	REACTOR VESSEL CLOSURE STUD #2	BG1	B6.30	MT	08/07/95	395-08IMT-003	Accept
03-001-056-03	REACTOR VESSEL CLOSURE STUD #3	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-03	REACTOR VESSEL CLOSURE STUD #3	BG1	B6.30	MT	08/07/95	395-08IMT-003	Accept
03-001-056-04	REACTOR VESSEL CLOSURE STUD #4	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-04	REACTOR VESSEL CLOSURE STUD #4	BG1	B6.30	MT	08/07/95	395-08IMT-003	Accept
03-001-056-05	REACTOR VESSEL CLOSURE STUD #5	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-05	REACTOR VESSEL CLOSURE STUD #5	BG1	B6.30	MT	08/07/95	395-08IMT-003	Accept
03-001-056-06	REACTOR VESSEL CLOSURE STUD #6	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-06	REACTOR VESSEL CLOSURE STUD #6	BG1	B6.30	MT	08/07/95	395-08IMT-003	Accept
03-001-056-07	REACTOR VESSEL CLOSURE STUD #7	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-07	REACTOR VESSEL CLOSURE STUD #7	BG1	B6.30	MT	08/08/95	395-08IMT-004	ACCEPT
03-001-056-08	REACTOR VESSEL CLOSURE STUD #8	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-09	REACTOR VESSEL CLOSURE STUD #9	BG1	B6.30	UT	08/10/95	395-08IUT-022	ACCEPT
03-001-056-10	REACTOR VESSEL CLOSURE STUD #10	BG1	B6.30	MT	08/08/95	395-08IMT-004	ACCEPT
03-001-056-11	REACTOR VESSEL CLOSURE STUD #11	BG1	B6.30	MT	08/08/95	395-08IMT-004	ACCEPT
03-001-056-13	REACTOR VESSEL CLOSURE STUD #13	BG1	B6.30	MT	08/08/95	395-08IMT-004	ACCEPT
03-001-056-14	REACTOR VESSEL CLOSURE STUD #14	BG1	B6.30	MT	08/08/95	395-08IMT-004	ACCEPT
03-001-056-15	REACTOR VESSEL CLOSURE STUD #15	BG1	B6.30	MT	08/08/95	395-08IMT-004	ACCEPT
03-001-056-16	REACTOR VESSEL CLOSURE STUD #16	BG1	B6.30	MT	08/08/95	395-08IMT-004	ACCEPT
03-001-056-18	REACTOR VESSEL CLOSURE STUD #18	BG1	B6.30	MT	08/08/95	395-08IMT-004	ACCEPT
03-001-057-01	REACTOR VESSEL CLOSURE NUT #1	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-02	REACTOR VESSEL CLOSURE NUT #2	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-03	REACTOR VESSEL CLOSURE NUT #3	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-04	REACTOR VESSEL CLOSURE NUT #4	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-05	REACTOR VESSEL CLOSURE NUT #5	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-06	REACTOR VESSEL CLOSURE NUT #6	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-07	REACTOR VESSEL CLOSURE NUT #7	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-08	REACTOR VESSEL CLOSURE NUT #8	BG1	B6.10	MT	08/08/95	395-08IMT-005	ACCEPT
03-001-057-09	REACTOR VESSEL CLOSURE NUT #9	BG1	B6.10	MT	08/08/95	395-08IMT-005	ACCEPT





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**UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS**

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-001-057-10	REACTOR VESSEL CLOSURE NUT #10	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-11	REACTOR VESSEL CLOSURE NUT #11	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-12	REACTOR VESSEL CLOSURE NUT #12	BG1	B6.10	MT	08/08/95	395-08IMT-005	ACCEPT
03-001-057-13	REACTOR VESSEL CLOSURE NUT #13	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-14	REACTOR VESSEL CLOSURE NUT #14	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-15	REACTOR VESSEL CLOSURE NUT #15	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-16	REACTOR VESSEL CLOSURE NUT #16	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-057-17	REACTOR VESSEL CLOSURE NUT #17	BG1	B6.10	MT	08/08/95	395-08IMT-005	ACCEPT
03-001-057-18	REACTOR VESSEL CLOSURE NUT #18	BG1	B6.10	MT	08/09/95	395-08IMT-006	Accept
03-001-058-01	REACTOR VESSEL CLOSURE WASHER #1	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-01	REACTOR VESSEL CLOSURE WASHER #1	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-02	REACTOR VESSEL CLOSURE WASHER #2	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-03	REACTOR VESSEL CLOSURE WASHER #3	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-04	REACTOR VESSEL CLOSURE WASHER #4	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-05	REACTOR VESSEL CLOSURE WASHER #5	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-06	REACTOR VESSEL CLOSURE WASHER #6	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-07	REACTOR VESSEL CLOSURE WASHER #7	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-08	REACTOR VESSEL CLOSURE WASHER #8	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-09	REACTOR VESSEL CLOSURE WASHER #9	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-10	REACTOR VESSEL CLOSURE WASHER #10	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-11	REACTOR VESSEL CLOSURE WASHER #11	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-12	REACTOR VESSEL CLOSURE WASHER #12	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-13	REACTOR VESSEL CLOSURE WASHER #13	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-14	REACTOR VESSEL CLOSURE WASHER #14	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-15	REACTOR VESSEL CLOSURE WASHER #15	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-16	REACTOR VESSEL CLOSURE WASHER #16	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-17	REACTOR VESSEL CLOSURE WASHER #17	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-058-18	REACTOR VESSEL CLOSURE WASHER #18	BG1	B6.50	VT-1	08/09/95	395-08IVT-038	ACCEPT
03-001-080	AREAS ABOVE AND BELOW REACTOR CORE	BN1	B13.10	VT-3	08/08/95	395-08IVT-039	ACCEPT
<b>ZONE: 02</b>							
03-002-001-S	REACTOR CLOSURE HEAD FLNG-TO-TORUS	B-A	B1.40	MT	08/10/95	395-08IMT-007	Accept
03-002-001-V	REACTOR CLOSURE HEAD FLNG-TO-TORUS	B-A	B1.40	UT	08/12/95	395-08IUT-024	ACCEPT
03-002-002	PEEL SEGMENT WELD @ 18 DEGREES	B-A	B1.22	UT	08/11/95	395-08IUT-023	ACCEPT
03-002-003	PEEL SEGMENT WELD @ 90 DEGREES	B-A	B1.22	UT	08/11/95	395-08IUT-023	ACCEPT
03-002-015-01	INSTRUMENT NOZZLE #92-TO-FITTING WELD	B-J	B9.11	UT	08/14/95	395-08IUT-025	ACCEPT
03-002-015-01	INSTRUMENT NOZZLE #92-TO-FITTING WELD	B-J	B9.11	PT	08/14/95	395-08IPT-043	ACCEPT
03-002-015-03	INSTRUMENT NOZZLE #94-TO-FITTING WELD	B-J	B9.11	UT	08/14/95	395-08IUT-025	ACCEPT
03-002-015-03	INSTRUMENT NOZZLE #94-TO-FITTING WELD	B-J	B9.11	PT	08/14/95	395-08IPT-043	ACCEPT
03-002-015-04	INSTRUMENT NOZZLE #95-TO-FITTING WELD	B-J	B9.11	UT	08/14/95	395-08IUT-025	ACCEPT
03-002-015-04	INSTRUMENT NOZZLE #95-TO-FITTING WELD	B-J	B9.11	PT	08/14/95	395-08IPT-043	ACCEPT
03-002-015A-01	INSTRUMENT NOZZLE #92 ICI FLANGE-TO-GRAYLOCK FITTING	B-J	B9.11	UT	08/14/95	395-08IUT-025	ACCEPT





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ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-002-015A-01	INSTRUMENT NOZZLE #92 ICI FLANGE-TO-GRAYLOCK FITTING	B-J	B9.11	PT	08/14/95	395-08IPT-043	ACCEPT
03-002-015A-03	INSTRUMENT NOZZLE #94 ICI FLANGE-TO-GRAYLOCK FITTING	B-J	B9.11	UT	08/14/95	395-08IUT-025	ACCEPT
03-002-015A-03	INSTRUMENT NOZZLE #94 ICI FLANGE-TO-GRAYLOCK FITTING	B-J	B9.11	PT	08/14/95	395-08IPT-043	ACCEPT
03-002-015A-04	INSTRUMENT NOZZLE #95 ICI FLANGE-TO-GRAYLOCK FITTING	B-J	B9.11	UT	08/14/95	395-08IUT-025	ACCEPT
03-002-015A-04	INSTRUMENT NOZZLE #95 ICI FLANGE-TO-GRAYLOCK FITTING	B-J	B9.11	PT	08/14/95	395-08IPT-043	ACCEPT

**ZONE: 04**

03-004-027-01	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-02	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-03	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-04	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-05	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-06	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-07	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-08	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-09	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-10	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-11	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-12	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-13	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-14	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-15	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-16	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-17	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-18	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-19	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-027-20	PRIMARY MANWAY STUD @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-01	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-02	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-03	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-04	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-05	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-06	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-07	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-08	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-09	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-10	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-11	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT



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ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-004-028-12	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-13	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-14	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-15	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-16	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-17	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-18	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-19	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-028-20	PRIMARY MANWAY NUT @ 0 DEGREES	BG2	B7.30	VT-1	08/04/95	395-08IVT-069	ACCEPT
03-004-029-01	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-02	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-03	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-04	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-05	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-06	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-07	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-08	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-09	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-10	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-11	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08ivt-070	ACCEPT
03-004-029-12	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08ivt-070	ACCEPT
03-004-029-13	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-14	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-15	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-16	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-17	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-18	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT



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UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
	MINUTES						
03-004-029-19	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-029-20	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-01	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-02	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-03	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-04	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-05	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-06	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-07	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-08	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-09	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-10	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-11	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-12	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-13	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-14	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-15	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-16	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-17	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-18	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-19	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTE <sup>s</sup>	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT
03-004-030-20	PRIMA ANWAY NUT @ 112 DEGREES, 30	BG2	B7.30	VT-1	08/04/95	395-08IVT-070	ACCEPT



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ISI COMPLETED EXAMINATIONS**

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
MINUTES							
<b>ZONE: 12</b>							
03-012-001	SAFE END-TO-PUMP SUCTION SAFE END WELD	B-J	B9.11	UT	08/17/95	395-08IUT-033	ACCEPT
03-012-001	SAFE END-TO-PUMP SUCTION SAFE END WELD	B-J	B9.11	PT	08/15/95	395-08IPT-042	ACCEPT
03-012-002	ELBOW-TO-SAFE END WELD	B-F	B5.130	UT	08/17/95	395-08IUT-033	ACCEPT
03-012-002	ELBOW-TO-SAFE END WELD	B-F	B5.130	PT	08/15/95	395-08IPT-042	ACCEPT
03-012-003 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-003 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/14/95	395-08IMT-011	Accept
03-012-003 SG	ELBOW BODY WELD - INSIDE RADIUS (SG END)	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-003 SG	ELBOW BODY WELD - INSIDE RADIUS (SG END)	B-J	B9.12	MT	08/14/95	395-08IMT-011	Accept
03-012-004 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-004 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/14/95	395-08IMT-011	Accept
03-012-004 SG	ELBOW BODY WELD - OUTSIDE RADIUS (SG END)	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-004 SG	ELBOW BODY WELD - OUTSIDE RADIUS (SG END)	B-J	B9.12	MT	08/14/95	395-08IMT-011	Accept
03-012-005	PIPE-TO-ELBOW WELD	B-J	B9.11	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-005	PIPE-TO-ELBOW WELD	B-J	B9.11	MT	08/14/95	395-08IMT-011	Accept
03-012-006 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-006 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	MT	08/14/95	395-08IMT-011	Accept
03-012-006 SG	PIPE LONGITUDINAL WELD (SG END)	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-006 SG	PIPE LONGITUDINAL WELD (SG END)	B-J	B9.12	MT	08/14/95	395-08IMT-015	Accept
03-012-007 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-007 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	MT	08/14/95	395-08IMT-010	Accept
03-012-007 SG	PIPE LONGITUDINAL WELD (SG END)	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-007 SG	PIPE LONGITUDINAL WELD (SG END)	B-J	B9.12	MT	08/14/95	395-08IMT-010	Accept
03-012-008	ELBOW-TO-PIPE WELD	B-J	B9.11	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-008	ELBOW-TO-PIPE WELD	B-J	B9.11	MT	08/14/95	395-08IMT-014	Accept
03-012-009 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-009 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/14/95	395-08IMT-010	Accept
03-012-009 SG	ELBOW BODY WELD - INSIDE RADIUS (SG END)	B-J	B9.12	UT	08/15/95	395-08IUT-027	ACCEPT
03-012-009 SG	ELBOW BODY WELD - INSIDE RADIUS (SG END)	B-J	B9.12	MT	08/14/95	395-08IMT-010	Accept
03-012-010 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/16/95	395-08IUT-028	ACCEPT
03-012-010 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/14/95	395-08IMT-010	Accept
03-012-010 SG	ELBOW BODY WELD - OUTSIDE RADIUS (SG END)	B-J	B9.12	UT	08/15/95	395-08IUT-027	ACCEPT
03-012-010 SG	ELBOW BODY WELD - OUTSIDE RADIUS (SG END)	B-J	B9.12	MT	08/14/95	395-08IMT-010	Accept
03-012-011	ELBOW-TO-ELBOW WELD	B-J	B9.11	UT	08/15/95	395-08IUT-027	ACCEPT
03-012-011	ELBOW-TO-ELBOW WELD	B-J	B9.11	MT	08/15/95	395-08IMT-017	Accept
03-012-012 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/15/95	395-08IUT-027	ACCEPT
03-012-012 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/15/95	395-08IMT-017	Accept
03-012-013 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/15/95	395-08IUT-027	ACCEPT
03-012-013 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/15/95	395-08IMT-017	Accept





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ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
<b>ZONE: 13</b>							
03-013-001	PUMP-TO-SAFE END WELD	E-J	B9.11	UT	08/17/95	395-08IUT-034	ACCEPT
03-013-001	PUMP-TO-SAFE END WELD	B-J	B9.11	PT	08/08/95	395-08IPT-036	ACCEPT
03-013-002	SAFE END-TO-PIPE WELD	B-F	B5.130	UT	08/17/95	395-08IUT-034	ACCEPT
03-013-002	SAFE END-TO-PIPE WELD	B-F	B5.130	PT	08/08/95	395-08IPT-036	ACCEPT
03-013-003 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	UT	08/16/95	395-08IUT-029	ACCEPT
03-013-003 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	MT	08/07/95	395-08IMT-001	Accept
03-013-004 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	UT	08/16/95	395-08IUT-029	ACCEPT
03-013-004 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	MT	08/07/95	395-08IMT-001	Accept
03-013-011	SAFETY INJECTION SAFE END-TO-NOZZLE WELD	B-F	B5.130	UT	08/19/95	395-08IUT-047	ACCEPT
03-013-011	SAFETY INJECTION SAFE END-TO-NOZZLE WELD	B-F	B5.130	PT	08/09/95	395-08IPT-037	ACCEPT
<b>ZONE: 14</b>							
03-014-001	SAFE END-TO-PUMP SUCTION NOZZLE WELD	B-J	B9.11	UT	08/17/95	395-08IUT-035	ACCEPT
03-014-001	SAFE END-TO-PUMP SUCTION NOZZLE WELD	B-J	B9.11	PT	08/15/95	395-08IPT-041	ACCEPT
03-014-002	ELBOW-TO-SAFE END WELD	B-F	B5.130	UT	08/17/95	395-08IUT-035	ACCEPT
03-014-002	ELBOW-TO-SAFE END WELD	B-F	B5.130	PT	08/15/95	395-08IPT-041	ACCEPT
03-014-003 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/11/95	395-08IMT-009	Accept
03-014-003 SG	ELBOW BODY WELD - INSIDE RADIUS (S. G. END)	B-J	B9.12	MT	08/11/95	395-08IMT-009	Accept
03-014-004 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/11/95	395-08IMT-009	Accept
03-014-004 SG	ELBOW BODY WELD - OUTSIDE RADIUS (S. G. END)	B-J	B9.12	MT	08/11/95	395-08IMT-009	Accept
03-014-005	PIPE-TO-ELBOW WELD	B-J	B9.11	MT	08/11/95	395-08IMT-009	Accept
03-014-006 P	PIPE LONGITUDINAL WELD (PUMP END)	B-J	B9.12	MT	08/11/95	395-08IMT-009	Accept
03-014-006 SG	PIPE LONGITUDINAL WELD (STEAM GENERATOR END)	B-J	B9.12	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-006 SG	PIPE LONGITUDINAL WELD (STEAM GENERATOR END)	B-J	B9.12	MT	08/14/95	395-08IMT-013	Accept
03-014-007 P	PIPE LONGITUDINAL WELD (PUMP END)	B-J	B9.12	MT	08/11/95	395-08IMT-008	Accept
03-014-007 SG	PIPE LONGITUDINAL WELD (STEAM GENERATOR END)	B-J	B9.12	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-007 SG	PIPE LONGITUDINAL WELD (STEAM GENERATOR END)	B-J	B9.12	MT	08/11/95	395-08IMT-008	Accept
03-014-008	ELBOW-TO-PIPE WELD	B-J	B9.11	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-008	ELBOW-TO-PIPE WELD	B-J	B9.11	MT	08/14/95	395-08IMT-012	Accept
03-014-009 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-009 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/11/95	395-08IMT-008	Accept
03-014-009 SG	ELBOW BODY WELD - INSIDE RADIUS (STEAM GENERATOR END)	B-J	B9.12	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-009 SG	ELBOW BODY WELD - INSIDE RADIUS (STEAM GENERATOR END)	B-J	B9.12	MT	08/11/95	395-08IMT-008	Accept
03-014-010 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-010 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/11/95	395-08IMT-008	Accept
03-014-010 SG	ELBOW BODY WELD - OUTSIDE RADIUS (STEAM GENERATOR END)	B-J	B9.12	UT	08/15/95	395-08IUT-026	ACCEPT



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ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
GENERATOR END)							
03-014-010 SG	ELBOW BODY WELD - OUTSIDE RADIUS (STEAM GENERATOR END)	B-J	B9.12	MT	08/15/95	395-08IMT-016	Accept
03-014-011	ELBOW-TO-ELBOW WELD	B-J	B9.11	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-011	ELBOW-TO-ELBOW WELD	B-J	B9.11	MT	08/15/95	395-08IMT-016	Accept
03-014-012 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-012 P	ELBOW BODY WELD - OUTSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/15/95	395-08IMT-016	Accept
03-014-013 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	UT	08/15/95	395-08IUT-026	ACCEPT
03-014-013 P	ELBOW BODY WELD - INSIDE RADIUS (PUMP END)	B-J	B9.12	MT	08/15/95	395-08IMT-016	Accept
<b>ZONE: 15</b>							
03-015-001	PUMP-TO-SAFE END WELD	B-J	B9.11	UT	08/17/95	395-08IUT-036	ACCEPT
03-015-001	PUMP-TO-SAFE END WELD	B-J	B9.11	PT	08/08/95	395-08IPT-035	ACCEPT
03-015-002	SAFE END-TO-PIPE WELD	B-F	B5.130	UT	08/17/95	395-08IUT-036	ACCEPT
03-015-002	SAFE END-TO-PIPE WELD	B-F	B5.130	PT	08/08/95	395-08IPT-035	ACCEPT
03-015-003 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	UT	08/16/95	395-08IUT-030	ACCEPT
03-015-003 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	MT	08/07/95	395-08IMT-002	Accept
03-015-004 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	UT	08/16/95	395-08IUT-030	ACCEPT
03-015-004 P	PIPE LONGITUDINAL WELD - PUMP END	B-J	B9.12	MT	08/07/95	395-08IMT-002	Accept
03-015-010	SAFETY INJECTION PIPE-TO-NOZZLE WELD	B-F	B5.130	UT	08/19/95	395-08IUT-045	ACCEPT
03-015-010	SAFETY INJECTION PIPE-TO-NOZZLE WELD	B-F	B5.130	PT	08/11/95	395-08IPT-038	ACCEPT
03-015-015	CHARGING NOZZLE-TO-SAFE END WELD	B-F	B5.140	PT	08/14/95	395-08IPT-039	ACCEPT
<b>ZONE: 19</b>							
03-019-120C	SIDE PLATE BOLTING (STUDS & NUTS) (DRAWING NO. SO23-408-1-6-47)	BG2	B7.70	VT1	08/18/95	395-08IVT-067	Accept
03-019-130	8" SCH 140 VALVE-TO-PIPE	B-J	B9.11	UT	08/03/95	395-08IUT-020	ACCEPT
03-019-130	8" SCH 140 VALVE-TO-PIPE	B-J	B9.11	PT	08/02/95	395-08IPT-029	ACCEPT
03-019-150	8" SCH 140 PIPE-TO-ELBOW	B-J	B9.11	UT	08/03/95	395-08IUT-020	ACCEPT
03-019-150	8" SCH 140 PIPE-TO-ELBOW	B-J	B9.11	PT	08/02/95	395-08IPT-029	ACCEPT
03-019-160	8" SCH 140 ELBOW-TO-PIPE	B-J	B9.11	UT	08/16/95	395-08IUT-031	ACCEPT
03-019-160	8" SCH 140 ELBOW-TO-PIPE	B-J	B9.11	PT	08/02/95	395-08IPT-029	ACCEPT
03-019-170	8" SCH 140 PIPE-TO-REDUCING TEE	B-J	B9.11	UT	08/03/95	395-08IUT-020	ACCEPT
03-019-170	8" SCH 140 PIPE-TO-REDUCING TEE	B-J	B9.11	PT	08/02/95	395-08IPT-029	ACCEPT
03-019-180	8" SCH 140 REDUCING TEE-TO-PIPE	B-J	B9.11	UT	08/03/95	395-08IUT-020	ACCEPT
03-019-180	8" SCH 140 REDUCING TEE-TO-PIPE	B-J	B9.11	PT	08/02/95	395-08IPT-029	ACCEPT
03-019-810	12" SCH 160 PIPE-TO-NOZZLE	B-J	B9.11	UT	08/19/95	395-08IUT-046	ACCEPT
03-019-810	12" SCH 160 PIPE-TO-NOZZLE	B-J	B9.11	PT	08/17/95	395-08IPT-044	ACCEPT
<b>ZONE: 20</b>							
03-020-010C	SIDE PLATE BOLTING (DRAWING NO. SO23-408-1-6-46)	BG2	B7.70	VT-1	07/24/95	395-08IVT-072	ACCEPT
03-020-240A	12" CHECK VALVE BODY (DRAWING NO. SO23-408-1-6-46)	BM2	B12.50	VT-3	08/11/95	395-08IVT-074	ACCEPT
03-020-310	12" SCH 160 PIPE-TO-NOZZLE SAFE END	B-J	B9.11	UT	08/19/95	395-08IUT-048	ACCEPT
03-020-310	12" SCH 160 PIPE-TO-NOZZLE SAFE END	B-J	B9.11	PT	08/17/95	395-08IPT-045	ACCEPT





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ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-020-530	8" SCH 140 VALVE-TO-PIPE	B-J	B9.11	U <sub>1</sub>	08/02/95	395-08IUT-019	ACCEPT
03-020-530	8" SCH 140 VALVE-TO-PIPE	B-J	B9.11	PT	08/01/95	395-08IPT-026	ACCEPT
<b>ZONE: 21</b>							
03-021-110	18" SCH 160 PIPE-TO-ELBOW	B-J	B9.11	UT	08/05/95	395-08IUT-021	ACCEPT
03-021-110	18" SCH 160 PIPE-TO-ELBOW	B-J	B9.11	PT	08/04/95	395-08IPT-034	ACCEPT
03-021-120	18" SCH 160 ELBOW-TO-PIPE	B-J	B9.11	UT	08/05/95	395-08IUT-021	ACCEPT
03-021-120	18" SCH 160 ELBOW-TO-PIPE	B-J	B9.11	PT	08/04/95	395-08IPT-034	ACCEPT
03-021-130	18" SCH 160 PIPE-TO-ELBOW	B-J	B9.11	UT	08/05/95	395-08IUT-021	ACCEPT
03-021-130	18" SCH 160 PIPE-TO-ELBOW	B-J	B9.11	PT	08/04/95	395-08IPT-034	ACCEPT
03-021-140	18" SCH 160 ELBOW-TO-PIPE	B-J	B9.11	UT	08/05/95	395-08IUT-021	ACCEPT
03-021-140	18" SCH 160 ELBOW-TO-PIPE	B-J	B9.11	PT	08/04/95	395-08IPT-034	ACCEPT
03-021-150	18" SCH 160 PIPE-TO-ELBOW	B-J	B9.11	UT	08/05/95	395-08IUT-021	ACCEPT
03-021-150	18" SCH 160 PIPE-TO-ELBOW	B-J	B9.11	PT	08/04/95	395-08IPT-034	ACCEPT
03-021-160	18" SCH 160 ELBOW-TO-PIPE	B-J	B9.11	UT	08/05/95	395-08IUT-021	ACCEPT
03-021-160	18" SCH 160 ELBOW-TO-PIPE	B-J	B9.11	PT	08/04/95	395-08IPT-034	ACCEPT
03-021-260A	16" STOP VALVE BODY (DRAWING NO. SO23-507-1-37)	BM2	B12.50	VT-3	08/13/95	395-08IVT-073	ACCEPT
03-021-450A	10" STOP VALVE BODY (DRAWING SO23-507-5-1-130)	BM2	B12.50	VT-3	08/12/95	395-08IVT-075	ACCEPT
03-021-620-F	Y-STOP	F-A	F1.10A	VT-3	08/16/95	395-08IVT-065	ACCEPT
<b>ZONE: 23</b>							
03-023-040	3" SCH 160 PIPE-TO-ELBOW	B-J	B9.21	PT	08/03/95	395-08IPT-030	ACCEPT
03-023-050	3" SCH 160 ELBOW-TO-PIPE	B-J	B9.21	PT	08/03/95	395-08IPT-030	ACCEPT
03-023-060	3" SCH 160 PIPE-TO-ELBOW	B-J	B9.21	PT	08/03/95	395-08IPT-030	ACCEPT
03-023-070	3" SCH 160 ELBOW-TO-PIPE	B-J	B9.21	PT	08/03/95	395-08IPT-030	ACCEPT
03-023-090	3" SCH 160 PIPE-TO-ELBOW	B-J	B9.21	PT	08/03/95	395-08IPT-032	ACCEPT
03-023-110	3" SCH 160 PIPE-TO-REDUCER	B-J	B9.21	PT	08/03/95	395-08IPT-032	ACCEPT
03-023-120	4" SCH 120 REDUCER-TO-PIPE	B-J	B9.11	UT	08/16/95	395-08IUT-032	ACCEPT
03-023-120	4" SCH 120 REDUCER-TO-PIPE	B-J	B9.11	PT	08/03/95	395-08IPT-031	ACCEPT
03-023-121	4" SCH 120 PIPE-TO-ELBOW	B-J	B9.11	UT	08/16/95	395-08IUT-032	ACCEPT
03-023-121	4" SCH 120 PIPE-TO-ELBOW	B-J	B9.11	PT	08/03/95	395-08IPT-031	ACCEPT
03-023-122	4" SCH 120 ELBOW-TO-PIPE	B-J	B9.11	UT	08/16/95	395-08IUT-032	ACCEPT
03-023-122	4" SCH 120 ELBOW-TO-PIPE	B-J	B9.11	PT	08/03/95	395-08IPT-033	ACCEPT
03-023-180	VARIABLE SPRING	F-A	F1.10C	VT-3	08/22/95	395-08IVT-064	ACCEPT
<b>ZONE: 25</b>							
03-025-010	6" SCH 160 PIPE-TO-ELBOW @ 315 DEGREES	B-J	B9.11	UT	08/18/95	395-08IUT-041	ACCEPT
03-025-010	6" SCH 160 PIPE-TO-ELBOW @ 315 DEGREES	B-J	B9.11	PT	08/18/95	395-08IPT-046	ACCEPT
03-025-110	6" SCH 160 PIPE-TO-FLANGE	B-J	B9.11	UT	08/18/95	395-08IUT-041	ACCEPT
03-025-110	6" SCH 160 PIPE-TO-FLANGE	B-J	B9.11	PT	08/18/95	395-08IPT-046	ACCEPT
<b>ZONE: 27</b>							
03-027-010	2" SCH 160 NOZZLE-TO-PIPE	B-J	B9.21	PT	08/14/95	395-08IPT-040	ACCEPT
03-027-020	2" SCH 160 PIPE-TO-VALVE	B-J	B9.21	PT	08/14/95	395-08IPT-040	ACCEPT
03-027-040	2" VALVE-TO-2" SCH 160 PIPE	B-J	B9.21	PT	08/14/95	395-08IPT-040	ACCEPT



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ISI COMPLETED EXAMINATIONS**

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-027-140	GUIDE	F-A	F1.10B	VT-3	08/16/95	395-08IVT-066	ACCEPT
<b>ZONE: 37</b>							
03-037-112	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-113	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-114	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-115	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-116	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-117	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-118	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-119	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-120	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-121	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-122	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-123	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-124	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-125	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-126	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
03-037-127	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/11/95	395-08IVT-068	ACCEPT
<b>ZONE: 38</b>							
03-038-080	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-081	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-082	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-083	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-084	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT



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**UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS**

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
	NO. SO23-922-157)						
03-038-085	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-086	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-087	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-088	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-089	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-090	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-091	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-092	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-093	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-094	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-095	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-096	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-097	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-098	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-099	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-100	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-101	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-102	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-103	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-104	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-105	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-106	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT



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UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
	NO. SO23-922-157)						
03-038-107	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-108	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-109	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-110	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-111	HEAT EXCHANGER-TO-DRIVER MOUNT NUT (DWG. NO. SO23-922-157)	BG2	B7.60	VT-1	08/11/95	395-08IVT-061	ACCEPT
03-038-112	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-113	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-114	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-115	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-116	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-117	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-118	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-119	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-120	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-121	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-122	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-123	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-124	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-125	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-126	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT
03-038-127	SEAL HOUSING-TO-FLANGE CAPSCREW (DWG. NO. SO23-922-231-6)	BG2	B7.60	VT-1	08/10/95	395-08IVT-062	ACCEPT





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**UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS**

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
<b>ZONE: 42</b>							
03-042-043	FEEDWATER EXTENSION-TO-NOZZLE WELD	CF2	C5.51	UT	08/18/95	395-08IUT-037	ACCEPT
03-042-043	FEEDWATER EXTENSION-TO-NOZZLE WELD	CF2	C5.51	MT	08/16/95	395-08IMT-018	Accept
<b>ZONE: 43</b>							
03-043-043	FEEDWATER EXTENSION-TO-NOZZLE WELD	CF2	C5.51	UT	08/18/95	395-08IUT-038	ACCEPT
03-043-043	FEEDWATER EXTENSION-TO-NOZZLE WELD	CF2	C5.51	MT	08/18/95	395-08IMT-020	ACCEPT
<b>ZONE: 44</b>							
03-044-010	18" SCH 80 ELBOW-TO-NOZZLE EXTENSION	CF2	C5.51	UT	08/18/95	395-08IUT-039	ACCEPT
03-044-010	18" SCH 80 ELBOW-TO-NOZZLE EXTENSION	CF2	C5.51	MT	08/16/95	395-08IMT-019	Accept
<b>ZONE: 45</b>							
03-045-360	18" SCH 80 ELBOW-TO-NOZZLE EXTENSION PIECE	CF2	C5.51	UT	08/18/95	395-08IUT-040	ACCEPT
03-045-360	18" SCH 80 ELBOW-TO-NOZZLE EXTENSION PIECE	CF2	C5.51	MT	08/18/95	395-08IMT-021	Accept
03-045-460-F	GUIDE & Y-STOP	F-A	F1.20B	VT-3	08/16/95	395-08IVT-063	ACCEPT
<b>ZONE: 51</b>							
03-051-200A	CP 40" ELBOW BODY WELD - OUTSIDE RADIUS	CF2	C5.52	UT	08/19/95	395-08IUT-044	ACCEPT
03-051-200A	CP 40" ELBOW BODY WELD - OUTSIDE RADIUS	CF2	C5.52	MT	08/19/95	395-08IMT-022	ACCEPT
03-051-200B	CP 40" ELBOW BODY WELD - INSIDE RADIUS	CF2	C5.52	UT	08/19/95	395-08IUT-044	ACCEPT
03-051-200B	CP 40" ELBOW BODY WELD - INSIDE RADIUS	CF2	C5.52	MT	08/19/95	395-08IMT-022	ACCEPT
03-051-210	40" ELBOW-TO-PIPE	CF2	C5.51	UT	08/19/95	395-08IUT-044	ACCEPT
03-051-210	40" ELBOW-TO-PIPE	CF2	C5.51	MT	08/19/95	395-08IMT-022	ACCEPT
03-051-211 SG	40" PIPE LONGITUDINAL WELD	CF2	C5.52	UT	08/19/95	395-08IUT-044	ACCEPT
03-051-211 SG	40" PIPE LONGITUDINAL WELD	CF2	C5.52	MT	08/19/95	395-08IMT-022	ACCEPT
<b>ZONE: 61</b>							
03-061-080	16" CONTROL VALVE BODY WELD (DRAWING NO. SO23-507-5-1-36)	C-G	C6.20	PT	07/14/95	395-08IPT-014	ACCEPT
03-061-2100	GUIDE	F-A	F1.20B	VT-3	07/17/95	395-08IVT-034	ACCEPT
03-061-2130-F	SNUBBER	F-A	F1.20C	VT-3	06/05/95	395-08IVT-009	ACCEPT
03-061-2140-F	Y-STOP	F-A	F1.20A	VT-3	07/14/95	395-08IVT-004	ACCEPT
03-061-2140-I	Y-STOP W/INTEGRALLY WELDED LUGS	C-C	C3.20	PT	04/14/95	395-08IPT-014	ACCEPT
<b>ZONE: 67</b>							
03-067-2070-F	ANCHOR	F-A	F1.20B	VT-3	07/14/95	395-08IVT-005	ACCEPT
03-067-2070-I	ANCHOR STRAP	C-C	C3.20	PT	07/14/95	395-08IPT-017	ACCEPT
03-067-2080-F	Y-STOP	F-A	F1.20A	VT-3	07/14/95	395-08IVT-005	ACCEPT
03-067-2080-I	Y-STOP W/INTEG WELDED ATTACHMENT (SPRING REPL DCP 3-6683 2BP)	C-C	C3.20	PT	07/14/95	395-08IPT-017	ACCEPT
03-067-2100	Y-STOP	F-A	F1.20A	VT-3	07/14/95	395-08IVT-031	ACCEPT
03-067-2120-F	SWAY STRUT	F-A	F1.20A	VT-3	07/18/95	395-08IVT-010	ACCEPT
03-067-2120-I	SWAY STRUT W/INTEG WELDED ATTACH (SNUBBER REPL DCP 3-6683 2BP)	C-C	C3.20	PT	07/18/95	395-08IPT-024	ACCEPT
<b>ZONE: 69</b>							
03-069-010	4" X 4" X 4" TEE-TO-4" SCH 80S PIPE	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT

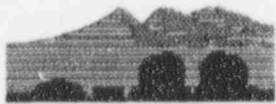


Southern California Edison

UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-069-010	4" X 4" X 4" TEE-TO-4" SCH 80S PIPE	CF1	C5.21	PT	07/08/95	395-08IPT-008	ACCEPT
03-069-030	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-030	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/08/95	395-08IPT-008	ACCEPT
03-069-040	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-040	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/08/95	395-08IPT-008	ACCEPT
03-069-090	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-090	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/08/95	395-08IPT-007	ACCEPT
03-069-100	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-100	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/08/95	395-08IPT-007	ACCEPT
03-069-110	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-110	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/08/95	395-08IPT-007	ACCEPT
03-069-120	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-120	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/08/95	395-08IPT-007	ACCEPT
03-069-130	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-130	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/08/95	395-08IPT-007	ACCEPT
03-069-140	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-140	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/08/95	395-08IPT-007	ACCEPT
03-069-150	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-150	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/08/95	395-08IPT-007	ACCEPT
03-069-1520	3" SCH 160 PIPE TO PENETRATION 71	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-1520	3" SCH 160 PIPE TO PENETRATION 71	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-1530	3" SCH 160 VALVE-TO-PIPE	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-1530	3" SCH 160 VALVE-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-1550	3" SCH 160 ELBOW-TO-VALVE	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-1550	3" SCH 160 ELBOW-TO-VALVE	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-1580	3" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-1580	3" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-1590	3" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-1590	3" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-160	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-160	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/08/95	395-08IPT-007	ACCEPT
03-069-1600	3" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	UT	07/13/95	395-08IUT-009	ACCEPT
03-069-1600	3" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	PT	07/13/95	395-08IPT-013	ACCEPT
03-069-1830	2" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	UT	07/13/95	395-08IUT-010	ACCEPT
03-069-1830	2" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	PT	07/13/95	395-08IPT-012	ACCEPT
03-069-1840	2" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	UT	07/13/95	395-08IUT-010	ACCEPT
03-069-1840	2" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	PT	07/13/95	395-08IPT-012	ACCEPT
03-069-1850	2" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	UT	07/13/95	395-08IUT-010	ACCEPT
03-069-1850	2" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	PT	07/13/95	395-08IPT-012	ACCEPT
03-069-1900	2" SCH 160 PIPE-TO-VALVE	CF1	C5.21	PT	07/13/95	395-08IPT-012	ACCEPT
03-069-2050	3" SCH 160 TEE-TO-PIPE	CF1	C5.21	UT	07/10/95	395-08IUT-002	ACCEPT
03-069-2050	3" SCH 160 TEE-TO-PIPE	CF1	C5.21	PT	07/07/95	395-08IPT-005	ACCEPT





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UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-069-2060	3" X 3" X 3" SCH 160 TEE-TO-REDUCER	CF1	C5.21	UT	07/10/95	395-08IUT-002	ACCEPT
03-069-2060	3" X 3" X 3" SCH 160 TEE-TO-REDUCER	CF1	C5.21	PT	07/07/95	395-08IPT-005	ACCEPT
03-069-2070	3" X 3" X 3" SCH 160 REDUCER-TO-TEE	CF1	C5.21	UT	07/10/95	395-08IUT-002	ACCEPT
03-069-2070	3" X 3" X 3" SCH 160 REDUCER-TO-TEE	CF1	C5.21	PT	07/07/95	395-08IPT-005	ACCEPT
03-069-2080	3" X 2" SCH 160 REDUCER-TO-PIPE	CF1	C5.21	UT	07/10/95	395-08IUT-003	ACCEPT
03-069-2080	3" X 2" SCH 160 REDUCER-TO-PIPE	CF1	C5.21	PT	07/07/95	395-08IPT-006	ACCEPT
03-069-2090	2" VALVE-TO-PIPE	CF1	C5.21	UT	07/10/95	395-08IUT-003	ACCEPT
03-069-2090	2" VALVE-TO-PIPE	CF1	C5.21	PT	07/07/95	395-08IPT-003	ACCEPT
03-069-2110	2" PIPE--TO-VALVE	CF1	C5.21	UT	07/10/95	395-08IUT-003	ACCEPT
03-069-2110	2" PIPE--TO-VALVE	CF1	C5.21	PT	07/07/95	395-08IPT-003	ACCEPT
03-069-2130	2" SCH 80S PIPE-TO ELBOW	CF1	C5.21	UT	07/10/95	395-08IUT-004	ACCEPT
03-069-2130	2" SCH 80S PIPE-TO ELBOW	CF1	C5.21	PT	07/07/95	395-08IPT-004	ACCEPT
03-069-2140	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/10/95	395-08IUT-004	ACCEPT
03-069-2140	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/07/95	395-08IPT-004	ACCEPT
03-069-2350	2" SCH 160 COUNTERBORE-TO-SCH 80 PIPE-TO-ELBOW	CF1	C5.21	UT	07/17/95	395-08IUT-013	ACCEPT
03-069-2350	2" SCH 160 COUNTERBORE-TO-SCH 80 PIPE-TO-ELBOW	CF1	C5.21	PT	07/15/95	395-08IPT-022	ACCEPT
03-069-2360	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/17/95	395-08IUT-013	ACCEPT
03-069-2360	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-022	ACCEPT
03-069-2390	2" VALVE-TO-PIPE	CF1	C5.21	UT	07/17/95	395-08IUT-012	ACCEPT
03-069-2390	2" VALVE-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-023	ACCEPT
03-069-2410	3" X 2" REDUCER-TO-PIPE	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-2410	3" X 2" REDUCER-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-2430	3" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-2430	3" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-2440	3" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-2440	3" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-2450	3" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-2450	3" SCH 160 PIPE-TO-ELBOW	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-2460	3" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-2460	3" SCH 160 ELBOW-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-2470	3" SCH 160 PIPE-TO-FLANGE	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-2470	3" SCH 160 PIPE-TO-FLANGE	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-2500	3" FLANGE-TO-PIPE	CF1	C5.21	UT	07/17/95	395-08IUT-014	ACCEPT
03-069-2500	3" FLANGE-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-019	ACCEPT
03-069-2680	2" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/18/95	395-08IUT-015	ACCEPT
03-069-2680	2" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/15/95	395-08IPT-020	ACCEPT
03-069-2690	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/18/95	395-08IUT-015	ACCEPT
03-069-2690	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-020	ACCEPT
03-069-2700	2" SCH 160 PIPE-TO-VALVE	CF1	C5.21	UT	07/18/95	395-08IUT-016	ACCEPT
03-069-2700	2" SCH 160 PIPE-TO-VALVE	CF1	C5.21	PT	07/15/95	395-08IPT-021	ACCEPT



Southern California Edison

**UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS**

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-069-2720	2" VALVE-TO-PIPE	CF1	C5.21	UT	07/18/95	395-08IUT-016	ACCEPT
03-069-2720	2" VALVE-TO-PIPE	CF1	C5.21	PT	07/15/95	395-08IPT-021	ACCEPT
03-069-2730	2" SCH 160 PIPE-TO-REDUCER	CF1	C5.21	UT	07/18/95	395-08IUT-016	ACCEPT
03-069-2730	2" SCH 160 PIPE-TO-REDUCER	CF1	C5.21	PT	07/15/95	395-08IPT-021	ACCEPT
03-069-3040	GUIDE	F-A	F1.20A	VT-3	07/14/95	395-08IVT-032	ACCEPT
03-069-3050	GUIDE & Y-STOP	F-A	F1.20B	VT-3	07/14/95	395-08IVT-032	ACCEPT
03-069-3220-F	ANCHOR STRAP	F-A	F1.20B	VT-3	07/08/95	395-08IVT-001	ACCEPT
03-069-3220-I	INTEGRALLY WELDED ANCHOR STRAP	C-C	C3.20	PT	07/08/95	395-08IPT-009	ACCEPT
03-069-3230	GUIDE	F-A	F1.20A	VT-3	07/17/95	395-08IVT-037	Accept
03-069-3620	Y-STOP	F-A	F1.20A	VT-3	07/11/95	395-08IVT-002	ACCEPT
03-069-3700	GUIDE & Y-STOP	F-A	F1.20B	VT-3	07/17/95	395-08IVT-037	Accept
03-069-3760	GUIDE	F-A	F1.20A	VT-3	07/17/95	395-08IVT-037	Accept
03-069-3770-F	Y-STOP	F-A	F1.20A	VT-3	07/11/95	395-08I-VT-002	ACCEPT
03-069-3790-F	3-WAY STOP	F-A	F1.20B	VT-3	07/13/95	395-08IVT-003	ACCEPT
03-069-3790-I	3-WAY STOP W/INTEGRALLY WELDED LUGS	C-C	C3.20	PT	07/13/95	395-08IPT-012	ACCEPT
03-069-3820	GUIDE	F-A	F1.20B	VT-3	07/11/95	395-08IVT-002	ACCEPT
03-069-390	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/10/95	395-08IUT-001	ACCEPT
03-069-390	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/07/95	395-08IPT-001	ACCEPT
03-069-3910-F	ANCHOR STRAP	F-A	F1.20B	VT-3	07/15/95	395-08IVT-008	ACCEPT
03-069-3910-I	INTEGRALLY WELDED ANCHOR STRAP	C-C	C3.20	PT	07/15/95	395-08IPT-020	ACCEPT
03-069-3930-F	3-WAY STOP	F-A	F1.20B	VT-3	07/17/95	395-08IVT-037	Accept
03-069-400	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/10/95	395-08IUT-001	ACCEPT
03-069-400	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/07/95	395-08IPT-001	ACCEPT
03-069-410	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/10/95	395-08IUT-001	ACCEPT
03-069-410	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/07/95	395-08IPT-001	ACCEPT
03-069-420	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/10/95	395-08IUT-001	ACCEPT
03-069-420	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/07/95	395-08IPT-001	ACCEPT
03-069-430	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/10/95	395-08IUT-001	ACCEPT
03-069-430	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/07/95	395-08IPT-002	ACCEPT
03-069-450	4" SCH 80S PIPE-TO-TEE	CF1	C5.21	UT	07/10/95	395-08IUT-001	ACCEPT
03-069-450	4" SCH 80S PIPE-TO-TEE	CF1	C5.21	PT	07/07/95	395-08IPT-002	ACCEPT
03-069-460	4" X 4" X 2" SCH 80S REDUCER TEE-TO-4" SCH 80S PIPE	CF1	C5.21	UT	07/10/95	395-08IUT-001	ACCEPT
03-069-460	4" X 4" X 2" SCH 80S REDUCER TEE-TO-4" SCH 80S PIPE	CF1	C5.21	PT	07/07/95	395-08IPT-002	ACCEPT
03-069-600	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-600	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/08/95	395-08IPT-009	ACCEPT
03-069-610	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-610	4" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/08/95	395-08IPT-009	ACCEPT
03-069-620	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/11/95	395-08IUT-006	ACCEPT
03-069-620	4" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/08/95	395-08IPT-009	ACCEPT
03-069-800	2" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/13/95	395-08IUT-008	ACCEPT



Southern California Edison

**UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS**

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-069-800	2" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/10/95	395-08IPT-010	ACCEPT
03-069-810	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/13/95	395-08IUT-008	ACCEPT
03-069-810	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/10/95	395-08IPT-010	ACCEPT
03-069-820	2" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	UT	07/13/95	395-08IUT-008	ACCEPT
03-069-820	2" SCH 80S PIPE-TO-ELBOW	CF1	C5.21	PT	07/10/95	395-08IPT-010	ACCEPT
03-069-830	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	UT	07/13/95	395-08IUT-008	ACCEPT
03-069-830	2" SCH 80S ELBOW-TO-PIPE	CF1	C5.21	PT	07/10/95	395-08IPT-010	ACCEPT
03-069-850	2" SCH 80S PIPE-TO-VALVE	CF1	C5.21	UT	07/13/95	395-08IUT-008	ACCEPT
03-069-850	2" SCH 80S PIPE-TO-VALVE	CF1	C5.21	PT	07/10/95	395-08IPT-010	ACCEPT
<b>ZONE: 73</b>							
03-073-1560	8" SCH 140 PIPE-TO-VALVE (DWG NO. 41886 NOTE 4)	CF1	C5.11	UT	07/12/95	395-08IUT-007	ACCEPT
03-073-1560	8" SCH 140 PIPE-TO-VALVE (DWG NO. 41886 NOTE 4)	CF1	C5.11	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-1580	VALVE-TO-8" SCH 140 PIPE	CF1	C5.11	UT	07/12/95	395-08IUT-007	ACCEPT
03-073-1580	VALVE-TO-8" SCH 140 PIPE	CF1	C5.11	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-1590	8" SCH 140 PIPE-TO-PENETRATION NO. 50	CF1	C5.11	UT	07/12/95	395-08IUT-007	ACCEPT
03-073-1590	8" SCH 140 PIPE-TO-PENETRATION NO. 50	CF1	C5.11	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-1600	PENETRATION NO. 50-TO-8" SCH 140 PIPE	CF1	C5.11	UT	08/02/95	395-08IUT-018	ACCEPT
03-073-1600	PENETRATION NO. 50-TO-8" SCH 140 PIPE	CF1	C5.11	PT	08/02/95	395-08IPT-028	ACCEPT
03-073-1610	8" SCH 140 PIPE-TO-VALVE	CF1	C5.11	UT	08/02/95	395-08IUT-018	ACCEPT
03-073-1610	8" SCH 140 PIPE-TO-VALVE	CF1	C5.11	PT	08/02/95	395-08IPT-028	ACCEPT
03-073-1810	8" SCH 140 PIPE-TO-VALVE	CF1	C5.21	UT	07/17/95	395-08IUT-011	ACCEPT
03-073-1810	8" SCH 140 PIPE-TO-VALVE	CF1	C5.21	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-1830	VALVE-TO-8" SCH 140 PIPE	CF1	C5.11	UT	07/17/95	395-08IUT-011	ACCEPT
03-073-1830	VALVE-TO-8" SCH 140 PIPE	CF1	C5.11	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-1840	8" SCH 140 PIPE-TO-PENETRATION NO. 49	CF1	C5.11	UT	07/17/95	395-08IUT-011	ACCEPT
03-073-1840	8" SCH 140 PIPE-TO-PENETRATION NO. 49	CF1	C5.11	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-1850	PENETRATION NO. 49-TO-8" SCH 140 PIPE	CF1	C5.11	UT	08/02/95	395-08IUT-018	ACCEPT
03-073-1850	PENETRATION NO. 49-TO-8" SCH 140 PIPE	CF1	C5.11	PT	08/02/95	395-08IPT-027	ACCEPT
03-073-1860	8" SCH 140 PIPE-TO-ELBOW	CF1	C5.11	UT	08/02/95	395-08IUT-018	ACCEPT
03-073-1860	8" SCH 140 PIPE-TO-ELBOW	CF1	C5.11	PT	08/02/95	395-08IPT-027	ACCEPT
03-073-1870	8" SCH 140 ELBOW-TO-PIPE	CF1	C5.11	UT	08/02/95	395-08IUT-018	ACCEPT
03-073-1870	8" SCH 140 ELBOW-TO-PIPE	CF1	C5.11	PT	08/02/95	395-08IPT-027	ACCEPT
03-073-1880	8" SCH 140 PIPE-TO-VALVE	CF1	C5.11	UT	08/02/95	395-08IUT-018	ACCEPT
03-073-1880	8" SCH 140 PIPE-TO-VALVE	CF1	C5.11	PT	08/02/95	395-08IPT-027	ACCEPT
03-073-2200	GUIDE	F-A	F1.20A	VT-3	07/17/95	395-08IVT-036	Accept
03-073-2210-F	SWAY STRUT	F-A	F1.20A	VT-3	07/17/95	395-08IVT-036	Accept
03-073-2220-F	GUIDE & Y-STOP	F-A	F1.20B	VT-3	07/14/95	395-08IVT-006	ACCEPT
03-073-2220-I	GUIDE & Y-STOP W/INTEGRALLY WELDED LUGS	C-C	C3.20	PT	07/14/95	395-08IPT-015	ACCEPT
03-073-2240	GUIDE	F-A	F1.20A	VT-3	07/17/95	395-08IVT-036	Accept
03-073-2250-F	Y-STOP	F-A	F1.20A	VT-3	07/14/95	395-08IVT-006	ACCEPT
03-073-2250-I	Y-STOP W/INTEGRALLY WELDED LUGS	C-C	C3.20	PT	04/14/95	395-08IPT-015	ACCEPT
03-073-830	8" SCH 140 PIPE-TO-VALVE	CF1	C5.11	UT	07/12/95	395-08IUT-007	ACCEPT



Southern California Edison

**UNIT 3 CYCLE 8  
ISI COMPLETED EXAMINATIONS**

ISI ID NO.	Area Description	Cat	Item	Method	Exam Date	Report No	Results
03-073-830	8" SCH 140 PIPE-TO-VALVE	CF1	C5.11	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-850	VALVE TO 8" SCH 140 PIPE	CF1	C5.11	UT	07/12/95	395-08IUT-007	ACCEPT
03-073-850	VALVE TO 8" SCH 140 PIPE	CF1	C5.11	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-860	8" SCH 140 PIPE-TO-PENETRATION NO. 51	CF1	C5.11	UT	07/12/95	395-08IUT-007	ACCEPT
03-073-860	8" SCH 140 PIPE-TO-PENETRATION NO. 51	CF1	C5.11	PT	07/12/95	395-08IPT-011	ACCEPT
03-073-870	PENETRATION NO. 51-TO-8" SCH 140 PIPE	CF1	C5.11	UT	08/02/95	395-08IUT-018	ACCEPT
03-073-870	PENETRATION NO. 51-TO-8" SCH 140 PIPE	CF1	C5.11	PT	08/01/95	395-08IPT-025	ACCEPT
03-073-880	8" SCH 140 PIPE-TO-VALVE	CF1	C5.11	UT	08/02/95	395-08IUT-018	ACCEPT
03-073-880	8" SCH 140 PIPE-TO-VALVE	CF1	C5.11	PT	08/01/95	395-08IPT-025	ACCEPT
<b>ZONE: 75</b>							
03-075-580	GUIDE & Y-STOP	F-A	F1.20B	VT-3	07/14/95	395-08IVT-033	ACCEPT
03-075-590	GUIDE	F-A	F1.20A	VT-3	07/14/95	395-08IVT-033	ACCEPT
03-075-610-F	VARIABLE SPRINGS	F-A	F1.20C	VT-3	07/14/95	395-08IVT-033	ACCEPT
03-075-610-I	VARIABLE SPRINGS W/INTEGRALLY WELDED LUGS	C-C	C3.20	PT	07/14/95	395-08IPT-018	ACCEPT
<b>ZONE: 78</b>							
03-078-1010	GUIDE	F-A	F1.20A	VT-3	07/14/95	395-08IVT-035	ACCEPT
03-078-1020	Y-STOP	F-A	F1.20A	VT-3	07/14/95	395-08IVT-035	ACCEPT
03-078-1030	GUIDE	F-A	F1.20A	VT-3	07/14/95	395-08IVT-035	ACCEPT
03-078-940	VARIABLE SPRING	F-A	F1.20C	VT-3	07/14/95	395-08IVT-035	ACCEPT
03-078-950-F	GUIDE & AXIAL STOP	F-A	F1.20B	VT-3	07/14/95	395-08IVT-007	ACCEPT
03-078-950-I	GUIDE & AXIAL STOP W/INTEGRALLY WELDED LUGS	C-C	C3.20	PT	07/14/95	395-08IPT-016	ACCEPT
03-078-970	GUIDE	F-A	F1.20A	VT-3	07/14/95	395-08IVT-035	ACCEPT
03-078-990-F	ANCHOR	F-A	F1.20B	VT-3	07/14/95	395-08IVT-035	ACCEPT



**UNIT-3 CYCLE-8 SYSTEM PRESSURE TESTS**

SYSTEM	PLANT LOCATION	PRESSURE REQT/ACT PSI.	TEMPERATURE REQT/ACT F	EXAM DATE
<b>A ) SYSTEM LEAKAGE TESTS</b>				
REACTOR COOLANT (1201)	RCS PIPING INSIDE CONTAINMENT	2250 ± 25 / 2250	≥350/430	9/21/95
<b>B) SYSTEM FUNCTIONAL TESTS</b>				
LOW PRESSURE SAFETY INJECTION 1204	PUMP NO. 1/ MP015	NOP(1) /160	NOT(2)/AMB(3)	9/12/95
LOW PRESSURE SAFETY INJECTION 1204	PUMP NO. 2/ MP016	NOP/160	NOT/AMB	9/24/95
HIGH PRESSURE SAFETY INJECTION 1204	PUMP NO. 1/ MP017	NOP/975	NOT/AMB	6/20/95
HIGH PRESSURE SAFETY INJECTION 1204	PUMP NO. 2/ MP018	NOP/1000	NOT/AMB	6/8/95
HIGH PRESSURE SAFETY INJECTION 1204	PUMP NO. 3/ MP019	NOP/1505	NOT/AMB	7/11/95
CONTAINMENT SPRAY 1206	PUMP NO. 1/MP012	NOP/275	NOT/AMB	9/20/95
CONTAINMENT SPRAY 1206	PUMP NO. 2/MP013	NOP/248	NOT/AMB	9/15/95
<b>C) SYSTEM INSERVICE TESTS</b>				
CHEMICAL & VOLUME CONTROL 1208	INSIDE CONTAINMENT	NOP/2256-RCS(4)	NOT/≥553-RCS	7/22/95
CHEMICAL & VOLUME CONTROL 1208	OUTSIDE CONTAINMENT	NOP/2251	NOT/545	7/21/95 & 9/22/95
MAIN STEAM 1301	INSIDE CONTAINMENT	NOP/865.7	NOT/501	7/22/95
MAIN STEAM 1301	OUTSIDE CONTAINMENT	NOP/852	NOT/495	7/10/95
MAIN FEEDWATER 1305	INSIDE CONTAINMENT	NOP/865.7	NOT/501	7/22/95
MAIN FEEDWATER 1305	OUTSIDE CONTAINMENT	NOP/998	NOT/418	7/10/95
AUXILIARY FEEDWATER 1305	INSIDE CONTAINMENT	NOP/998.5	NOT/513	7/22/95
AUXILIARY FEEDWATER 1305	OUTSIDE CONTAINMENT	NOP/998.5	NOT/513	7/22/95
(1) Normal Operating Pressure				
(2) Normal Operating Temperature				
(3) Ambient or Room Temperature				
(4) Reactor Coolant System				

ATTACHMENT 10

FORM NIS-2 OWNER'S REPORTS FOR  
REPAIRS OR REPLACEMENTS



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: CEDM Control</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, W'73 Addenda, Code Cases: None</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1979 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 92012135003 95080905000</p> <p>Rspec: GEN-107, 191-95</p> <p>P&amp;ID: 40111ASO3</p> <p>N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Control Element Drive Mechanism	Combustion Engineering	1470-093	N/A	S31104CEDM #50	1978	Repaired	Yes
Ball Seal Housing	Combustion Engineering	Heat 28119	N/A	RSO 1274-87, SA479 316, CR-3008-95	N/A	Replacement	No
Vent Stem	Combustion Engineering	Heat 36101, SN 404	N/A	RSO 1974-92, SA479 316	N/A	Replacement	No
Housing Nut	Combustion Engineering	Heat 36101, SN 413	N/A	RSO 1974-92, SA479 316	N/A	Replacement	No

7. Description of Work:

The CEDM vent housing was replaced in accordance with NCR 92020267 and MO 92012135002 by Combustion Engineering. The housing nut and vent stem were also replaced. Because there was a root alignment mismatch problem between the upper pressure housing and the new ball seal housing, the stop shoulder bearing surface on the ball seal housing required machining. The machining was performed using support MO 95080905 in accordance with the NCR disposition. The required dimensions were verified by VT-3 examination and the upper housing was PT examined prior to installation by CE.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 440 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of the form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks CR-3008-95 reconciles the replacement ball seal housing which was certified to ASME III-1, 1974 Edition, W75 Addenda.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair and replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/8/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/10/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1 and 2, 1974 Edition, S'74 Addenda, Code Case: None</u><br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 93110269001<br/>Rspec: 003-94<br/>P&amp;ID: 40111ASO3 E-7<br/>N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Globe Valve	Kerotest	YW29-18	N/A	S31201MR187	1979	---	Yes
3/8"x3/4" Pipe-to-tube Adapter	Parker Hannifin	Ht Code UAZJ	N/A	RSO 2720-93, SA479 TP316	N/A	Replacement	No
3/8" Seamless Tubing	Consolidated Power Supply	Heat 432578	N/A	RSO 1295-95, SA213 TP316	N/A	Replacement	No
3/8" Tube Union	Swagelok, Crawford Fitting	Heat R14IR0519B	N/A	RSO 1312-95, SA479 TP316	N/A	Replacement	No

7. Description of Work:

The Parker pipe-to-tube adapter fitting at valve S31201MR187 was scheduled for replacement due to the accumulation of dry boric acid crystals. Because plant interferences prevented this work from being done in the field, the entire valve assembly was cut from the system at the socket weld at the nozzle-to-nipple joint (Class 1 joint). In the shop, the pipe-to-tube adapter was welded using weld record WR3-94-008 (Class 2 joint). The tubing and tube union were also replaced. The entire assembly was then reinstalled in accordance with the WR3-94-008.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2250 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/8/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/4/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1980 Edition, S'82 Addenda, Code Case: None</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 93110650000</p> <p>Rspec: 278-93 R3</p> <p>P&amp;ID: 40112ASO3 H-2</p> <p>N-5: S3-1204-34</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
2" Globe Stop Check Valve	Rockwell International	22ACJ	N/A	S31204MU034	1989	Repaired	Yes

7. Description of Work:

The valve in plant location S31204MU034 was disassembled for rework. This required the removal of the body-to-bonnet seal weld. The valve was cleaned and inspected with satisfactory results. The seal weld was reapplied in accordance with weld record WR3-93-629.

8. Tests Conducted: System Functional Pressure Test      Pressure: 1000 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 1/23/95 to 12/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 6, 1995



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1977 Edition, S'77 Addenda, Code Cases: None</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 93111806000</p> <p>Rspec: 296-93</p> <p>P&amp;ID: 40112ASO3 C-2</p> <p>N-5: S3-1204-34</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1/2" Threaded Globe Needle Valve	Anderson, Greenwood & Co.	N70083	N/A	S31204MR434	1992	Replaced	Yes
1/2" Threaded Globe Needle Valve	Anderson, Greenwood & Co.	N70074	N/A	RSO 0573-93, CR-89-003	1993	Replacement	Yes

7. Description of Work:

The vent valve in position S31204MR434 was replaced due to seat leakage. The existing upstream male connector was reused.

8. Tests Conducted: System Functional Pressure Test      Pressure: 1505 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks CR-89-003 reconciles the replacement valve which was certified to ASME III-2, 1983 Edition, S'85 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/23/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 3/7/94 to 10/24/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 24, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 93121777000<br>FCN: F10742M, F10743M<br>Rspec: 004-95         |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 | P&ID: 40111ASO3 F-5<br>N-5: S3-1204-32, S3-1204-2-11                         |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. Identification of System: Reactor Coolant                                                           |                                                                              |

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda (Valve), 1974 Edition, S'74 Addenda (Installation), 1992 Edition, No Addenda (NDE); Code Cases: None  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda, Code Case: N-416-1

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3" Tilting Disc Check Valve	Anchor/Darling	1N-351	N/A	S31204MU152	1979	Replaced	Yes
3" Tilting Disc Check Valve	Anchor/Darling	ET435-1-2	N/A	RSO 2560-93	1993	Replacement	Yes
3" Sch. 160 Pipe	Tioga Pipe	Heat V40401	N/A	RSO 1226-95, SA376 TP316	N/A	Replacement	No

7. Description of Work:

The check valve was replaced with a new model in accordance with FCNs F10742M and F10743M. The valve end preparations were PT examined. The installation welds, performed in accordance with weld record WR3-95-093, received final RT and PT examinations. A VT-1 examination was performed on the hinge pin cover bolting with satisfactory results. Reference: Weld Record WR3-95-093

8. Tests Conducted: System Leakage Pressure Test      Pres: 1550 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks The provisions of Code Case N-416-1 were applied which allow for alternative pressure testing. Accordingly, the requirements of the 1992 Edition with no Addenda of Sections III and XI were implemented for NDE and pressure testing.

(Applicable Manufacturers Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/8/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/28/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Main Steam</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Case: None</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 94010478001</p> <p>Rspec: 089-94</p> <p>P&amp;ID: 40141HSO3 G-5</p> <p>N-5: S3-1301-2</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1/2" NPT x 3/8" Tube Fitting	Crawford Fitting Co.	Ht Code FHT/EVZ	N/A	RSO 1121-93, Part SS-600-1-8, SA182 Gr. 316	N/A	Replacement	No

7. Description of Work:

The male pipe-to-tube adapter between isolation valve S31301MR035 and the bushing adapter at the actuator dome was replaced due to nitrogen leakage at the dome.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2450 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/5/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                         | Unit: 3<br>MO: 94010824000<br>Rspec: EREF-0089<br>P&ID: 40141ASO3 C-2<br>N-5: S3-1301-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                         |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                       | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System Steam Generator Blowdown Processing                                                                                                                                                                |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, No Addenda, Code Case: 1637</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6" Diaphragm Actuated Control Valve	Fisher Controls	6489973	N/A	3HV4053	1979	---	Yes
Primary Plug	Fisher Controls	PB2790-1	N/A	RSO 3575-86, CR-3011-95	1986	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection due to observed leakage. The valve was reassembled after replacing the valve plug.

8. Tests Conducted: System Functional Pressure Test      Pressure: 996 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks CR-3011-95 reconciles the replacement primary plug which was certified to ASME III-2, 1980 Edition, S'82 Addenda.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Meade  
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 12/8/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 2/17/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

W. Thompson

Commissions

1862 California  
National Board, State, Province, and Endorsements

Date

Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                          |                                                                              |
|----|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                | Sheet 1 of 1<br>Unit: 3<br>MO: 94011296<br>94020204                          |
| 2. | Plant: San Onofre Nuclear Generating Station<br>P.O. Box 128, San Clemente, CA 92674-0128                | RS: 009-94<br>011-94<br>P&ID: 40123BSO3 (E-6)<br>N-5: S3-1208-14             |
| 3. | Work Performed by: Southern California Edison Company                                                    |                                                                              |
| 4. | Identification of System: Chemical and Volume Control                                                    | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: 1649 |                                                                              |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda     |                                                                              |

6. Identification of Components Repaired or Replaced and Replacement Components:

01/11/95

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Flow Control Valve	ITT Hammel Dahl Conoflow	74/5797/014 <i>8 12/1/95</i>	N/A	3PV0201A	1977	Repaired	Yes
Valve Plug	ITT Hammel Dahl Conoflow	A-6 Ht. 840855	N/A	RSO 8095-84 SA-479, TP. 316 w/Stellite 6	1984	Replacement	Yes

7. Description of Work:

The valve internals were inspected and the valve plug was replaced using MO 94011296. On MO 94020204, the socket weld joint between the packing leak-off nipple and the valve bonnet, which contained a pinhole leak, was removed. The leak-off nipple was shortened to remove the old weld zone and rewelded in accordance with WR3-94-032.

8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
Pressure: 330 psig Temp: N/A

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair and replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]  
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 6/4, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2/3/94 to 6/9/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

[Signature]

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date June 9, 1994



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                        |                                                                                                                 |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94020698000 94120245000<br>FCN: F9660M<br>Rspec: 122-94<br>P&ID: 40112CSO3 D-3<br>N-5: S3-1204-5 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 |                                                                                                                 |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                    |
| 4. Identification of System: Reactor Coolant                                                           |                                                                                                                 |

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3" Tilting Disc Check Valve	Anchor/Darling	1N-243	N/A	S31204MU018	1977	---	Yes
1/2"-13x 36" All Thread	Nova Machine Products	Heat 16925	N/A	RSO 1377-93, SA453 660B	N/A	Replacement	No
1/2"-13 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 2991-93, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 1 7/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9660M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A                      Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer                      Date: 11/21/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 12/20/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]                      Commissions 1862                      California  
 Inspector's Signature                      National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

- |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> | <p>Unit: 3<br/>MO: 94020700000 94120245000<br/>FCN: F9661M<br/>Rspec: 123-94<br/>P&amp;ID: 40112CSO3 C-3<br/>N-5: S3-1204-4</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3" Tilting Disc Check Valve	Anchor/Darling	1N-201	N/A	S31204MU019	1976	---	Yes
1/2"-13x 36" All Thread	Nova Machine Products	Heat 16925	N/A	RSO 1377-93, SA453 660B	N/A	Replacement	No
1/2"-13 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSOs 2991-93, 1377-93, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 1 7/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9661M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: DM Maiche Supervising ASME Codes Engineer Date: 11/21/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 12/20/94 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

CD Thompson Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                        |                                                                        |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94020701000 94120245000<br>FCN: F9662M<br>Rspec: 124-94 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 | P&ID: 40112CSO3 B-3<br>N-5: S3-1204-3                                  |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A                   |
| 4. Identification of System Reactor Coolant                                                            | Expiration Date: N/A                                                   |

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3" Tilting Disc Check Valve	Anchor/Darling	1N-204	N/A	S31204MU020	1976	---	Yes
1/2"-13x 36" All Thread	Nova Machine Products	Heat 16925	N/A	RSO 2991-93, SA453 660B	N/A	Replacement	No
1/2"-13 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 2991-93, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 1 7/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9662M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the ALA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable to manufacturer's work reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *A. White* Supervising ASME Codes Engineer Date: 11/21/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 12/20/94 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*C. Thompson* Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section V

- |                                                                                                        |                                                                                                              |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94020702000 94120245000<br>FCN: F9663M<br>Rspec : 125-94<br>P&ID: 40112CSO3<br>N-5: S3-1204-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 |                                                                                                              |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                 |
| 4. Identification of System Reactor Coolant                                                            |                                                                                                              |

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3" Tilting Disc Check Valve	Anchor/Darling	1N-202	N/A	S31204MU021	1976	---	Yes
1/2"-13x 36" All Thread	Nova Machine Products	Heat 16925	N/A	RSO 2991-93, SA453 660B	N/A	Replacement	No
1/2"-13 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 2991-93, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 1 7/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9663M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test      Pres: 2250 psia      Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's UREA Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 11/21/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 1/4/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Nov. 21, 1995

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Case: None</u></p> <p style="padding-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p>Unit: 3</p> <p>MO: 94020703000 94120245000</p> <p>FCN: F9672M</p> <p>Rspec: 140-94</p> <p>P&amp;ID: 40112CSO3 F-7</p> <p>N-5: S3-1204-15</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3" Tilting Disc Check Valve	Anchor/Darling	2N-1407	N/A	S31204MU155	1978	---	Yes
1/2"-13x 36" All Thread	Nova Machine Products	Heat 16925	N/A	RSO 3299-93, SA453 660B	N/A	Replacement	No
1/2"-13 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 0335-95, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 1 7/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. Reference: FCN F9672M, Root Cause Report 93-002

8. Tests Conducted: System Functional Pressure Test      Pres: 975 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the A.I.A.

FORM NIS-2 (back)

9. Remarks The replacement bolting was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]  
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 11/21/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 5/8/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862

California

National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                        |                                                                                                             |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94020705000 94120245000<br>FCN: F9665M<br>Rspec: 126-94<br>P&ID: 40112DSO3<br>N-5: S3-1204-5 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 |                                                                                                             |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                |
| 4. Identification of System Reactor Coolant                                                            |                                                                                                             |

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
8" Tilting Disc Check Valve	Anchor/Darling	1N-230	N/A	S31204MU072	1976	---	Yes
5/8"-11 x 36" All Thread	Nova Machine Products	Heat 22678	N/A	RSO 1377-93, SA453 660B	N/A	Replacement	No
5/8"-11 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 1377-93, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 2 5/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9665M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Appropriate Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/21/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/4/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

- |                                                                                                        |                                                                                                             |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94020706000 94120245000<br>FCN: F9666M<br>Rspec: 127-94<br>P&ID: 40112DSO3<br>N-5: S3-1204-4 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 |                                                                                                             |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                |
| 4. Identification of System Reactor Coolant                                                            |                                                                                                             |

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
8" Tilting Disc Check Valve	Anchor/Darling	1N-228	N/A	S31204MU073	1976	---	Yes
5/8"-11 x 36" All Thread	Nova Machine Products	Heat 22678	N/A	RSO 1377-93, SA453 660B	N/A	Replacement	No
5/8"-11 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 1837-94, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 2 5/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9666M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certification of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/21/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 1/4/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section III

- |                                                                                                                                                                                                                                  |                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 94020707000 94120245000<br>FCN: F9667M<br>Rspec: 128-94 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           | P&ID: 40112DSO3<br>N-5: S3-1204-3                                      |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A                   |
| 4. Identification of System: Reactor Coolant                                                                                                                                                                                     | Expiration Date: N/A                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Case: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                        |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
8" Tilting Disc Check Valve	Anchor/Darling	1N-232	N/A	S31204MU074	1976	---	Yes
5/8"-11 x 36" All Thread	Nova Machine Products	Heat 22678	N/A	RSO 1377-93, SA453 660B	N/A	Replacement	No
5/8"-11 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 1837-94, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 2 5/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9667M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test      Pres: 2250 psia      Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/21/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/4/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

- |                                                                                                                   |                                                       |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770            | Unit: 3<br>MO: 94020708000 94120245000<br>FCN: F9668M |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                            | Rspec : 129-94<br>P&ID: 40112DSO3<br>N-5: S3-1204-2   |
| 3. Work Performed by: Southern California Edison Company                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A  |
| 4. Identification of System Reactor Coolant                                                                       | Expiration Date: N/A                                  |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Case: None</u> |                                                       |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>        |                                                       |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
8" Tilting Disc Check Valve	Anchor/Darling	1N-223	N/A	S31204MU075	1976	---	Yes
5/8"-11 x 36" All Thread	Nova Machine Products	Heat 22678	N/A	RSO 1377-93, SA453 660B	N/A	Replacement	No
5/8"-11 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 1837-94, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 2 5/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9668M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test      Pres: 2250 psia      Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicator Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
 Owner or Owner's Designee, Title

Date: 11/21/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 1/4/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

[Signature]

Commissions

1862

California

National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section V

- |                                                                                                        |                                                                        |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94020709000 94120245000<br>FCN: F9677M<br>Rspec: 136-94 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 | P&ID: 40113ASO3<br>N-5: S3-1204-5                                      |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A                   |
| 4. Identification of System Safety Injection and Shutdown Cooling                                      | Expiration Date: N/A                                                   |

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
12" Tilting Disc Check Valve	Anchor/Darling	1N-182	N/A	S31204MU040	1976	---	Yes
3/4"-10 x 36" All Thread	Nova Machine Products	Heat 22678	N/A	RSO 1377-93, SA453 660B	N/A	Replacement	No
3/4"-10 Heavy Hex Nuts (8)	Nova Machine Products	Heat 74853	N/A	RSO 1846-94, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 3 1/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9677M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 11/21/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 1/4/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                    |                                                       |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770             | Unit: 3<br>MO: 94020711000 94120245000<br>FCN: F9678M |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                             | Rspec: 137-94<br>P&ID: 40113ASO3<br>N-5: S3-1204-4    |
| 3. Work Performed by: Southern California Edison Company                                                           | Type Code Symbol Stamp: N/A<br>Authorization No: N/A  |
| 4. Identification of System Boric Acid Mix and Storage                                                             | Expiration Date: N/A                                  |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Case: None</u> |                                                       |

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
12" Tilting Disc Check Valve	Anchor/Darling	1N-195	N/A	S31204MU041	1976	---	Yes
3/4"-10 x 36" All Thread	Vitco Nuclear Products	Ht Code NBM	N/A	RSO 0318-94, SA453 660B	N/A	Replacement	No
3/4"-10 Heavy Hex Nuts (8)	Nova Machine Products	Heat 74853	N/A	RSO 1846-94, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 3 1/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9678M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/21/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/5/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                              |                                                                              |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                       | Unit: 3<br>MO: 94020712000 94120245000<br>FCN: F9679M<br>Rspec: 138-94       |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                       | P&ID: 40113BSO3<br>N-5: S3-1204-3                                            |
| 3. Work Performed by: Southern California Edison Company                                                                     | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. Identification of System: Safety Injection and Shutdown Cooling                                                           |                                                                              |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S<sup>72</sup> Addenda, Code Case: None</u> |                                                                              |

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
10" Tilting Disc Check Valve	Anchor/Darling	1N-188	N/A	S31204MU042	1976	---	Yes
3/4"-10 x 36" All Thread	Vitco Nuclear Products	Ht Code NBM	N/A	RSO 0318-94, SA453 660B	N/A	Replacement	No
3/4"-10 Heavy Hex Nuts (8)	Nova Machine Products	Heat 74853, 37730, 37730	N/A	RSOs 1846-94, 1710-93, 1377-93, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 3 1/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9679M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test      Pres: 2250 psia      Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/21/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 2/8/95 to 11/27/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 27, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                 |                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                          | Unit: 3<br>MO: 94020713000 94120245000<br>FCN: F9680M<br>Rspec: 139-94 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                          | P&ID: 40113BSO3<br>N-5: S3-1204-2                                      |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                        | Type Code Symbol Stamp: N/A<br>Authorization No: N/A                   |
| 4. Identification of System: Safety Injection and Shutdown Cooling                                                                                                                                                              | Expiration Date: N/A                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Case: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                        |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
12" Tilting Disc Check Valve	Anchor/Darling	1N-184	N/A	S31204MU043	1976	---	Yes
3/4"-10 x 36" All Thread	Nova Machine, Vitco Nuc Prod	Heat 22678, Ht Code NBM	N/A	RSO 1377-93, 0318-94, SA453 660B	N/A	Replacement	No
3/4"-10 Heavy Hex Nuts (8)	Nova Machine Products	Heat 37730	N/A	RSO 1710-93, 1377-93, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 3 1/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9680M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/21/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 2/8/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995



FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *A. Meitel* Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 6/25, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3/1/94 to 7/1/94, and state that to the best of my knowledge and belief, the Owner has performed examination: and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*C. Thompson* Commissions 1862 California  
Inspector's Signature (National Board, State, Province, and Endorsements)

Date July 11, 1994

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94030880000  
Rspec: 032-94  
P&ID: 40134DSO3 E-5  
N-5: S3-1212-8

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Nuclear Plant Sampling

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1/2" Globe Valve	Kerotest	ZP56-24	N/A	S31212MU020	1978	---	Yes
Disc	Kerotest	MAK295-18	N/A	RSO 2-P-2322-82, PN 22-9-(1)-Z	1982	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection due to seat leakage and operational difficulties. The valve was reassembled after replacing the valve disc.

8. Tests Conducted: System Functional Pressure Test

Pressure: 24 psig

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks : The replacement disc was certified to ASME III-1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]  
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 4/5/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6/30/94 to 4/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions

1862

California

National Board, State, Province, and Endorsements

Date April 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                 |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                          | Unit: 3<br>MO: 94031576000<br>Rspec: 090-94<br>P&ID: 40156DSO3 H-5<br>N-5: S3-1305-7 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                          |                                                                                      |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                        | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A         |
| 4. Identification of System Feedwater                                                                                                                                                                                           |                                                                                      |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Case: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                      |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1/2" NPT x 3/8" Tube Fitting	Swagelok	Heat R13IL0511B	N/A	RSO 0857-94, SS-600-1-8, SA182 Gr. 316	N/A	Replacement	No

7. Description of Work:

The male pipe-to-tube adapter between isolation valve S31305MR849 and the bushing adapter at the actuator dome was replaced due to nitrogen leakage at the dome.

8. Tests Conducted: System Functional Pressure Test      Pressure: 1650 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/7/95 to 12/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 6, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System Nuclear Plant Sampling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, No Addenda, Code Case: 1637</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 94031694000</p> <p>Rspec: EREF-0209</p> <p>P&amp;ID: 40134ASO3 E-6</p> <p>N-5: S3-1212-13</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1" Diaphragm Actuated Control Valve	Fisher Controls	6289688	3296	3HV0511	1978	---	Yes
Valve Plug	Fisher Controls	SB1179-1	N/A	RSO 1175-95, 20A0585X10	1995	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection due to observed leakage when used as a boundary. The valve was reassembled after replacing the valve plug.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2260 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/5/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/24/95 to 12/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 6, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section V

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                          | Unit: 3<br>MO: 94040562002<br>Rspec: 054-94<br>P&ID: 40134DSO3 F-5<br>N-5: S3-1212-14 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                          |                                                                                       |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                        | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A          |
| 4. Identification of System Nuclear Plant Sampling                                                                                                                                                                              |                                                                                       |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Case: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                       |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1/2" Globe Valve	Kerotest	ZP56-15	N/A	S31212MU027	1978	---	Yes
Disc	Kerotest	MAK295-9	N/A	RSO 2-P-2322-82, 22-9-(1)-Z	1982	Replacement	Yes

7. Description of Work:

The valve leaked and required rework. The valve disc was replaced and returned to service.

8. Tests Conducted: System Functional Pressure Test      Pressure: 310 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/1/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/13/94 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 94052226000</p> <p>Rspec: GEN-112</p> <p>P&amp;ID: 40124B B-7</p> <p>N-5: S3-1208-5</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1 1/2" x 2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59380-00-0009	N/A	3PSV9225	1985	Replaced	Yes
1 1/2" x 2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59380-00-0012	N/A	Tested Spare, Rebuild MO 92041751	1985	Replacement	Yes

7. Description of Work:

The relief valve was replaced with a rebuilt spare due to leakage from the valve body. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2350 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks : None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 6/26/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2/24/94 to 6/27/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 27, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section III

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                                                                               | Unit: 3<br>MO: 94060676000<br>FCN: F10161M                 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                                                                               | Rspec: GEN-106 R1<br>P&ID: 40111ASO3 G-8<br>N-5: S3-1201-3 |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                                                                             | Type Code Symbol Stamp: N/A<br>Authorization No: N/A       |
| 4. Identification of System Reactor Coolant                                                                                                                                                                                                                                          | Expiration Date: N/A                                       |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, W71 Addenda (Pump), 1980 Edition, S'82 Addenda (Seal Cartridge), Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                            |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
36" Reactor Coolant Pump	Byron Jackson	701-N-0561	N/A	S31201MP003	1978	---	Yes
Mechanical Seal Cartridge	Bingham Willamette	1714880-8	1168	SO23-CART-18	1986	Replaced	Yes
Mechanical Seal Cartridge	Bingham Willamette	1659057-12	1220	SO23-CART-26, Rebuild MO 93120402	1986	Replacement	Yes

7. Description of Work:

The RCP seal cartridge was replaced with a spare which had been rebuilt in accordance with MO 93120402, and FCN F10161M. A VT-1 examination was performed on the seal housing assembly capscrews with satisfactory results. The removed seal cartridge was placed into the rebuild program.

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 435 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Appropriate Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/30/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 94061659001<br>Rspec: GEN-139<br>P&ID: 40141DSO3 B-2<br>N-5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                       |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A          |
| 4. Identification of System Main Steam                                                                                                                                                                                           |                                                                                       |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S75 Addenda, Code Cases: 1781</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                       |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
40" Gate Valve	WKM	484769	1374	3HV8205	1978	---	Yes
5/8"-11x36" All Thread	Nova Machine Products	Heat 8099572	N/A	RSO 0943-95, SA193 B7, CR-2001-93	N/A	Replacement	No
5/8"-11 Heavy Hex Nuts (8)	Vitco Nuclear Products	Ht Code 107	N/A	RSO 0819-95, SA194 2H, CR-2001-93	N/A	Replacement	No

7. Description of Work:

The valve was disassembled for inspection. The upper-north flange studs and nuts required replacement. Four studs were cut to 4 1/4" lengths from all-thread material in accordance with GEN-139, with the required markings being transferred to the cut pieces.

8. Tests Conducted: System Inservice Pressure Test      Pressure: 987 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.



FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement studs and nuts, which were certified to ASME III-2 1989 Edition, No Addenda, and III-2, 1974 Edition No Addenda, respectively. There was supporting RSO documentation that supported later Code editions & CR-2001-93.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/11/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/25/95 to 12/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 11, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1974 Edition, No Addenda (Valve), S74 (Bolting), Code Cases: None</u><br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 94061797000<br/>Rspec: EREF-0173<br/>P&amp;ID: 40111BSO3 G-7<br/>N-5: S3-1201-2</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6"x8" Pressurizer Safety Valve	Dresser	BSO3210	N/A	3PSV0200	1978	Replaced	Yes
6"x8" Pressurizer Safety Valve	Dresser	BSO3212	N/A	Rebuild MO 95040633, RSO 1104-95	1978	Replacement	Yes
2"-8x14 1/2" Stud Thread	Nova Machine Products	Heat 89712, K7K	N/A	RSO 1638-93, SA194 B7	N/A	Replacement	No
2"-8 Heavy Hex Nuts (2)	Nova Machine Products	Ht Code K7M	N/A	RSO 1869-93, SA193 Gr. 7	N/A	Replacement	No

7. Description of Work:

The pressurizer safety valve was replaced as a preventative maintenance action. The inlet flange bolting was VT-1 examined. The stud and nut in the #2 position was replaced based on the examination results. The replacement valve was a spare which had been returned to the vendor for refurbishment and testing. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 435 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/25/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1974 Edition, No Addenda (Valve), S74 (Bolting), Code Cases: None</u><br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 94061806000<br/>Rspec: EREF-0173<br/>P&amp;ID: 40111BSO3 G-5<br/>N-5: S3-1201-2</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6"x8" Pressurizer Safety Valve	Dresser	BS-O3211	N/A	3PSV0201	1978	Replaced	Yes
6"x8" Pressurizer Safety Valve	Dresser	BUO6253	N/A	Rebuild MO 95040633, RSO 1104-95	1980	Replacement	Yes
2"-8x14 1/2" Studs (3)	Cardinal Industrial Products	Ht Code B4	N/A	RSO 3073-91, SA193 B7	N/A	Replacement	No
2" Heavy Hex Nuts (6)	Nova Machine Products	Ht Code K7M	N/A	RSO 1869-93	N/A	Replacement	No

7. Description of Work:

The pressurizer safety valve was replaced as a preventative maintenance action. The inlet flange bolting was VT-1 examined. Selected studs and nuts were replaced based on the examination results. The replacement valve was a spare which had been returned to the vendor for refurbishment and testing. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 435 F

NOTE: Supplemental sheets, in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/25/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                  |                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 94062299000<br>Rspec: EREF-0185<br>P&ID: 40141DSO3 G-7<br>N-5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System Main Steam                                                                                                                                                                                           |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-00-0002	N/A	3PSV8401	1976	Replaced	Yes
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-01-0037	N/A	RSO 0822-95	1976	Replacement	Yes
1 3/8" - 8 Inlet Nuts (12)	Nova Machine Products	Ht Code X2C	N/A	RSO 0740-95, SA194 Gr 7, CR-2001-9?	N/A	Replacement	No

7. Description of Work:

The main steam safety valve was replaced as a scheduled preventative maintenance action with a spare valve which had been returned to the vendor for rework and flexi-disc modification. The attached NVR-1 data report documents the replacement of the nozzle, disc insert and bonnet nut by the vendor. A new valve nameplate was created by Crosby which altered the serial number from N58737-00-0037 to N58737-01-0037 to indicate that the flexi-disc modification had been performed. During installation, the inlet nuts were also replaced. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 998 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement inlet nuts which were certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/1/95

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                     |                                                                                         |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770              | Unit: 3<br>MO: 94062304000<br>Rspec: EREF-0188<br>P&ID: 40141DSO3 G-5<br>N-5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                              |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                            | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System Main Steam                                                                              |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None</u> |                                                                                         |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>          |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-00-0011	N/A	3PSV8404	1976	Replaced	Yes
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-01-0004	N/A	RSO 0824-95	1976	Replacement	Yes
1 3/8" - 8 Inlet Nuts (12)	Nova Machine Products	Ht Code X2C	N/A	RSO 0740-95, SA194 Gr. 7, CR-2001-93	N/A	Replacement	No

7. Description of Work:

The main steam safety valve was replaced as a scheduled preventative maintenance action with a spare valve which had been returned to the vendor for rework and flexi-disc modification. The attached NVR-1 data report documents the replacement of the nozzle and disc insert by the vendor. A new valve nameplate was created by Crosby which altered the serial number from N58737-00-0004 to N58737-01-0004 to indicate that the flexi-disc modification had been performed. During installation, the inlet nuts were also replaced. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 998 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement inlet nuts which were certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Main Steam</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 94062306000</p> <p>Rspec: EREF-0189</p> <p>P&amp;ID: 40141DSO3 G-5</p> <p>N-5: S3-1301-1</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-00-0023	N/A	3PSV8405	1978	Replaced	Yes
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-01-0007	N/A	RSO 0826-95	1976	Replacement	Yes
1 3/8" - 8 Inlet Nuts (12)	Nova Machine Products	Ht Code X2C	N/A	RSO 0740-95, SA194 Gr. 7, CR-2001-93	N/A	Replacement	No

7. Description of Work:

The main steam safety valve was replaced as a scheduled preventative maintenance action with a spare valve which had been returned to the vendor for rework and flexi-disc modification. The attached NVR-1 data report documents the replacement of the nozzle and disc insert by the vendor. A new valve nameplate was created by Crosby which altered the serial number from N58737-00-0007 to N58737-01-0007 to indicate that the flexi-disc modification had been performed. During installation, the inlet nuts were also replaced. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 998 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement inlet nuts which were certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/1/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                     |                                                                                         |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770              | Unit: 3<br>MO: 94062307000<br>Rspec: EREF-0187<br>P&ID: 40141CSO3 G-6<br>N-5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                              |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                            | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System: Main Steam                                                                             |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None</u> |                                                                                         |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>          |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-00-0003	N/A	3PSV8412	1976	Replaced	Yes
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-01-0020	N/A	RSO 0823-95	1977	Replacement	Yes
1 3/8" - 8 Inlet Nuts (12)	Nova Machine Products	Ht Code X3C	N/A	RSO 0740-95, SA194 Gr. 7, CR-2001-93	N/A	Replacement	No

7. Description of Work:

The main steam safety valve was replaced as a scheduled preventative maintenance action with a spare valve which had been returned to the vendor for rework and flexi-disc modification. The attached NVR-1 data report documents the replacement of the nozzle and disc insert by the vendor. A new valve nameplate was created by Crosby which altered the serial number from N58737-00-0020 to N58737-01-0020 to indicate that the flexi-disc modification had been performed. During installation, the inlet nuts were also replaced. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 996 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement inlet nuts which were certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/1/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 4, 1995



FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement inlet nuts which were certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Meichl Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/1/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C. Johnson  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                            | Unit: 3<br>MO: 94062312000<br>Rspec: EREF-0193<br>P&ID: 40141CSO3 G-3<br>N-5: S3-1301-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                            |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System Main Steam                                                                                                                                                                                            |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-00-0036	N/A	3PSV8418	1977	Replaced	Yes
6"x10" Safety Relief Valve	Crosby Valve & Gage	N58737-01-0038	N/A	RSO 0827-95	1976	Replacement	Yes
1 3/8" - 8 Inlet Nuts (12)	Nova Machine Products	Ht Code X3C	N/A	RSO 0740-95, SA194 Gr. 7, CR-2001-93	N/A	Replacement	No

7. Description of Work:

The main steam safety valve was replaced as a scheduled preventative maintenance action with a spare valve which had been returned to the vendor for rework and flexi-disc modification. The attached NVR-1 data report documents the replacement of the nozzle, disc insert, two bonnet nuts, and one bonnet stud by the vendor. A new valve nameplate was created by Crosby which altered the serial number from N58737-00-0038 to N58737-01-0038 to indicate that the flexi-disc modification had been performed. During installation, the inlet nuts were also replaced. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 996 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AJA.

FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement inlet nuts which were certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturers Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/95 to 12/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 6, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                        |                                                                              |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94062457002<br>FCN: F10219M<br>Rspec: 060-94 R2               |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 | P&ID: 40141GSO3 H-4<br>N-5: S3-1301-2                                        |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. Identification of System: Main Steam                                                                |                                                                              |

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S75 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/8" Instrument Valve	Imperial Clevite Inc.	40948	N/A	Isolation valve for 3PI8204M	1984	Replaced	Yes
3/8" Instrument Valve	Anderson Greenwood	N89275	N/A	RSO 1307-93, CR-89-003	1993	Replacement	Yes

7. Description of Work:

The pressure indicator isolation valve was leaking by and was replaced. The replacement valve was changed from an Imperial Clevite valve to an Anderson Greenwood valve in accordance with FCN F10219M. The existing tubing was reused.

8. Tests Conducted: System Functional Pressure Test Pres: 2440 psig Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.



FORM NIS-2 (back)

9. Remarks : CR-89-003 reconciles the replacement valve which was certified to ASME III-2, 1983 Edition, S'85 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 7/12/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7/12/95 to 7/13/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date July 13, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section III

- |                                                                                                        |                                                                                                      |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94062812000<br>FCN: F10162M<br>Rspec: GEN-106 R1<br>P&ID: 40111ASO3<br>N-5: S3-1201-3 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 |                                                                                                      |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                         |
| 4. Identification of System Reactor Coolant                                                            |                                                                                                      |

5. (a) Applicable Construction Code: ASME Section III, Class I, 1971 Edition, W71 Addenda (Pump), 1980 Edition, S'82 Addenda (Seal Cartridge), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
36" Reactor Coolant Pump	Byron Jackson	701-N-0562	N/A	S31201MP004	1979	---	Yes
Mechanical Seal Cartridge	Bingham Willamette	1659057-6	1174	SO23-CART-24	1986	Replaced	Yes
Mechanical Seal Cartridge	Bingham Willamette	1659057-11	1219	SO23-CART-25, Rebuild MO 93062340	1986	Replacement	Yes

7. Description of Work:

The RCP seal cartridge was replaced with a spare which had been rebuilt in accordance with MO 93062340, and FCN F10162M. A VT-1 examination was performed on the housing assembly capscrews and the heat exchanger bolting with satisfactory results. The removed seal cartridge was placed into the rebuild program.

8. Tests Conducted: System Leakage Pressure Test      Pres: 2250 psia      Temp: 435 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/31/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                   |                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                            | Unit: 3<br>MO: 94070768000<br>Rspec: EREF-0018<br>P&ID: 40112BSO3 D-3<br>N-5: S3-1204-12 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                            |                                                                                          |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A             |
| 4. Identification of System Safety Injection and Shutdown Cooling                                                                                                                                                                 |                                                                                          |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                          |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1" Y-Type Globe Valve	Kerotest	TNE6-10	N/A	S31204MR099	1976	---	Yes
Disc	BW/IP Intl.	305765, 15	N/A	RSO 3450-93	1993	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection due to the accumulation of boric acid crystals over the valve. The valve disc could not be reused and was replaced.

8. Tests Conducted: System Functional Pressure Test      Pressure: 515 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the A.I.A.

FORM NIS-2 (back)

9. Remarks The replacement disc was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NA-2134.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/18/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                        |                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94070913000, 95010331000<br>FCN: F9604M, F11043M<br>Rspec: 107-95, 111-95<br>P&ID: 40111ASO3<br>N-5: S3-1201-3-12 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 |                                                                                                                                  |
| 3. Work Performed by: Southern California Edison Company<br>Bechtel Construction Company               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                                     |

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code: ASME Section III, Class 1 (ML058), Class 1-NF (Supports), Class 2 (ML096), 1974 Edition, S74 Addenda, Class 1, 1986 Edition, No Addenda (Valve), Code Cases: None  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes?
3/4" Sch 160S Pipe	Consolidated Power Supply	Ht Code SW769	N/A	RSO 0153-95, SA376 TP316	N/A	Replacement	No
1" Sch 160 Pipe	Al Tech Steel	Ht Code AH4481	N/A	RSO 0941-95, SA376 TP316	N/A	Replacement	No
3/4" Sch 160S RFWN Flange	Consolidated Power Supply	Ht Code 958WNE	N/A	RSO 0809-95, SA182 F316, CR-3007-95	N/A	Replacement	No
1"x 3/4" Sch 160S Concentric Reducer	Consolidated Power Supply	Ht Code 928WNA	N/A	RSO 0875-95, SA403 WP316	N/A	Replacement	No
45 Deg 1" Elbow	Consolidated Power Supply	Ht Code LJNP-1	N/A	RSO 0912-95, SA403 WP316	N/A	Replacement	No
3/4" Anchor	NPS Products	Heat 754303, Ht Code 22798NH	N/A	RSO 0608-95, SA240 Gr 304	N/A	Replacement	No
1" Sch 160 RFWN Flange	WFI	Ht Code 804TNE	N/A	RSO 3285-91, SA182 Tp 316	N/A	Replacement	No
12"x12"x 1/2" Plate	Consolidated Power Supply	Heat 224554W	N/A	RSO 0153-95, SA240 Tp 304	N/A	Replacement	No
12"x12"x 1" Plate	Consolidated Power Supply	Heat 914435	N/A	RSO 0153-95, SA240 Tp 304	N/A	Replacement	No
1" Bolted Bonnet Gate Valve	Anchor/Darling	ET967-1-1	N/A	RSO 1481-94	1994	Replacement	Yes
3/4"-10x 3 1/4" Heavy Hex Bolts (4)	Nova Machine Products	Heat 4-9943FA	N/A	RSO 0476-95, SA193 B7	N/A	Replacement	No

7. Description of Work:

The head vent line LOCA Limiter (3FO-0296) was replaced with an orifice gate valve, allowing flow when needed. The purpose of this modification is to reduce manometer effects thus improving the reactor fill/drain process while functioning as a LOCA Limiter during Modes 1 through 4 (FCN F9338M). The replacement reactor head vent line (S31201ML058) was prefabricated and hydrostatically tested. Installation on the reactor head was performed by Maintenance using MO 94070913.

8. Tests Conducted: System Hydrostatic Pressure Test Pres: 3110 psig Temp: N/A  
System Leakage Pressure Test 2250 psig 430 F

NOTE Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.



FORM NIS-2 (back)

9. Remarks CR-3007-95 reconciles the replacement flange (item 65) which was certified to 1986 Edition, 1986 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/23/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 4/27/95 to 10/24/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 24, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                  |                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 94072206000 95090111000<br>Rspec: GEN-140<br>P&ID: 40111BSO3 E-5<br>N-5: S3-1201-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                                   |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                      |
| 4. Identification of System Reactor Coolant                                                                                                                                                                                      |                                                                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S'71 Addenda, Code Case: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                                   |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Pressurizer	Combustion Engineering	CE 70603	21496	S31201ME087	1977	---	Yes
Manway Stud (1)	Combustion Engineering	Heat 82158, Ht Code J-6391	N/A	RSO 2-P-1131-83, SA540 B24	N/A	Replacement	No

7. Description of Work:

The pressurizer manway studs and nuts were removed and VT-1 examined. All manway studs and nuts were acceptable for reuse with the exception of stud number 11, which was replaced. A VT-1 examination was performed on the replacement stud with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 435 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]

Supervising ASME Codes Engineer

Date: 12/1/95

Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/4/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions

1862

California

National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Case: None</u><br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 94072367000<br/>Rspec: EREF-0207<br/>P&amp;ID: 40112DSO3<br/>N-5: S3-1201-4</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
6"x8" Nozzle Type Relief Valve	Crosby Valve & Gage	N60061-00-0001	N/A	3PSV9349	1978	Replaced	Yes
6"x8" Nozzle Type Relief Valve	Crosby Valve & Gage	N60061-00-0002	N/A	Rebuild MO 93112096	1978	Replacement	Yes

7. Description of Work:

The relief valve in plant position 3PSV9349 was replaced which a tested spare as a preventative maintenance action (Reference MO 93112096). The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 313 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/7/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

- |                                                                                                        |                                                                     |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94080918000 94120245000<br>FCN: F9670M               |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 | Rspec : 110-94, EREF-0055<br>P&ID: 40112ASO3 C-1<br>N-5: S3-1204-34 |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A                |
| 4. Identification of System Safety Injection and Shutdown Cooling                                      | Expiration Date: N/A                                                |

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
4" Tilting Disc Check Valve	Anchor/Darling	2N888	N/A	S31204MU017	1977	---	Yes
1/2"-13-36" All Thread	Nova Machine Products	Heat 16925	N/A	RSO 3299-93, SA453 660B	N/A	Replacement	No
1/2"-13 Heavy Hex Nuts (8)	Nova Machine Products	Heat 24848	N/A	RSO 0335-95, SA453 660B	N/A	Replacement	No

7. Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material with greater resistance to stress corrosion cracking. Using MO 94120245 and GEN-139, eight studs were cut to 1 7/8" lengths from all-thread material, with the required markings being transferred to the cut pieces. A VT-1 examination was performed on the replacement bolting. Reference: FCN F9670M, Root Cause Report 93-002

8. Tests Conducted: System Leakage Pressure Test Pres: 2250 psia Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks The replacement bolting was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/21/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 5/12/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94081779000<br>FCN: F10812M<br>Rspec: EREF-0376 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 | P&ID: 40123BSO3 E-6<br>N-5: S3-1208-11, S3-1208-14             |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A           |
| 4. Identification of System: Chemical and Volume Control                                               | Expiration Date: N/A                                           |

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Case: 1649
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1" Flow Control Valve	ITT Hammel-Dahl	74/5798/014	N/A	3PV0201A	1977	---	Yes
Valve Plug	Hammel-Dahl Inc.	A-7	N/A	RSO 8095-84, Heat 840855, SA479 Gr. 316 Stellite	1984	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection and packing modification in accordance with FCN F10812M. The valve plug could not be reused and was replaced.

8. Tests Conducted: System Functional Pressure Test      Pres: 319 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/25/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                   |                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                            | Unit: 3<br>MO: 94082198000<br>Rspec: EREF-0022<br>P&ID: 40112DSO3 D-7<br>N-5: S3-1201-4 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                            |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System: Safety Injection and Shutdown Cooling                                                                                                                                                                |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Y-Type Globe Valve	Kerotest	OW30-9	N/A	S31201MU036	1976	---	Yes
Disc	BW/IP Intl.	6	N/A	RSO 3450-93, Part 72609993	1993	Replacement	Yes

7. Description of Work:

The valve was disassembled for cleaning and inspection due to valve leakage. The valve disc could not be reused and was replaced.

8. Tests Conducted: System Functional Pressure Test      Pressure: 515 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement disc was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturers Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/1/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 12/1/94 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

[Signature]

Commissions

1862

California

National Board, State, Province, and Endorsements

Date

Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Case: 1637</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 94091613000</p> <p>Rspec: EREF-0011</p> <p>P&amp;ID: 40114DSO3 C-7</p> <p>N-5: S3-1204-34</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1" Y-Type Globe Valve	Kerotest	SSD3-1	N/A	S31204MU061	1976	---	Yes
Bonnet	Kerotest	JSY13-4	N/A	RSO 1798-93, SA479 316	1993	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection due to observed leakage when used as a boundary. The valve bonnet could not be reused and was replaced.

8. Tests Conducted: System Functional Pressure Test      Pressure: 506 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.



FORM NIS-2 (back)

9. Remarks The replacement bonnet was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Appropriate Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/27/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Cases: None</u><br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 94091981000<br/>Rspec: EREF-0011<br/>P&amp;ID: 40112ASO3 F-2<br/>N.C.: 83-1204-34</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1" Y-Type Globe Valve	Kerotest	YW35-23	N/A	S31204MR103	1979	---	Yes
Disc	Kerotest	CBR2-60	N/A	RSO 2758-92, SA479 316	1992	Replacement	Yes

7. Description of Work:

The valve was disassembled for cleaning and inspection due to valve leakage. The valve disc could not be reused and was replaced.

8. Tests Conducted: System Functional Pressure Test      Pressure: 1000 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement disc was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/5/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Case: None</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 94092095000</p> <p>Rspec: EREF-0021</p> <p>P&amp;ID: 40123BSO3 G-6</p> <p>N-5: S3-1208-11</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Y-Type Globe Valve	Kerotest	CAJ21-20	N/A	S31208MU029	1980	---	Yes
Disc	BW/IP Intl.	305765, SN 11	N/A	RSO 3450-93, 72609993	1993	Replacement	Yes

7. Description of Work:

The valve was disassembled for rework due to seat leakage. The condition of the valve disc was unsatisfactory and required replacement.

8. Tests Conducted: System Functional Pressure Test      Pressure: 311 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement disc was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/10/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

[Signature]

Commissions

1862

California

National Board, State, Province, and Endorsements

Date

Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Case: None</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 94092228000</p> <p>Rspec: GEN-128</p> <p>P&amp;ID: 40112CSO3 H-7</p> <p>N-5: S3-1204-34</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1"x1" Nozzle Type Safety Relief Valve	Crosby Valve & Gage	N59370-00-0004	N/A	3PSV9320	1978	Replaced	Yes
1"x1" Nozzle Type Safety Relief Valve	Crosby Valve & Gage	N59370-00-0006	N/A	RSO 1507-92	1992	Replacement	Yes

7. Description of Work:

The relief valve in plant location 3PSV9320 lifted early while running pump 3P018, as described in NCR 94090038. A new valve was installed and the removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 975 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/8/94 to 12/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 6, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                  |                                                                                  |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770           | Unit: 3<br>MO: 94101013000<br>Rspec: 151-94<br>P&ID: 40127BSO3<br>N-5: S3-1219-3 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                           |                                                                                  |
| 3. Work Performed by: Southern California Edison Company                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A     |
| 4. Identification of System: Chemical and Volume Control                                                         |                                                                                  |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, No Addenda, Code Case: None</u> |                                                                                  |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>       |                                                                                  |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3" Gate Valve	Target Rock	74R-013-1	N/A	3LV0227C	1977	Repaired	Yes

7. Description of Work:

The gate valve in plant location 2LV0227C was disassembled for rework. This required the removal of the body-to-bonnet seal weld. The valve was cleaned and inspected with satisfactory results. The seal weld was reapplied in accordance with weld record WR3-94-431.

8. Tests Conducted: System Functional Pressure Test      Pressure: 95% RWST      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-line)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: A. M. Miller Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C. Thompson Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- |                                                                                                                                                                                                                                  |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 94101633000<br>Rspec: 102-94<br>P&ID: 40160ASO3 F-7<br>N-5: S3-1305-11 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                       |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A          |
| 4. Identification of System: Auxiliary Feedwater System                                                                                                                                                                          |                                                                                       |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                       |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/8" x .065" Tubing	Consolidated Power Supply	Heat 703114	N/A	RSO 1485-94, SA-213 TP316	N/A	Replacement	No

7. Description of Work:

The instrument sensing line, from root valve S31305MR801 and 3PI4734, had been stepped on inadvertently causing the tubing to become mis-shaped. The instrument tubing was replaced.

8. Tests Conducted: System Functional Pressure Test      Pressure: 10.8 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks : None.

(Applicable Manufacturers Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A                      Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer                      Date: 8/1/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 12/1/94 to 7/31/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Howard D. Gaston                      Commissions 1574                      California N&I  
 Inspector's Signature                      National Board, State, Province, and Endorsements

Date 8/1/95

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company<br/>P.O. Box 450<br/>San Clemente, CA 92674-0128</p> <p>4. Identification of System: REACTOR COOLANT (1201)</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3<br/>CWO: 94110723001<br/>94110723000</p> <p>DCP: SG3/C8<br/>Repair Spec: GEN-105 Rev. 1<br/>P&amp;ID: 40141AS03 (F-5)<br/>N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'71 Addenda, Code Cases: None
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1 1/2"-8N-2A Manway Studs (5)	Combustion Engineering	HT #40545 Trace Code #15346	N/A	SA540 Gr. B24 RSO #3522-90	N/A	Replacement	No
1 1/2"-8N-2B Manway Stud Nuts (5)	Combustion Engineering	HT #11472 Trace Code #J-6765-1	N/A	SA193 GR B7 RSO #3440-85	N/A	Replacement	No

7. Description of Work: Replacement studs (5) and nuts (5) were installed on the secondary manway cover on the east side of steam generator S3-1301-ME-088. A VT-1 inspection was performed on the replacement studs/nuts.
8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
 Pressure: 2250 psia Temp: 542 °F (Primary Side)  
 Pressure: 985 psia Temp: N/A (Secondary Side)

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.



FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: W. Miller Supervising ASME Codes Engineer Date: 10/17, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/19/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature: W. Thompson Commissions: 1862 California  
(National Board, State, Province, and Endorsements)

Date: Oct. 18, 19 95

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company<br/>P.O. Box 450<br/>San Clemente, CA 92674-0128</p> <p>4. Identification of System: REACTOR COOLANT (1201)</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 1 1971 Edition, S'71 Addenda, Code Cases: None<br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p>Sheet 1 of 1</p> <p>Unit: 3<br/>CWO: 94110726000<br/>DCP: SG3/C8<br/>Repair Spec: GEN-105 REV. 1<br/>P&amp;ID: 40141AS03 (C-5)<br/>N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1"-8N-2A Handhole Stud (1)	Combustion Engineering	HT #85689 Trace Code #MS-315	N/A	SA193 GR. B7 RSO #2249-91	N/A	Replacement	No
1"-8N-2B Handhole Stud Nut (1)	Combustion Engineering	HT #11472 Trace Code #J6765	N/A	SA193 Gr. B7 RSO #2249-91	N/A	Replacement	No

7. Description of Work: A replacement stud (1) and nut (1) were installed on the handhole plate of steam generator S3-1301-ME-089. A VT-1 inspection was performed on the replacement stud/nut.
8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
 Pressure: 2250 psia Temp: 542°F (Primary Side)  
 Pressure: 985 psia Temp: N/A (Secondary Side)

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the ALA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *W. McNeil* Supervising ASME Codes Engineer Date: 10/17 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/19/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*C. Thompson*  
Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94110845000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40131ASO3  
N-5: S3-1201-10

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacemen. Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	13935	N/A	S3RC073H031	1980	Permanently Deleted	No

7. Description of Work:

The mechanical snubber with attachment hardware was no longer required per the latest pipe stress calculation M-1201-073-AA (PSG-148) and was permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None</u></p> <p style="padding-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 94110848000<br/>DCP: 3-6683.04SP<br/>Rspec: 079-95 R0<br/>P&amp;ID: 40131ASO3<br/>N-5: S3-1201-10</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	37408	N/A	S3RC073H038	1986	Replaced	No
12" Rigid Strut	Lisega	S3-RC-073-H-038	N/A	RSO 1022-95, 3922RR1	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP. A VT-3 examination of the support assembly was performed after installation. The existing attachment hardware was reused. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1201-073-AA (PSG-148)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94110849000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40172ASO3  
N-5: S3-1203-27

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Component Cooling Water

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 3	Pacific Scientific	13346	N/A	S3CC275H008	1980	Permanently Deleted	No

7. Description of Work:

The mechanical snubber with attachment hardware was no longer required per the latest pipe stress calculation M-1203-275-AA (PSG-119) and was permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94110850000  
DCP: 3-6683.04SP  
Rspec: 079-95  
P&ID: 40172ASO3  
N-5: S3-1203-27

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Component Cooling Water

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 3-5	Pacific Scientific	13341	N/A	S3CC275H009	1980	Replaced	No
27 1/8" Rigid Strut	Liseqa	S3-CC-275-H-009	N/A	RSO 1022-95, 3952RR1	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP and FIDCN M-9864. A VT-3 examination of the support assembly was performed after installation. The existing attachment hardware was reused. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1203-275-AA (PSG-119)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AJA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94110851000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40172ASO3  
N-5: S3-1203-32

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Component Cooling Water

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	2517	N/A	S3CC287H009	1977	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubber with attachment hardware was no longer required per the latest pipe stress calculation M-1203-287-AA (PSG-116) and was permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94110852000  
DCP: 3-6683.04SP  
Rspec: 079-95  
P&ID: 40172ASO3  
N-5: S3-1203-32

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Component Cooling Water

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	4202	N/A	S3CC287H011	1978	Replaced	Yes
14 3/8" Rigid Strut	Lisega	S3-CC-287-H-011	N/A	RSO 1022-95, 3932RR1S	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP. A VT-3 examination of the support assembly was performed after installation. The existing attachment hardware was reused. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1203-287-AA (PSG-116)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the A.I.A.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94110871000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40113BSO3  
N-5: S3-1204-10

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	15521	N/A	S3SI077H002	1980	Permanently Deleted	No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	3897	N/A	S3SI077H006	1977	Permanently Deleted	Yes
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	36922	N/A	S3SI077H008	1985	Permanently Deleted	No

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1204-077-2A (PSG-354) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner of Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/5/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- |                                                                                                        |                                                                              |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 94110878000<br>DCP: 3-6683.04SP<br>Rspec: 079-95              |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 | P&ID: 40113BSO3<br>N-5: S3-1204-10                                           |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. Identification of System: Safety Injection and Shutdown Cooling                                     |                                                                              |

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	15365	N/A	S3SI077H012	1980	Replaced	Yes
25 3/8" Rigid Strut	Lisega	S3-SI-077-H-012	N/A	RSO 1022-95, 3022RR1	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP. A VT-3 examination of the support assembly was performed after installation. The existing brackets were reused. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1204-077-2A (PSG-354)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in. (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
 Owner or Owner's Designee, Title

Date: 10/20/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 01/5/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94110881000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40113BSO3  
N-5: S3-1204-10

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Traverse Pipe Stop	-----	-----	N/A	S3SI077H010	N/A	Permanently Deleted	No

7. Description of Work:

The traverse pipe stop was no longer required per the latest pipe stress calculation M-1204-077-2A (PSG-354) and was permanently removed in accordance with DCP 3-6683.04SP.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Appropriate Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/20/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- |                                                                                                                   |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770            | Unit: 3<br>MO: 94111278001<br>Rspec: EREF-0229<br>P&ID: 40122BSO3 C-7<br>N-5: N/A |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                            |                                                                                   |
| 3. Work Performed by: Southern California Edison Company                                                          | Type Code Symbol Stamp: N/A                                                       |
| 4. Identification of System: Safety Injection and Shutdown Cooling                                                | Authorization No: N/A<br>Expiration Date: N/A                                     |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Case: None</u> |                                                                                   |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>        |                                                                                   |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" x 1" Nozzle Type Relief Valve	Crosby Valve & Gage	N60533-00-0022	N/A	3PSV9317	1993	Replaced	Yes
3/4" x 1" Nozzle Type Relief Valve	Crosby Valve & Gage	N60533-00-0023	N/A	RSO 0832-94	1994	Replacement	Yes

7. Description of Work:

The relief valve was replaced due to leakage. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 30 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 6/26/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 12/29/94 to 6/27/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 27, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94111641000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40123ASO3  
N-5: S3-1208-3

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Chemical and Volume Control

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	36776	N/A	S3VC003H022	1985	Permanently Deleted	No

7. Description of Work:

The mechanical snubber with attachment hardware was no longer required per the latest pipe stress calculation M-1208-003-AA (PSG-142) and was permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/6/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
 2244 Walnut Grove Avenue  
 Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
 San Clemente, California 92674-0128
3. Work Performed by: Southern California Edison Company

Unit: 3  
 MO: 94111642000  
 DCP: 3-6683.04SP  
 Rspec: 079-95  
 P&ID: 40123ASO3  
 N-5: S3-1208-3

4. Identification of System: Chemical and Volume Control

Type Code Symbol Stamp: N/A  
 Authorization No: N/A  
 Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	11722	N/A	S3VC003H019E	1980	Replaced	No
29" Rigid Strut	Lisege	S3-VC-003-H-019	N/A	RSO 1022-95, 3932RR1	N/A	Replacement	No
Mechanical Snubber PSA 1-4	Pacific Scientific	11708	N/A	S3VC003H019W	1980	Replaced	No
23" Rigid Strut	Lisege	S3-VC-003-H-019	N/A	RSO 1022-95, 3932RR1	N/A	Replacement	No

7. Description of Work:

The mechanical snubbers were replaced with rigid struts in accordance with DCP 3-6683.04SP. A VT-3 examination of the support assembly was performed after installation. The existing attachment hardware was reused. The removed snubbers were placed into the snubber rebuild program. Reference: Stress Calculation M-1208-003-AA (PSG-142)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/19/95  
Owner or Owner's Designee, Title [Signature] 10/19/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/5/95 to 10/19/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 19, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94111648000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40124BSO3  
N-5: S3-1208-5

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Chemical and Volume Control

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	33889	N/A	S3VC008H022	1984	Permanently Deleted	Yes
Mechanical Snubber PSA 1/4	Pacific Scientific	38643	N/A	S3VC008H023	1991	Permanently Deleted	No

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1208-008-3A (PSG-127) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/6/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1362 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94111651000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40124BSO3  
N-5: S3-1208-5

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Chemical and Volume Control

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	37496	N/A	S3VC058H020	1986	Permanently Deleted	No

7. Description of Work:

The mechanical snubber with attachment hardware was no longer required per the latest pipe stress calculation M-1208-008-3A (PSG-127) and was permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/6/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94111653000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40124BSO3  
N-5: S3-1208-5

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Chemical and Volume Control

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	33870	N/A	S3VC059H007	1984	Permanently Deleted	Yes
Mechanical Snubber PSA 1/4	Pacific Scientific	36694	N/A	S3VC059H008	1984	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1208-008-3A (PSG-127) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/8/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94111658000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40113BSO3  
N-5: S3-1219-3

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Refueling Water Tanks

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2	Pacific Scientific	2630	N/A	S3FS057H005B	1978	Permanently Deleted	Yes
Mechanical Snubber PSA 1/2	Pacific Scientific	2632	N/A	S3FS057H005T	1978	Permanently Deleted	Yes
Mechanical Snubber PSA 1/2	Pacific Scientific	7445	N/A	S3FS057H013	1979	Permanently Deleted	No

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1218-037-3A (PSG-163) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the A.I.A.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/6/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94111659000  
DCP: 3-6683.04SP  
Rspec: 079-95 R1  
P&ID: 40124BSO3  
N-5: S3-1218-2

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Chemical and Volume Control

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2 - 2 1/2	Pacific Scientific	2616	N/A	S3BM037H002	1978	Replaced	Yes
10" Rigid Strut	Lisega	S3-BM-037-H-002	N/A	RSO 1022-95, 3922RR1S	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP. The existing brackets were reused. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1218-031-3A (PSG-242)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/27/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 06/20/95 to 10/31/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 31, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 94111665000  
DCP: 3-6683.04SP  
Rspec: 079-95  
P&ID: 40112BSO3  
N-5: S3-1219-3

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Refueling Water Tanks

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2 - 2 1/2	Pacific Scientific	1302	N/A	S3FS057H011	1977	Replaced	Yes
10" Rigid Strut	Liseaga	S3-FS-057-H-011	N/A	RSO 1022-95, 3922RR1S	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP. The existing rear brackets were reused. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1218-037-3A (PSG-163)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/19/95  
Owner or Owner's Designee, Title [Signature] 10/19/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/20/95 to 10/19/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 19, 1995

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                                                                                                                                       |                                                                                                                                                                                                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                                                                                                                             | Sheet 1 of 3<br>Unit: 3<br>CWO: 94120566000, 94121228000,<br>94091367000, 94120583000,<br>94120586000<br>FCN: F-9554M<br>Repair Spec: 007-95 Rev. 0, 008-95 Rev. 0<br>P&ID: 40114BS03<br>N-5: S3-1206-1 |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                                                                                                                                           |                                                                                                                                                                                                         |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128                                                                                                                        |                                                                                                                                                                                                         |
| 4. | Identification of System: Containment Spray (1206)                                                                                                                                                                    | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                                                                                                            |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None<br>(Pipe/Tube/Fittings)<br>ASME Section III, Class 2, 1983 Edition, S'85 Addenda, Code Cases: None (Valves) |                                                                                                                                                                                                         |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda                                                                                                                   |                                                                                                                                                                                                         |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                                                                                                                                         |                                                                                                                                                                                                         |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
DWG. S3-1206-ML-006 SHIT. 1 REV. 0 FCN F-9555M							
1/2" X .065 Wall SS SMLS Tubing	Sandvik Steel	Ht. #432578	N/A	Item #3 SA213T316 RSO #1389-94	N/A	Replacement	No
3/4" SS BW Connector	Parker-Hannifin	HT Code UAMP	N/A	Item #4 SA479TP316 RSO #1470-91	N/A	Replacement	No
3/4" x 1/2" SS Tube End Reducer	Parker-Hannifin	HT Code CAZN	N/A	Item #5 SA479GR316 RSO #1469-91	N/A	Replacement	No
1/2" SS Tube Union	Parker-Hannifin	HT Code CASJ	N/A	Item #18 SA479GR316 RSO #1243-90	N/A	Replacement	No
1/2" SS 90° Union Elbow	Parker-Hannifin	HT Code UAOA	N/A	Item #19 SA182GR316 RSO #2439-91	N/A	Replacement	No
1/2" SS Tube To Pipe Adapter	Parker-Hannifin	HT Code CEHW	N/A	Item #21 SA479GR316 RSO #1511-91	N/A	Replacement	No
1/2" 2500# SS Globe Valve	Anderson-Greenwood	S/N N84167	N/A	Item #17 S31206MR080 RSO #1182-94	1994	Replacement	Yes

7. Description of Work: SPR 890634 identified a problem with contaminated water running off the top of S3-1206-ME-003 (vents S3 1206-MU-019 and MU-021) and S3-1206-ME-004 (vents S3-1206-MU-022 and MU-023). FCN F-9554M extends the vent lines by adding new lines S3-1206-ML-006, 007, 008 and 009 and new valves S3-1206-MR-080, MR-081, MR-082 and MR-083.
- CWO 94120566 - Field verification of materials and shop pre-fabrication, 3ME003 & 3ME004  
CWO 94120586 - Field installation of tubing, supports, and mounting plate (No system tie-in), 3ME003  
CWO 94091367 - Installation weld of pipe to tube adapter fitting, system tie-in of tubing, and VT-2, ME003  
CWO 94120583 - Field installation of tubing, supports, and mounting plate (no system tie-in), 3ME004  
CWO 94121228 - Installation weld of pipe to tube adapter fitting, system tie-in of tubing, and VT-2, 3ME004
8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
Pressure: 610 psig Temp: N/A

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A      Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer      Date: 12/12 19 95      Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1/23/95 to 12/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]      Commissions 1862 California  
Inspector's Signature      (National Board, State, Province, and Endorsements)

Date Dec. 12, 19 95

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                                                                                                                                   |                                                                                                                                                                                                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Owner: <b>Southern California Edison Company</b><br>2244 Walnut Grove Avenue, Rosemead, CA 91770                                                                                                                  | Sheet 2 of 3<br>Unit: 3<br>CWO: 94120566000, 94121228000,<br>94091367000, 94120583000,<br>94120586000<br>FCN: F-9554M<br>Repair Spec: 007-95 Rev. 0, 008-95 Rev. 0<br>P&ID: 40114BS03<br>N-5: S3-1206-1 |
| 2. | Plant: <b>San Onofre Nuclear Generating Station</b><br>San Clemente, CA 92674-0128                                                                                                                                | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                                                                                                            |
| 3. | Work Performed by: <b>Southern California Edison Company</b>                                                                                                                                                      |                                                                                                                                                                                                         |
| 4. | Identification of System: <b>Containment Spray (1206)</b>                                                                                                                                                         |                                                                                                                                                                                                         |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None (Pipe/Tube/Fittings)<br>ASME Section III, Class 2 1983 Edition, S'85 Addenda, Code Cases: None (Valves) |                                                                                                                                                                                                         |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda                                                                                                               |                                                                                                                                                                                                         |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                                                                                                                                     |                                                                                                                                                                                                         |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
DWG. S3-1206-ML-007 SIIT. 1 REV. 0 FCN F-9556M							
1/4" X .065 Wall SS SMLS Tubing	Sandvik Steel	HT #432578	N/A	Item #3 SA213T316 RSO #1389-94	N/A	Replacement	No
3/4" SS BW Connector	Parker-Hannifin	HT Code UAMP	N/A	Item #4 SA479GR316 RSO #1470-91	N/A	Replacement	No
3/4" X 1/2" SS Tube End Reducer	Parker-Hannifin	HT Code HBUY	N/A	Item #5 SA479GR316 RSO #1436-94	N/A	Replacement	No
1/2" SS Tube Union	Parker-Hannifin	HT Code CASJ	N/A	Item #9 SA479GR316 RSO # 1243-90	N/A	Replacement	No
1/2" SS Tube Union 90° Elbow	Parker-Hannifin	HT Code UAOA	N/A	Item #10 SA182GR316 RSO #2439-91	N/A	Replacement	No
1/2" Tube to 1/2" Pipe SS Adaptor	Parker-Hannifin	HT Code CBHW	N/A	Item #11 SA479GR316 RSO #1511-91	N/A	Replacement	No
1/2" 2500# SS Globe Valve	Anderson-Greenwood	S/N N84168	N/A	Item #17 S31206MR081 RSO #1182-94	1994	Replacement	Yes
DWG. S3-1206-ML-008 SIIT. 1 REV. 0 FCN F-9557M							
1/4" X .065 Wall SS SMLS Tubing	Sandvik Steel	HT #7013114	N/A	Item #3 SA213TP316 RSO #0251-95	N/A	Replacement	No
3/4" SS BW Connector	Parker-Hannifin	HT Code UAMP	N/A	Item #4 SA479GR316 RSO #1470-91	N/A	Replacement	No
3/4" X 1/2" SS Tube End Reducer	Parker-Hannifin	HT Code CAZN	N/A	Item #5 SA479GR316 RSO #1469-91	N/A	Replacement	No

Owner/Designee: Wong Date: 12/14/95

ANII: CAF Date: 12/14/95



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

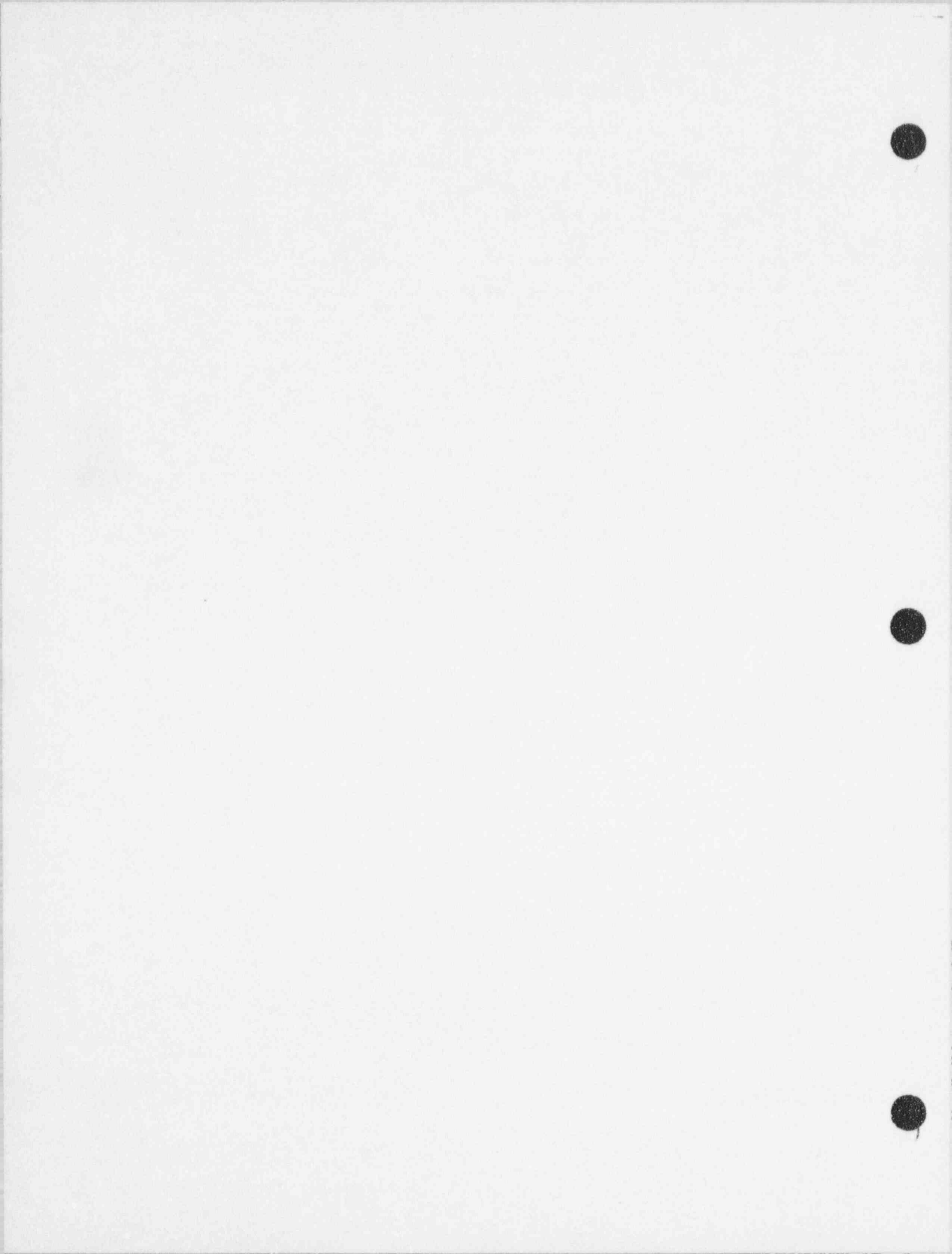
As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                                                                                                                                   |                                                                                                                   |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                                                                                                                         | Sheet 3 of 3<br>Unit: 3<br>CWO: 94120566000, 94121228000,<br>94091367000, 94120583000,<br>94120586000             |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                                                                                                                                       | FCN: F-9554M                                                                                                      |
| 3. | Work Performed by: Southern California Edison Company                                                                                                                                                             | Repair Spec: 007-95 Rev. 0, 008-95 Rev. 0                                                                         |
| 4. | Identification of System: Containment Spray (1206)                                                                                                                                                                | P&ID: 40114BS03<br>N-5: S3-1206-1<br>Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None (Pipe/Tube/Fittings)<br>ASME Section III, Class 2 1983 Edition, S'85 Addenda, Code Cases: None (Valves) |                                                                                                                   |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda                                                                                                               |                                                                                                                   |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                                                                                                                                     |                                                                                                                   |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
DWG. S3-1206-ML-008 SHIT. 1 REV. 0 FCN F-9557M (Continued)							
1/4" SS Tube Union	Parker-Hannifin	HT Code CASJ	N/A	Item #18 SA479GR316 RSO #1243-90	N/A	Replacement	No
1/4" SS Tube To Pipe Adapter	Parker-Hannifin	HT Code CBHW	N/A	Item #21 SA479GR316 RSO #1511-91	N/A	Replacement	No
1/4" Union Elbow, 90°	Parker-Hannifin	HT Code UAOA	N/A	Item #19 SA182GR316 RSO #2439-91	N/A	Replacement	No
1/4" 2500# SS Globe Valve	Anderson-Greenwood	S/N N84169	N/A	Item #17 S31206MR082 RSO #1182-94	N/A	Replacement	Yes
DWG. S3-1206-ML-009 SHIT. 1 REV. 0 FCN F-9558M							
1/2" X .065 Wall SS SMLS Tubing	Sandvik Steel	HT #703114	N/A	Item #3 SA213T316 RSO #0251-95	N/A	Replacement	No
3/4" SS BW Connector	Parker-Hannifin	HT Code HBZP	N/A	Item #4 SA479GR316 RSO #0078-95	N/A	Replacement	No
3/4" X 1/2" SS Tube End Reducer	Parker-Hannifin	HT Code HCBK	N/A	Item #5 SA479GR316 RSO #0078-95	N/A	Replacement	No
1/2" SS Tube Union	Parker-Hannifin	HT Code CASJ	N/A	Item #9 SA479GR316 RSO #1243-90	N/A	Replacement	No
1/2" SS Tube Union 90° Elbow	Parker-Hannifin	HT Code UAOA	N/A	Item #10 SA182GR316 RSO #2439-91	N/A	Replacement	No
1/2" SS Tube to Pipe Adapter	Parker-Hannifin	HT Code CBHW	N/A	Item #11 SA479GR316 RSO #1511-91	N/A	Replacement	No
1/2" 2500# SS Globe Valve	Anderson-Greenwood	S/N N84166	N/A	Item #8 S31206MR083 RSO #1182-94	1994	Replacement	Yes

Owner/Designee:                      Date: 12/12/95

ANII:                      Date: 12/12/95



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                      |                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                                                                               | Unit: 3<br>MO: 94121048000, 95080871000<br>FCN: F1149M<br>Rspec: GEN-106 R1, 192-95<br>P&ID: 40130BSO3, 40111ASO3<br>N-5: S3-1201-3 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                                                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                                        |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                                                                             |                                                                                                                                     |
| 4. Identification of System: Reactor Coolant                                                                                                                                                                                                                                         |                                                                                                                                     |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, W71 Addenda (Pump), 1980 Edition, S'82 Addenda (Seal Cartridge), Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                                                                     |
| 6. Identification of Components Repaired or Replaced and Replacement Components:                                                                                                                                                                                                     |                                                                                                                                     |

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Reactor Coolant Pump	Byron Jackson	701-N-0564	N/A	S31201MP002	1978	---	Yes
Mechanical Seal Cartridge	Bingham Willamette	1714880-5	1165	SO23-CART-15	1986	Replaced	Yes
Mechanical Seal Cartridge	Bingham Willamette	1714880-2	1171	SO23-CART-21, Rebuild MO 95021355	1986	Replacement	
2"-8UN x15 1/2" Studs (4)	Southern Bolt	Ht Code R-1423	N/A	RSO 1759-88, SA540 Gr. B23, Class 4	N/A	Replacement	No
2"-8UN Nuts (4)	Nova Machine Products	Ht Code VH9	N/A	RSO 1854-91, SA194 Gr. 7	N/A	Replacement	No

7. Description of Work:

The reactor coolant pump mechanical seal cartridge was replaced with a spare which had been rebuilt in accordance with MO 95021355, and FCNs F11049M and F11050M. A VT-1 examination was performed on the housing assembly capscrews with satisfactory results. The VT-1 examination of the heat exchanger-to-driver mount bolting warranted replacement of the studs and nuts in locations 2, 3, 4 and 13 as documented in NCR 95080103. This was performed separately using MO 95080871. The removed seal cartridge was placed into the rebuild program.

8. Tests Conducted: System Leakage Pressure Test      Pres: 2250 psia      Temp: 435 F

\* NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/8/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/27/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California

National Board, State, Province, and Endorsements

Date Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128
3. Work Performed by: Bechtel Construction Company  
P.O. Box 450  
San Clemente, CA 92674-0128

Unit: 3  
CWO: 94121089000 94121355000  
DCP: 3-6988.00-0  
Rspec: 023-95  
P&ID: 40124ASO3 B-5  
N-5: S3-1208-10

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Chemical and Volume Control

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Piping & Installation), 1974 Edition, S'75 Addenda (Valve), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
4" x 3/4" 3000# SS Sockolet	Consolidated Power Supply	Ht Code 151WNA	N/A	RSO 1071-95, SA182 F316	N/A	Replacement	No
3/4" Sch 80 SS Pipe	Consolidated Power Supply	Heat 461457	N/A	RSO 3287-93, SA376 TP316	N/A	Replacement	No
3/4" 600# SW Gate Valve	Henry Vogt Machine	7-216845	N/A	S31208MR671, RSO 2048-93	1993	Replacement	Yes

7. Description of Work:

DCP 3-6988.00SN Rev 0 installs vents and drains to enable IST of components not testable under the existing plant configuration. CWO 94121355 verifies and assembles the replacement items and CWO 94121089 installs and tests a vent (S31208MR671) on line S3-1208-ML-007.

Reference: S3-1208-ML-007 Sheet 2, Rev. 5 IDCN S-1

8. Tests Conducted: System Inservice Pressure Test

Pres: 23 psig

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/19/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 4/2/95 to 10/20/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 20, 1995



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
 2244 Walnut Grove Avenue  
 Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
 San Clemente, California 92674-0128
3. Work Performed by: Bechtel Construction Company  
 P. O. Box 450  
 San Clemente, CA 92674-0128

Unit: 3  
 CWO: 94121133000  
 DCP: 3-6988.00-0  
 Rspec: 024-95 R1  
 P&ID: N/A  
 N-5: S3-1206-6

Type Code Symbol Stamp: N/A  
 Authorization No: N/A  
 Expiration Date: N/A

4. Identification of System: Containment Spray

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber	Pacific Scientific	15525	N/A	S3CS017H002	1980	Permanently Deleted	Yes

7. Description of Work:

DCP 3-6988-00SN Rev. 0 installs vents and drains to enable Inservice Testing (IST) of components not testable under existing plant configuration. This includes implementation of the Snubber Reduction Program (SRP) for piping that requires re-analysis of pipe supports as a result of the modification. Snubber S3CS017H002 was removed and permanently deleted.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/2/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 04/02/95 to 11/2/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 2, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128
3. Work Performed by: Bechtel Construction Company  
P. O. Box 450  
San Clemente, CA 92674-0128

Unit: 3  
CWO: 94121135000  
DCP: 3-6988.00-0  
Rspec: 024-95 R1  
P&ID: N/A  
N-5: S3-1204-34

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Containment Spray

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber	Pacific Scientific	3545	N/A	S3CS019H009	1978	Replaced	Yes
9 1/8" Rigid Strut	Lisega	S3-CS-019-H-010	N/A	RSO 0674-95, 3922RR1S	N/A	Replacement	No
Mechanical Snubber	Pacific Scientific	20204	N/A	S3CS019H010	1984	Permanently Deleted	Yes
Mechanical Snubber	Pacific Scientific	3356	N/A	S3CS019H012	1978	Replaced	Yes
9 7/8" Rigid Strut	Lisega	S3-CS-019-H-012	N/A	RSO 0674-95, 3922RR1S	N/A	Replacement	No
Rear Bracket	Lisega	S3-CS-019-H-012	N/A	RSO 0674-95, 3522RR1S	N/A	Replacement	No

7. Description of Work:

DCP 3-6988-00SN Rev. 0 installs vents and drains to enable Inservice Testing (IST) of components not testable under existing plant configuration. This includes implementation of the Snubber Reduction Program (SRP) for piping that requires re-analysis of pipe supports as a result of the modification. Snubber S3CS019H010 was removed and permanently deleted. Snubbers S3CS019H009 and S3CS019H012 were removed and replaced with rigid struts. The rear bracket for S3CS019H012 was replaced.

Reference: Drawings S3-CS-019-H-009 Rev. 0, IDCN S-1, S3-CS-019-H-012, Rev. 0, IDCN S-1

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/2/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 05/16/95 to 11/2/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 2, 1995

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                                                                                                                                     |                                                                                                                                     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                                                                                                                           | Sheet 1 of 1<br>Unit: 2<br>CWO: 94121137000<br>DCP: 3-6988.00SN Rev. 0<br>Repair Spec: 025-95 Rev. 0<br>P&ID: N/A<br>N-5: S3-1201-4 |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                                        |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128                                                                                                                      |                                                                                                                                     |
| 4. | Identification of System: Reactor Coolant (1201)                                                                                                                                                                    |                                                                                                                                     |
| 5. | (a) Applicable Construction Code: ASME Section III, Class NF-2, 1974 Edition, S'74 Addenda, Code Cases: None<br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda |                                                                                                                                     |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                                                                                                                                       |                                                                                                                                     |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Spring Can	Grinnell	S3-RC-027-H-003	N/A	S3-RC-027-H-003	N/A	Replaced	No
Snubber	Pacific Scientific	S/N 3557	N/A	S3-RC-027-H-004	1978	Replaced	Yes
Snubber	Pacific Scientific	S/N 2615	N/A	S3-RC-027-H-005	1978	Replaced	Yes
Dwg: S3-RC-027-H-004 Rev. 0 IDCN S-1							
Rigid Strut	Lisega	S3-RC-027-H-004 Part # 3922RR1S	N/A	Item #61 RSO#0674-95	N/A	Replacement	No

7. Description of Work: DCP 3-6988.00SN Rev. 0 installs vents and drains to enable In-Service Testing (IST) of components not testable under the existing plant configuration. This includes implementation of the Snubber Reduction Program (SRP) for piping that requires reanalysis of pipe supports as the result of the modification. Spring can S3-RC-027-H-003 and snubber S3-RC-027-H-005 were removed and deleted. Snubber S3-RC-027-H-004 was removed and replaced with a rigid strut. Supports (non-ASME) S3-RC-027-H-006 and S3-RC-027-H-007 were modified per the drawings.
- Reference: Stress Calculation M-1201-027-AA
8. Tests Conducted: None

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/4 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the ALA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *Al Hill*  
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 10/24, 1995

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 4/11/95 to 10/25/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*P. Thompson*  
Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Oct. 25, 1995



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                             |                                                                              |
|----|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                   | Sheet 1 of 1<br>Unit: 3<br>CWO: 94121143000<br>DCP: 3-6988.00SN              |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                                 | Repair Spec: 026-95 REV. 0<br>P&ID: N/A<br>N-5: S3-1204-12                   |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128              | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. | Identification of System: SAFETY INJECTION (1204)                                                           |                                                                              |
| 5. | (a) Applicable Construction Code: ASME Section III, Class NF-2 1974 Edition, S'74 Addenda, Code Cases: None |                                                                              |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda         |                                                                              |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                               |                                                                              |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Snubber	Pacific Scientific	4042	N/A	S3-SI-050-H-003	1978	Replaced	Yes
DWG. S3-SI-050-H-017 Rev. 0							
P-89-2A 3/4" Pipe Strap	ITT Grinnell	A	N/A	Item #67 FGD-P-89-2A P/N CL144N RSO #0653-87	N/A	Replacement	No

7. Description of Work: DCP 3-6988.00SN Rev. 0 installs vents and drains to enable In-Service Testing (IST) of components not testable under existing plant configuration. This includes implementation of the Snubber Reduction Program (SRP) for piping that requires re-analysis of pipe supports as a result of the modification. Snubber S3-SI-050-H-003 was removed and deleted. A pipe guide was installed by welding per DWG. S3-SI-050-H-017 Rev. 0.
8. Tests Conducted: None

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Weiler Supervising ASME Codes Engineer Date: 11/1, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 05/09/95 to 11/02/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

W. Thompson Commissions 1862 California  
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Nov 2, 1995

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company<br/>P.O. Box 450<br/>San Clemente, CA 92674-0128</p> <p>4. Identification of System: Safety Injection (L204)</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None (Piping)<br/>ASME Section III Class 2, 1983 Edition, S'83 Addenda, Code Cases: None (Valve)</p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3</p> <p>CWO: 94121304000, 94111340000</p> <p>DCP: 3-6988.00SN Rev. 0</p> <p>Repair Spec: 019-95 Rev. 0</p> <p>P&amp;ID: 40114DS03</p> <p>N5: S3-1204-34</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
S3-1204-ML-048 Sht. 1 Rev. 6 1 DCN S-1							
4" x 3/4" 3000# SS Sockolet	WFI Inc.	Ht. #775VNA	N/A	Item #4 SA182 F316 RSO #1396-94	N/A	Replacement	No
3/4" Sch. 80 SS Pipe	Consolidated Power Supply	Ht. #461457	N/A	Item #5 SA-376 Gr. 316 RSO #3287-93	N/A	Replacement	No
3/4" SS SW Gate Valve	Anchor Darling	S/N E3265-17-3	N/A	Item #6 S3-1204-MR-446 RSO #0543-90	1990	Replacement	Yes

7. Description of Work:
- DCP 3-6988.00SN Rev. 0 installs vents and drains to enable In-Service Testing (IST) of components not testable under existing plant configuration. The vent valve assembly S3-1204-MR-445 was fabricated on CWO #94121304. It was installed on line S3-1204-ML-048-4"-C-GEO (between 3HV-9347 and 3HV-9348) and tested in accordance with CWO #94111340.
8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
Pressure: 211 psig Temp: N/A °F

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: The replacement valve was certified to a higher code class, ASME III-1, as allowed by ASME III, Paragraph NCA 2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair and replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 9/6, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/95 to 9/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Sept. 7, 1995

94121086

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, CA 92674-0128
3. Work Performed by: Bechtel Construction Company  
P.O. Box 450  
San Clemente, CA 92674-0128
4. Identification of System: Safety Injection (1204)
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None (Piping)  
ASME Section IV, Class 2, 1983 Edition, S'83 Addenda, Code Cases: None (Valve)
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Sheet 1 of 1  
Unit: 3  
CWO: 94121348000, 94121086000  
DCP: 3-6988.00SN REV. 0  
Repair Spec: 019-95 REV. 0  
P&ID: 40114DS03  
N-5: S3-1204-34

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
S3-1204-ML-052 Sht. 1, Rev. 6, IDCN S-1							
3/4" 3000# SS Sockolet	WFI Int'l Inc.	HT #775VNA	N/A	Item #9 SA-182 Gr. F316 RSO #1396-94	N/A	Replacement	No
3/4" Sch 80S SS Pipe	Consolidated Power Supply	HT #461457	N/A	Item #10 SA-376 Gr. TP316 RSO #3287-93	N/A	Replacement	No
3/4" SS Gate Valve	Anchor Darling	S/N E-3265-17-5	N/A	Item #11 S3-1204-MR-445 RSO #0543-90	1990	Replacement	Yes

7. Description of Work:  
DCP 3-6988.00SN Rev. 0 installs vents and drains to enable In-Service Testing (IST) of components not testable under the existing plant configuration. The vent valve assembly for S3-1204-MR-445 was fabricated on CWO 94121348000. It was installed on line S3-1204-ML-052-4"-C-GED (between 3HV9306 and 3HV9307) and tested in accordance with CWO 94121086000.
8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
Pressure: 273 psig Temp: N/A

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/4 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

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94121084

FORM NIS-2 (back)

9. Remarks: The valve installed in location S3-1204-MR-445 (Anchor Darling s/n E3265-17-5) is ASME Section III, Class 1, 1983 Edition, S'83 Addenda, Code Cases: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 7/12, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/95 to 7/13/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature (National Board, State, Province, and Endorsements)

Date July 13, 1995



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue, Rosemead, CA 91770

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, CA 92674-0128

3. Work Performed by: Bechtel Construction Company  
P.O. Box 450  
San Clemente, CA 92674-0128

4. Identification of System: Safety Injection (1204)

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None (Piping)  
ASME Section III, Class 2, 1974 Edition, S'75 Addenda, Code Cases: None (Valve)

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Dwg. S3-1204-ML-050 Sht 2 Rev. 13 IDCN S-1							
2" x 3/4" 3000# SS Socket	Consolidated Power Supply	HT# 228XNA	N/A	Item #35 SA182F304 RSO#1071-95	N/A	Replacement	No
3/4" Sch. 40S SS Pipe	Consolidated Power Supply	HT# 461144	N/A	Items # 36, 37 SA376TP304 RSO# 0756-95	N/A	Replacement	No
3/4" 3000# SS 90 SW Elbow	Camco	HT# ER	N/A	Item #38 SA182GR304 RSO#3230-88	N/A	Replacement	No
3/4" 600# SS SW Gate Valve	Henry Vogt	S/N 20-216845	N/A	Item #39 S3-1204-MR-447 RSO# 2048-93	1993	Replacement	Yes

7. Description of Work: DCP 3-6988 installs vents and drains to enable In-Service Testing (IST) of components not testable under the existing plant configuration. CWO 94121350000 verifies and assembles the replacement material and CWO 94111402000 installs and tests a drain (S3-1204-MR-447) on Line S3-1204-ML-050 Sht. 2.

8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
Pressure: 350.06 psig Temp: N/A °F

Sheet 1 of 1

Unit: 3  
CWO: 94121350000, 94111402000  
DCP: 3-6988.00SN Rev. 0  
Repair Spec: 022-95 Rev. 0  
P&ID: 40112BS03  
N-5: S3-1204-12

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the ALA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/13, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/95 to 10/10/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature: [Signature] Commissions: 1862 California  
(National Board, State, Province, and Endorsements)

Date: Oct 16, 1995

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                                                                                                                                                                                                                                                                                                                     | Sheet 1 of 1<br>Unit: 3<br>CWO: 94121357000, 94121104000<br>DCP: 3-6988.00SN Rev. 0<br>Repair Spec: 020-95 REV 0, 021-95 REV 0<br>P&ID: 40112B503<br>N-5: S3-1208-11 |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                                                                                                                                                                                                                                                                                                                                   | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                                                                         |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                      |
| 4. | Identification of System: Chemical and Volume Control (1208)                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                      |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None (Piping)<br>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Cases: None (Valve MU-216)<br>ASME Section III, Class 2, 1974 Edition, S'75 Addenda, Code Cases: None (Valve MR-050)<br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda |                                                                                                                                                                      |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                      |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Dwg. S3-1208-ML-098 Sht. 2 Rev. 8, IDCN S-1							
3" Sch. 40S SS Pipe	AI Tech Specialty	HT# AH8352	N/A	Item 12, 15 SA376TP304 RSO #1751-94	N/A	Replacement	No
3" Sch. 40S SS 90 Elbow	Ladish Co.	HT# Z4TSJ	N/A	Item #13 SA403WP304 RSO #1388-94	N/A	Replacement	No
3" x 1" 3000# SS Sockolet	Consolidated Power Supply	HT# 228XNA	N/A	Item #16 SA182F304 RSO #1071-95	N/A	Replacement	No
1" Sch 40S SS Pipe	AI Tech Specialty	HT#A6467H	N/A	Items#17, 19 SA376GR304 RSO #2401-92	N/A	Replacement	No
1" 3000# SS SW 90 Elbow	ASP	HT# ER	N/A	Item#18 SA182F316 RSO #3002-88	N/A	Replacement	No
1" 600# SS BW Gate Valve	Kerotest Mfg. Corp.	S/N 0W25-7	N/A	Item #2 S31208MR050	1976	Replaced	Yes
1" 600# SS SW Gate Valve	Henry Vogt	S/N 8-215457	N/A	Item #20 S31208MR050 RSO #1592-87, CR-3010-94	1987	Replacement	Yes
3" 300# SS BW Gate Valve	Control Components	S/N 653361-1-2	N/A	Item #14 S31208MU216 RSO #1445-94	1994	Replacement	Yes

7. Description of Work DCP 3-6988 installs vents and drains to enable In-Service Testing (IST) of components not testable under the existing plant configuration. CWO 94121357000 verifies and assembles the replacement material and CWO 94121104000 installs and tests the valve drain assembly on line S3-1208-ML-098 Sht. 2.
8. Tests Conducted: System Leakage (x) System Functional ( ) System Inservice ( ) Hydrostatic ( ) Pneumatic ( ) Other ( )  
Pressure: 312.7 psig Temp: 120.9 F

Note Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2" x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/24, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 4/21/95 to 10/25/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Oct. 25, 19 95

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                   |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                            | Unit: 3<br>MO: 95010298000<br>Rspec: GEN-112 R1<br>P&ID: 40124BSO3<br>N-5: S3-1208-5 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                            |                                                                                      |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A         |
| 4. Identification of System: Chemical and Volume Control                                                                                                                                                                          |                                                                                      |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                      |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1 1/2" x 2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59380-00-0011	N/A	3PSV9227	1985	Replaced	Yes
1 1/2" x 2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59380-00-0009	N/A	Rebuild MO 94111666	1985	Replacement	Yes

7. Description of Work:

The relief valve leaked from the valve plug as well as the top of the valve. The valve was replaced with a tested spare (Reference MO 94111666). The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2350 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/3/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code, Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95010798000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40112CSO3  
N-5: S3-1204-11

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	4771	N/A	S3SI021H011	1978	Permanently Deleted	Yes
Mechanical Snubber PSA 1-4	Pacific Scientific	2116	N/A	S3SI021H014	1977	Permanently Deleted	Yes
Mechanical Snubber PSA 3-5	Pacific Scientific	13643	N/A	S3SI021H017	1980	Permanently Deleted	Yes
Mechanical Snubber PSA 3-5	Pacific Scientific	4579	N/A	S3SI021H021	1978	Permanently Deleted	Yes
Mechanical Snubber PSA 1/4	Pacific Scientific	6139	N/A	S3SI021H023	1978	Permanently Deleted	Yes
Mechanical Snubber PSA 1-8	Pacific Scientific	393	N/A	S3SI021H031	1980	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1204-021-2A (PSG-247) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95010799000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40112CSO3  
N-5: S3-1204-11

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	15531	N/A	S3SI146H004N	1980	Permanently Deleted	No
Mechanical Snubber PSA 1/4	Pacific Scientific	15528	N/A	S3SI146H004S	1980	Permanently Deleted	No
Mechanical Snubber PSA 1 - 4	Pacific Scientific	4661	N/A	S3SI164H005	1978	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1204-021-2A (PSG-247) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/20/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95010805000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40112CSO3  
N-5: S3-1204-11

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Spring Canister	Itt Grinnell	S3-SI-021-H-013	N/A	S3SI021H013	N/A	Permanently Deleted	No

7. Description of Work:

The spring canisters and slide bearing pads were no longer required per the latest pipe stress calculation M-1204-021-2A (PSG-247) and were permanently removed in accordance with DCP 3-6683.04SP. The spring can was removed by cutting, followed by removal of its attachment weld by grinding. Miscellaneous attachments were left in-place.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 5/12/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                  |                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 95010908000<br>Rspec: EREF-0248<br>P&ID: 40134DSO3 E-6<br>N-5: S3-1212-8 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System Nuclear Plant Sampling                                                                                                                                                                               |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Y-Type Check Valve	Kerotest	TKB2-19	N/A	S31212MU019	1976	---	Yes
Disc	Kerotest	ADT41-2	N/A	RSO 2-P-1372-83, SA479 316	1983	Replacement	Yes

7. Description of Work:

The valve was disassembled for cleaning and inspection due to operational difficulties. The valve disc could not be reused and was replaced.

8. Tests Conducted: System Functional Pressure Test      Pressure: 311 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement disc was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Compatible Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Provin. . of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 2/26/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
 2244 Walnut Grove Avenue  
 Rosemead, California 91770

Unit: 3  
 MO: 95010949000  
 DCP: 3-6683.04SP  
 Rspec: 078-95  
 P&ID: 40112CSO3  
 N-5: S3-1219-2

2. Plant: San Onofre Nuclear Generating Station  
 San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
 Authorization No: N/A  
 Expiration Date: N/A

4. Identification of System Refueling Water Tanks

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	4640	N/A	S3FS007H003	1978	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1219-007-AA (PSG-253) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/15/95 to 10/19/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 19, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011046000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40112ASO3  
N-5: S3-1204-34

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	2691	N/A	S3SI048H004	1977	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubber with attachment hardware was no longer required per the latest pipe stress calculation M-1204-014-3A (PSG-747) and was permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011047000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40112ASO3  
N-5: S3-1204-34

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2	Pacific Scientific	3570	N/A	S3SI049H003	1978	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubber with attachment hardware was no longer required per the latest pipe stress calculation M-1204-014-3A (PSG-747) and was permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- |                                                                                                        |                                                                                                                               |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 95011049000 95080389000<br>DCP: 3-6683.04SP<br>Rspec: 079-95 R1, GEN-151<br>P&ID: 40112ASO3<br>N-5: S3-1204-34 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 |                                                                                                                               |

- |                                                                   |                                                                              |
|-------------------------------------------------------------------|------------------------------------------------------------------------------|
| 3. Work Performed by: Southern California Edison Company          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. Identification of System Safety Injection and Shutdown Cooling |                                                                              |

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	3893	N/A	S3SI048H007	1977	Replaced	Yes
11 7/8" Rigid Strut	Lisega	S3-SI-048-H-007	N/A	RSO 1022-95, 3922RR1S	N/A	Replacement	No
Load Pin	Pacific Scientific	Heat N3199A	N/A	RSO 1212-93, SA564 Gr. 630	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP and MO 95011049. One of the load pins was unsatisfactory and was replaced on a separate MO (95080389). The existing rear brackets were reused. A VT-3 examination of the support assembly was performed after installation. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1204-014-3A (PSG-747)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks CR-3006-95 reconciles the replacement load pin which was certified to ASME III-1, 1980 Edition, S'82 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/27/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/28/95 to 10/31/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 31, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company 2244 Walnut Grove Avenue Rosemead, California 91770	Unit: 3 MO: 95011051000 95080345000 DCP: 3-6683.04SP Rspec: 079-95 R1, GEN-151 P&ID: 40112ASO3 N-5: S3-1204-34
2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-0128	

3. Work Performed by: Southern California Edison Company	Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A
4. Identification of System: Safety Injection and Shutdown Cooling	

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2	Pacific Scientific	1602	N/A	S3SI053H003	1977	Replaced	Yes
9" Rigid Strut	Lisega	S3-SI-053-H-053	N/A	RSO 1022-95, 3922RR1S	N/A	Replacement	No
Load Pin	Pacific Scientific	Heat N3199A	N/A	RSO 1212-93, SA564 Gr. 630	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP and MO 95011049. One of the load pins was unsatisfactory and was replaced on a separate MO (95080345). The existing rear brackets were reused. A VT-3 examination of the support assembly was performed after installation. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1204-014-3A (PSG-747)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks CR-777 reconciles the replacement load pin which was certified to ASME III-1, 1980 Edition, S'82 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer: Date: 10/26/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 01/28/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011054000  
DCP: 3-6683.04SP  
Rspec: 079-95 R1  
P&ID: 40112ASO3  
N-5: S3-1204-34

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	36771	N/A	S3SI185H00A	1985	Replaced	No
11 3/4" Rigid Strut	Liseqa	S3-SI-185-H-00A	N/A	RSO 1022-95, 3922RR1	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP. The existing rear brackets were reused. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1204-014-3A (PSG-747)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/28/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec 7, 1995



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011097000  
DCP: 3-6683.04SP  
Rspec: 084-95  
P&ID: 40112CSO3  
N-5: S3-1204-11

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2	Pacific Scientific	9176	N/A	S3SI021H002N	1980	Replaced	No
Mechanical Snubber PSA 1/2	Pacific Scientific	20429	N/A	S3SI021H002S	1987	Replaced	No
9" Rigid Struts (2)	Lisega	S3-SI-021-H-002	N/A	RSO 1022-95, 3952RR1	N/A	Replacement	No
Rear Brackets w/Load Pins (4)	Lisega	S3-SI-021-H-002	N/A	1093-95, 3552RR1	N/A	Replacement	No

7. Description of Work:

The mechanical snubbers were replaced with rigid struts in accordance with DCP 3-6683.04SP and FIDCN M-10164. VT-3 examinations of the support assemblies were performed after installation. The rear brackets and load pins were also replaced. Installation and NDE was performed using weld record WR3-95-252. The removed snubbers were placed into the snubber rebuild program. Reference: Stress Calculation M-1204-014-AA (PSG-8)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/8/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/1/95 to 12/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 11, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011313000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40114BS03  
N-5: S3-1206.1

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Containment Spray

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	2198	N/A	S3CS003H010	1977	Permanently Deleted	Yes
Mechanical Snubber PSA 1/2	Pacific Scientific	20238	N/A	S3CS003H053B	1984	Permanently Deleted	No
Mechanical Snubber PSA 1/2	Pacific Scientific	20199	N/A	S3CS003H053T	1984	Permanently Deleted	No
Mechanical Snubber PSA 1-4	Pacific Scientific	5363	N/A	S3CS003H063	1979	Permanently Deleted	No

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1206-003-AA (PSG-53) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/1/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/28/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 4, 1995



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
 2244 Walnut Grove Avenue  
 Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
 San Clemente, California 92674-0128
3. Work Performed by: Southern California Edison Company

Unit: 3  
 MO: 95011350000  
 DCP: 3-6683.04SP  
 Rspec: 078-95  
 P&ID: 40114BSO3  
 N-5: S3-1206-1

4. Identification of System: Containment Spray

Type Code Symbol Stamp: N/A  
 Authorization No: N/A  
 Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1	Pacific Scientific	2104	N/A	S3CS003H041	1977	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubber with attachment hardware was no longer required per the latest pipe stress calculation M-1206-003-4A (PSG-53) and was permanently removed in accordance with DCP 3-6683.04SP. The rear bracket was left in-place. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the A.I.A.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturers Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128
3. Work Performed by: Southern California Edison Company

Unit: 3  
MO: 95011351000  
DCP: 3-6683.04SP  
Rspec: 079-95 R1  
P&ID: 40114BSO3  
N-5: S3-1206-1

4. Identification of System: Containment Spray

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replz ed or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1	Pacific Scientific	1644	N/A	S3CS003H043	1977	Replaced	Yes
15 1/2" Rigid Strut	Lisega	S3-CS-003-H-043	N/A	RSO 1022-95, 3932RR1S	N/A	Replacement	No
Mechanical Snubber PSA 3-5	Pacific Scientific	3515	N/A	S3CS003H044	1977	Replaced	Yes
19 3/4" Rigid Strut	Lisega	S3-CS-003-H-044	N/A	RSO 1022-95, 3952RR1S	N/A	Replacement	No
Mechanical Snubber PSA 3-5	Pacific Scientific	2202	N/A	S3CS003H046B	1977	Replaced	Yes
Mechanical Snubber PSA 3-5	Pacific Scientific	2129	N/A	S3CS003H046T	1977	Replaced	Yes
18 9/16" Rigid Struts (2)	Lisega	S3-CS-003-H-046	N/A	RSO 1022-95, 3952RR1S	N/A	Replacement	No
Mechanical Snubber PSA 3-5	Pacific Scientific	5291	N/A	S3CS003H047	1978	Replaced	Yes
18 9/16" Rigid Strut	Lisega	S3-CS-003-H-047	N/A	RSO 1022-95, 3952RR1S	N/A	Replacement	No

7. Description of Work:

The mechanical snubbers were replaced with rigid struts in accordance with DCP 3-6683.04SP. The existing attachment hardware was reused. The removed snubbers were placed into the snubber rebuild program. Reference: Stress Calculation M-1206-003-4A (PSG-55)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/11/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011353000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40114BSO3  
N-5: S3-1206-1

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Containment Spray

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Man-ufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Spring Hangers (2)	Itt Grinnell	S3-CS-003-H-045	N/A	S3CS003H045A S3CS003H045B	N/A	Permanently Deleted	No

7. Description of Work:

The spring hanger assembly was no longer required per the latest pipe stress calculation M-1206-003-4A (PSG-55) and was permanently removed in accordance with DCP 3-6683.04SP. The attachment bracket was left in-place.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 5/1/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 17, 1995



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company<br/>P.O. Box 450<br/>San Clemente, CA 92674-0128</p> <p>4. Identification of System: Chemical and Volume Control (1208)</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, W'74 Addenda, Code Cases: None<br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p style="text-align: right;">Sheet 1 of 2</p> <p>Unit: 3<br/>CWO: 95011379000, 95011362000,<br/>95011308000, 95011377000,<br/>95011370000<br/>DCP: 3-2012.00SN Rev. 0<br/>Repair Spec: 014-95 Rev. 0, 012-95 Rev. 1,<br/>013-95 Rev. 0<br/>P&amp;ID: 40123BS03<br/>N-5: S3-1208-13</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
CVCS Purification Filter	VACCO Industries/ Greer Hydraulics	S/N GHI 2587	N/A	S3-1208-MF-020	1976	Repaired	Yes
Vendor Dwg. 1814-AA373-D0002							
Housing Cover	Energy Steel & Supply Co.	Ht. #2C047	N/A	Item #1 SA-240 Gr. T304 RSO #1332-94	N/A	Replacement	No
Trunion Lug	Energy Steel & Supply Co.	Ht. #861483AL	N/A	Item #3 SA-240 Gr. T304 RSO #1332-94	N/A	Replacement	No
Bolt Stop	Energy Steel & Supply Co.	Ht. #861483AL	N/A	Item #4, 5 SA-240 Gr. T304 RSO #1332-94	N/A	Replacement	No
Bolt Trunion	Energy Steel & Supply Co.	Ht. #30830	N/A	Item #6 SA-479 Gr. T304 RSO #1332-94	N/A	Replacement	No
1-1/8"-8-UNC-2A Closure Bolt	Energy Steel & Supply Co.	Ht. #41040	N/A	Item #7 SA-193 B8M RSO #0047-95	N/A	Replacement	No

7. Description of Work:
- DCP 3-2012.00 SN Rev. 0 modifies the CVCS purification filters to improve ultra-filtration of RCS particulates and reduce/eliminate personnel radiation exposure and contamination. The CVCS purification filter housing on S3-1208-MF-020 was removed and replaced utilizing replacement parts per Dwg. 1814-AA373-D0002-1. Closed CWO #94062923 verified ASME materials for both Unit 2 & 3 parts. CWO #95011370 addresses vendor support for machining of the filter vessel flange. CWO #95011362 modifies the filter vessel to accept a new cartridge. CWO #95011377 removes relief valve 3PSV9207, removes inlet flange and verifies and installs a pipe cap on the PSV inlet pipe. CWO #95011308 verified and welded the closure bolts to the washers. CWO #95011379 removes the check valve internals on valve S3-1208-MU-073. CWOs #95011308, 95011362 and 95011370 conducted the system functional/VT-2 tests.
8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
Pressure: 343 psig Temp: N/A °F

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: The replacement valve was certified to a higher code class, ASME III-1, as allowed by ASME III, Paragraph NCA 2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair and replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 9/6, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/11/95 to 9/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Sept. 7 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, CA 92674-0128
3. Work Performed by: Southern California Edison Company
4. Identification of System: Chemical and Volume Control (1208)

Sheet 2 of 2  
 Unit: 3  
 CWO: 95011379000, 95011362000,  
 95011308000, 95011377000,  
 95011370000  
 DCP: 3-2012.GUSN Rev. 0  
 Repair Spec: 014-95 Rev. 0, 012-95 Rev. 1,  
 013-95 Rev. 0  
 P&ID: 40123BS03  
 N-5: S3-1208-13

Type Code Symbol Stamp: N/A  
 Authorization No: N/A  
 Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, W-74 Addenda, Code Cases: None  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
S3-1208-ML-106 Sht. 1 Rev. 2 IDCN 5-1							
3" Swing Check Valve	Walworth/Aloyco	S/N A3362	1181	S3-1208-MU-073	1979	See Part. #7 Description of Work	Yes
S3-1208-ML-111 Sht. 1 Rev. 9 IDCN 5-1 FIDCN M9856							
1" Relief Valve	Crosby Valve & Gage	S/N N59368-00-0002	N/A	3PSV9207	1977	Replaced	Yes
1"-3000 #SS SW End Cap	CAMCO	Ht. #DAW	N/A	Item #16 SA403WP304 RSO #0190-84	N/A	Replacement	No

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

Unit: 3  
MO: 95011429000  
DCP: 3-6683.04SP  
Rspec: 079-95 R1  
P&ID: 40124BSO3  
N-5: S3-1208-5

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Chemical and Volume Control

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2	Pacific Scientific	1340	N/A	S3VC008H039	1977	Replaced	Yes
25 3/8" Rigid Strut	Lisegea	S3-VC-008-H-039	N/A	RSO 1022-95, 3922RR1S	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP. The existing brackets were reused. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1208-008-4A (PSG-110)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/17/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/11/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011430000  
DCP: 3-6683.04SP  
Rspec: 079-95 R1  
P&ID: 40123BSO3  
N-5: S3-1208-5

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Chemical and Volume Control

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	11257	N/A	S3VC104H019S	1980	Replaced	No
30" Rigid Strut	Lisega	S3-VC-104-H-019	N/A	RSO 1022-95. 3932RR1	N/A	Replacement	No
Mechanical Snubber PSA 1-4	Pacific Scientific	11726	N/A	S3VC104H019W	1980	Replaced	No
23 1/4" Rigid Strut	Lisega	S3-VC-104-H-019	N/A	RSO 1022-95. 3932RR1	N/A	Replacement	No

7. Description of Work:

The mechanical snubbers were replaced with rigid struts in accordance with DCP 3-6683.04SP. The existing attachment hardware was reused. The removed snubbers were placed into the snubber rebuild program. Reference: Stress Calculation M-1208-008-4A (PSG-110)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/17/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/11/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                         |                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                                  | Unit: 3<br>MO: 95011707000<br>Rspec: 154-95<br>P&ID: 40111BSO3<br>N-5: S3-1201-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                                  |                                                                                  |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                                | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A     |
| 4. Identification of System Reactor Coolant                                                                                                                                                                                             |                                                                                  |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S'71 Addenda, Code Cases: 1588, 1820</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                  |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Immersion Heater	Combustion Engineering/ Watlow	34E	N/A	S31201ME612	1981	Replaced	Yes
Pressurizer Heater	Combustion Engineering/ Watlow	6	N/A	RSO 4723-85 R1, SA213 Tp 316, SA479 Tp 316	1985	Replacement	No

7. Description of Work:

S31201ME612 pressurizer heater, located in sleeve H3 of ME087 was replaced due to grounding as described in NCR 95010051. The existing heater was removed by cutting the heater-to-sleeve fillet weld. The sleeve end was prepped for welding and the replacement heater was installed using weld record WR3-95-460. A final PT examination was performed on the completed weld with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 435 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the A.I.A.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-line)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/6/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/10/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System Main Steam</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p>Unit: 3<br/>MO: 95011742000 95081590000<br/>DCP: 3-6683-04SP<br/>Rspec: 079-95 R1, 199-95<br/>P&amp;ID: 40141CSO3<br/>N-5: S3-1301-2</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 100	Pacific Scientific	267	N/A	S3ST002H026	1977	Replaced	Yes
36 3/4" Rigid Strut	Lisega	S3-ST-002-H-026	N/A	RSO 1063-95, CR-2000-95	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was replaced with a rigid strut in accordance with DCP 3-6683.04SP. The existing attachment brackets were reused. The replacement strut end paddles would not fit into the existing rear brackets and were machined in accordance with DCN 19 to CS-P207 and MO 95081590. A VT-3 examination of the support assembly was performed after installation. The removed snubber was placed into the snubber rebuild program. Reference: Stress Calculation M-1301-002-5A (PSG-351)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturers Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/21/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011744000  
DCP: 3-6683.04SP  
Rspec: 078-95  
P&ID: 40141CSO3  
N-5: S3-1301-2

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Main Steam

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Spring Cannister	Sanwa Tekki Corp.	NS00571	N/A	S3ST002H013A	1980	Permanently Deleted	No
Spring Cannister	Sanwa Tekki Corp.	NS00570	N/A	S3ST002H013B	1980	Permanently Deleted	No

7. Description of Work:

The spring canisters and slide bearing pads were no longer required per the latest pipe stress calculation M-1301-002-4A (PSG-14) and were permanently removed in accordance with DCP 3-6683.04SP. The spring can was removed by cutting, followed by removal of its attachment weld by grinding. Miscellaneous attachments were left in-place.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Meider Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Ma. sachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

CP Thompson  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
 2244 Walnut Grove Avenue  
 Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
 San Clemente, California 92674-0128

Unit: 3  
 MO: 95011796000  
 DCP: 3-6683.04SP  
 Rspec: 078-95  
 P&ID: 40141CSO3  
 N-5: S3-1301-2

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
 Authorization No: N/A  
 Expiration Date: N/A

4. Identification of System: Main Steam

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	38660	N/A	S3ST002H061	1991	Permanently Deleted	No
Mechanical Snubber PSA 1	Pacific Scientific	6933	N/A	S3ST002H065	1979	Permanently Deleted	Yes

7. Description of Work:

The mechanical snubbers with attachment hardware were no longer required per the latest pipe stress calculation M-1301-002-5A (PSG-351) and were permanently removed in accordance with DCP 3-6683.04SP. The rear brackets were left in-place. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/17/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 17, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128
3. Work Performed by: Southern California Edison Company

Unit: 3  
MO: 95011798000 95081797000  
DCP: 3-6683.04SP  
Rspec: 079-95 R1, GEN-152 R1  
P&ID: 40141CSO3  
N-5: S3-1301-2

4. Identification of System Main Steam

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	37498	N/A	S3ST002H059	1986	Replaced	Nc
19 1/2" Rigid Strut	Lisega	S3-ST-002-H-059	N/A	RSO 1022-95, 3922RR1	N/A	Replacement	No
Mechanical Snubber PSA 1/4	Pacific Scientific	13720	N/A	S3ST002H062	1980	Replaced	No
24 5/8" Rigid Strut	Lisega	S3-ST-002-H-062	N/A	RSO 1022-95, 3922RR1	N/A	Replacement	No
Mechanical Snubber PSA 1	Pacific Scientific	4512	N/A	S3ST002H064	1978	Replaced	No
39 3/4" Rigid Strut	Lisega	S3-ST-002-H-064	N/A	RSO 1022-95, 3922RR1S	N/A	Replacement	No
Load Pins (2)	Pacific Scientific	Ht Code N2917B	N/A	RSO 0072-92, CR-3006-95	N/A	Replacement	No

7. Description of Work:

The mechanical snubbers were replaced with rigid struts in accordance with DCP 3-6683.04SP. The existing attachment brackets were reused. Support S3ST002H064 load pins were missing. Replacement load pins were installed using MO 95081797. VT-3 examinations of the support assemblies were performed after installation. The removed snubbers were placed into the snubber rebuild program. Reference: Stress Calculation M-1301-002-5A (PSG-351)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks CR-2006-95 reconciles the replacement load pins which were certified to III-1NF, 1980 Edition, S'82 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/11/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862

California

National Board, State, Province, and Endorsements

Date Oct. 18, 1995





FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this deletion conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/15/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provision, of the ASME Code Section II

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95011850000  
DCP: 3-6683.04SP  
Rspec: 079-95 R1  
P&ID: 40122BSO3  
N-5: S3-1219-4

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Refueling Water Tanks

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1	Pacific Scientific	11718	N/A	S3FS107H006	1980	Replaced	No
20" Rigid Strut	Lisega	S3-FS-107-H-006	N/A	RSO 1022-95, 3932RR1	N/A	Replacement	No
Mechanical Snubber PSA 3	Pacific Scientific	15102	N/A	S3FS107H007B	1980	Replaced	No
Mechanical Snubber PSA 3	Pacific Scientific	13333	N/A	S3FS107H007T	1980	Replaced	No
19 1/2" Rigid Struts (2)	Lisega	S3-FS-107-H-007	N/A	RSO 1022-95, 3952RR1	N/A	Replacement	No

7. Description of Work:

The mechanical snubbers were replaced with rigid struts in accordance with DCP 3-6683.04SP and FIDCN M10167. The existing attachment brackets were reused. VT-3 examinations of the support assemblies were performed after installation. The removed snubbers were placed into the snubber rebuild program. Reference: Stress Calculation M-1204-080-AA (PSG-205)

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/11/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                         |                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                                  | Unit: 3<br>MO: 95011914, 95051680, 95061363, 95071661<br>Rspec: GEN-148, 153-95, 176-95<br>P&ID: 40111BSO3<br>N-5: S3-1201-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                                  |                                                                                                                              |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                                | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                                 |
| 4. Identification of System Reactor Coolant                                                                                                                                                                                             |                                                                                                                              |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class I, 1971 Edition, S'71 Addenda, Code Cases: 1588, 1820</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                                                              |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Pressurizer Heater	Combustion Engineering/ Watlow	11E	N/A	S31201ME604	1981	Repaired	Yes
2" Diam. Round Bar	Tioga Pipe Supply	Heat 832VNA	N/A	RSO 1894-93, SA182 F316, CR- 3007-95	N/A	Replacement	No

7. Description of Work:

S31201ME604 pressurizer heater, located in sleeve D1 of ME087 was scheduled for replacement due to grounding as described in NCR 95010019. MO 95011680 attempted to remove the existing heater but without success. The work scope was then changed to abandon the existing heater in-place and plug. Using MO 95061363, the heater core was removed and the heater sheath was prepped for welding. The heater sheath-to-sleeve weld was reinstalled using weld record WR3-95-464 and the heater plug installed using weld record WR3-95-461. A final PT examination was performed on the completed weld with satisfactory results. Support MO 95071661 machined the heater plug from bar stock and performed a PT examination of the plug, prior to installation.

Reference: NCR 95010019, NCR 95070110

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 435 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks CR-3007-95 reconciles the replacement plug material which was certified to ASME III-1, 1971 Edition, S72 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/10/95 to 12/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 6, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                  |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 95031331000<br>Rspec: GEN-112 R1<br>P&ID: 40124B H-2<br>N-5: S3-1208-5 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                       |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A          |
| 4. Identification of System: Chemical and Volume Control                                                                                                                                                                         |                                                                                       |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                       |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1 1/2" x 2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59380-00-0012	N/A	3PSV9225	1985	Replaced	Yes
1 1/2" x 2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59380-00-0007	N/A	Rebuild MO 94111667	1984	Replacement	Yes

7. Description of Work:

The relief valve in plant location 3PSV9225 was replaced due to seat leakage. The valve was replaced with a tested spare (Reference MO 94111667). The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2370 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/11/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 3/20/95 to 12/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 11, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                     |                                                                                               |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770              | Unit: 3<br>MO: 95032108000<br>Rspec: EREF-0022<br>P&ID: 40112BSO3 G-4<br>N-5: S3-1204-35, -21 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                              |                                                                                               |
| 3. Work Performed by: Southern California Edison Company                                                            | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                  |
| 4. Identification of System: Safety Injection and Shutdown Cooling                                                  |                                                                                               |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Cases: None</u> |                                                                                               |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>          |                                                                                               |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Y-Type Globe Valve	Kerotest	OW33-17	N/A	S31204MR208	1976	---	Yes
Disc	BW/IP Intl.	116	N/A	RSO 1826-94, SA479 316	1994	Replacement	Yes

7. Description of Work:

The valve was disassembled for cleaning and inspection due to valve leakage. The valve disc could not be reused and was replaced.

8. Tests Conducted: System Functional Pressure Test      Pressure: 95.5% Level      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement disc was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/3/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                      |                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                               | Unit: 3<br>MO: 95040076000 95090165000 95090476<br>FCN: F9473M<br>Rspec: 150-95R2,204-95R1,GEN-152<br>P&ID: 40112DSO3<br>N-5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                               |                                                                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                             | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                                            |
| 4. Identification of System: Main Steam                                                                                                                                                                                              |                                                                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
52 1/8" Rigid Strut	Lisega	S3-ST-580-H-002	N/A	S3ST580H002	N/A	Replaced	No
Mechanical Snubber, PSA 35-6	Pacific Scientific	13062	N/A	RSO 1099-91, 1801112-13	1991	Replacement	No
Extension Pipe	Kawasaki Steel	Heat 32168-01	N/A	RSO 1324-95, SA106 B, CR-2000-94	N/A	Replacement	No
Weld Adapter	Pacific Scientific	Heat N2535-A	N/A	RSO 2714-86, 1801547-01	N/A	Replacement	No
Load Pins (2)	Grinnell	Ht Code ZA	N/A	RSO 2229-85	N/A	Replacement	No

7. Description of Work:

The rigid strut was replaced with a mechanical snubber in accordance with the referenced FCNs in order to minimize vibration. MO 95040076 performed the installation of the new snubber, along with installation of a weld adapter, extension pipe and an end cap (reference weld record WR3-95-509). Both load pins were damaged and were replaced using MO 95040076. Support MOs 95090476 and 95090165, machined the load pins to the required dimensions before installation. A VT-3 examination of the support assembly was performed with satisfactory results.

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks The snubber, weld adapter and load pins were certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134. CR-2000-94 reconciles the replacement extension pipe which was certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/11/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/25/95 to 12/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 11, 1995

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                           |                                                                                       |
|----|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                 | Sheet 1 of 1<br>Unit: 3<br>CWO: 95040255001<br>95040255000                            |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                               | DCP: SG3/C8<br>Repair Spec: GEN-105 Rev. 1<br>P&ID: 40141AS03 (C-5)<br>N-5: S3-1201-3 |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128            | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A          |
| 4. | Identification of System: REACTOR COOLANT (1201)                                                          |                                                                                       |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'71 Addenda, Code Cases: None |                                                                                       |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda       |                                                                                       |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                             |                                                                                       |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1 1/2"-8N-2A Manway Studs (2)	Combustion Engineering	HT #40545 Trace Code #15346	N/A	SA540 Gr. B24 RSO #3522-90	NA	Replacement	No
1 1/2"-8N-2B Manway Stud Nuts (2)	Combustion Engineering	HT #11472 Trace Code #J-6765-1	N/A	SA193 Gr. B7 RSO #3440-85	N/A	Replacement	No

7. Description of Work: Replacement studs (2) and nuts (2) were installed on the secondary manway cover on the west side of steam generator S3-1301-ME-088. A VT-1 inspection was performed on the replacement studs/nuts.
8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
 Pressure: 2250 psia Temp: 512 °F (Primary Side)  
 Pressure: 985 psia Temp: N/A (Secondary Side)

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.



FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *W. J. Feibel* Supervising ASME Codes Engineer Date: 10/17 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/19/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*W. J. Thompson*  
Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Oct. 18, 1995

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company<br/>P.O. Box 450<br/>San Clemente, CA 92674-0128</p> <p>4. Identification of System: Fuel Transfer Tube (2150)</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None<br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3<br/>CWO: 95040276000<br/>DCP: 3-6864.00SN Rev. 0<br/>Repair Spec: 109-95 Rev. 0<br/>P&amp;ID: 40122AS03<br/>N1-A: S3-2150-1</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Fuel Transfer Tube	Bechtel	S3-2150-1	N/A	N/A	1982	Repaired	Yes

7. Description of Work:
- The primary objectives of DCP 3-6864.00SN Rev. 0 are to reduce outage critical path time during refueling activity, reduce the risk for extending critical path time and to provide a safer work environment. The existing tack welds were removed and the existing cable pan wear plate was shortened. NDE was performed on the removal areas. The new QC III sheave assembly was installed per Dwg. SO23-411-55-129-2 and the wear plate was welded and inspected per the WR-5As for welds A, B, C, D & E.
8. Tests Conducted: None.

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AJA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 8/29, 1995 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 8/29/95 to 8/29/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Inspector's Signature Commissions 1862 California (National Board, State, Province, and Endorsements)

Date August 29, 1995

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                           |                                                                                       |
|----|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                 | Sheet 1 of 1<br>Unit: 3<br>CWO: 95040277001<br>95040277000                            |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                               | DCP: SG3/C8<br>Repair Spec: GEN-105 Rev. 1<br>P&ID: 40141AS03 (C-5)<br>N-5: S3-1201-3 |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128            | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A          |
| 4. | Identification of System: REACTOR COOLANT (1201)                                                          |                                                                                       |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'71 Addenda, Code Cases: None |                                                                                       |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda       |                                                                                       |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                             |                                                                                       |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1½"-8N-2A Manway Stud (1)	Combustion Engineering	HT #40545 Trace Code #15346	N/A	SA540 Gr. B24 RSO #3522-90	NA	Replacement	No
1½"-8N-2B Manway Stud Nuts (2)	Combustion Engineering	HT #11472 Trace Code #J-6765-1	N/A	SA193 Gr. B7 RSO #3440-85	N/A	Replacement	No

7. Description of Work: Replacement studs (2) and nuts (2) were installed on the secondary manway cover on the west side of steam generator S3-1301-ME-089. A VT-1 inspection was performed on the replacement studs/nuts.
8. Tests Conducted: System Leakage  System Functional  System Inservice  Hydrostatic  Pneumatic  Other   
 Pressure: 2250 psia Temp: 512 °F (Primary Side)  
 Pressure: 985 psia Temp: N/A (Secondary Side)

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *Al McNeil* Supervising ASME Codes Engineer Date: 10/17 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 6/26/95 to 10/19/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Ch Thompson*  
Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Oct. 19, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                  |                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 95040293000<br>Rspec: 106-95<br>P&ID: 40124BSO3 G-3<br>N-5: S3-1208-5 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                      |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A         |
| 4. Identification of System: Chemical and Volume Control                                                                                                                                                                         |                                                                                      |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S75 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                      |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Discharge Accumulator	Greer Hydraulics	GHI-2983	N/A	S31208MW218	1978	---	Yes
Valve Stem	ABB Combustion Engineering	Heat 34962	N/A	RSO 0008-95, SA479 Gr. 304	N/A	Replacement	No

7. Description of Work:

The discharge pulsation dampener for charging pump S31208MP190 was disassembled for inspection. The bladder assembly was replaced. The assembly included the valve stem, which is a Code item.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2350 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 4/5/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, No Addenda, Code Cases: None</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 95040418000<br/>Rspec: 117-95, EREF-0179<br/>P&amp;ID: 40112CSO3<br/>N-5: S3-1204-11</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
2" Motor Operated Globe Valve	Target Rock	4	N/A	3HV9327	1977	---	Yes
Disc	Target Rock	37	N/A	RSO 0167-92, Part 203609-1	1992	Replacement	Yes

7. Description of Work:

The valve was disassembled for overhaul due to seat leakage. This required the removal of the body-to-bonnet seal weld. The valve disc was replaced and the body-to-bonnet joint was seal welded using weld record WR3-95-368. A final PT exam was performed on the completed weld with satisfactory results.

8. Tests Conducted: System Functional Pressure Test      Pressure: 975 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/7/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/13/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 8, 1995

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, CA 92674-0128
3. Work Performed by: Bechtel Construction Company  
P.O. Box 450  
San Clemente, CA 92674-0128

Sheet 1 of 1  
Unit: 3  
CWO: 95040859000  
DCP: ISI/C8  
Repair Spec: 140-95 Rev. 0  
P&ID: 40141A  
N-5: S3-1305-8

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Feedwater (1305)
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Pipe Spool	Pullman	N-8941	N/A	Spool #3-FW-189-006	1980	Repaired	Yes

7. Description of Work: ISI weld No. 03-045-360 (weld "BE") on line S3-1305-ML-189 was flush ground to facilitate an In-Service (IS) ultrasonic examination. (Reference: FCN F-9520M, UT Report #395-08PUT-043, MT Report #395-08IMT-021).
8. Tests Conducted: None

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al McFadden

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 10/13, 19 95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 5/30/95 to 10/16/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

CD Thompson  
Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Oct 16, 19 95

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit: 3  
CWO: 95040861000  
DCP: ISI/C8  
Repair Spec: 141-95 Rev. 0  
P&ID: 40141A  
N-5: S3-1305-7

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, CA 92674-0128

3. Work Performed by: Bechtel Construction Company  
P.O. Box 450  
San Clemente, CA 92674-0128

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Feedwater (1305)

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Pine Spool	Pullman	N-8940	N/A	Spool #3-FW-190-006	1978	Repaired	Yes

7. Description of Work: ISI weld No. 03-044-010 (weld "BD") on line S3-1305-ML-190 was flush ground to facilitate an In-Service (ISI) ultrasonic examination. (Reference: FCN 1-9521M, UT Report #395-08PUT-043, MT Report #395-08DMT-019).

8. Tests Conducted: None



FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/13, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors at the State or Province of California and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 5/30/95 to 10/16/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Oct 16, 19 95

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                            | Unit: 3<br>MO: 95050270000<br>Rspec: EREF-0035<br>P&ID: 40112ASO3 G-3<br>N-5: S3-1204-34 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                            |                                                                                          |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A             |
| 4. Identification of System: Safety Injection and Shutdown Cooling                                                                                                                                                                |                                                                                          |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                          |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
4" Globe Stop Check Valve	Anchor/Darling	2N772	N/A	S31204MU012	1977	---	Yes
Disc	Anchor/Darling	7	N/A	RSO 0795-95, Part 306678	1995	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection. The disc was replaced with a new one-piece disc as allowed by drawing 408-1-6-112.

8. Tests Conducted: System Functional Pressure Test      Pressure: 925 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturers Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: Al White Supervising ASME Codes Engineer Date: 11/21/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/24/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

CD Thompson Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                   |                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                            | Unit: 3<br>MO: 95051298001<br>Rspec: EREF-0391<br>P&ID: 40141ESO3 F-7<br>N-5: S3-1301-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                            |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System Main Steam                                                                                                                                                                                            |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Y-Type Globe Valve	Kerotest	AAE19-7	N/A	S31301MR795	1978	---	Yes
Disc	Kerotest	ADM29/AEE-8	N/A	RSO 6702-85, AMS5387 Stellite 6	1985	Replacement	Yes

7. Description of Work:

The valve was disassembled for cleaning and inspection. The valve disc could not be reused and was replaced.

8. Tests Conducted: System Functional Pressure Test      Pressure: 996 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement disc was certified to a higher code class, ASME III-1, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/26/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                  |                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 95051388000<br>Rspec: EREF-0367<br>P&ID: 40112DSO3 D-7<br>N-5: S3-1201-4 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System Safety Injection and Shutdown Cooling                                                                                                                                                                |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamp Yes/No
1"x1" Nozzle-Type Relief Valve	Crosby Valve & Gage	N60060-00-0002	N/A	3PSV9387	1977	Replaced	Yes
1"x1" Nozzle-Type Relief Valve	Crosby Valve & Gage	N60060-00-0003	N/A	RSO 1216-93	1993	Replacement	Yes
5/8"-11x36" All Thread	Nova Machine Products	Heat 8099572	N/A	RSO 0943-95, SA193 B7, CR-2001-93	N/A	Replacement	No

7. Description of Work:

The relief valve in plant position 3PSV9387 was replaced due to evidence of boric acid leakage. The inlet flange studs were also replaced. Using GEN-139, four inlet flange studs were cut to 4" lengths from all-thread material, with the required markings being transferred to the cut pieces. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 307 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement studs which were certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/7/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/13/95 to 12/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Nuclear Plant Sampling</p> | <p>Unit: 3<br/>MO: 95061657000<br/>FCN: F11069M<br/>Rspec: 157-95<br/>P&amp;ID: 40134DSO3<br/>N-5: S3-1212-19</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Piping), 1971 Edition, S'73 Addenda (Valve), Code Cases: None  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1" Diam. Piping	Bechtel	3-SS-004-AL	N/A	S31212ML004	---	Repaired	---
3/4" Y-Type Globe Valve	Kerotest	VH12-11	N/A	S31212MU008	1978	Permanently Deleted	Yes
3/4" SW Pipe Cap	Capitol Pipe & Steel Products	Heat BK67	N/A	RSO 1885-84, SA182 F304	N/A	Replacement	No

7. Description of Work:

The pipe spool 3-SS-004-AL in the sample system flush line was modified in accordance with FCNs F11069 and F11070 to permanently remove isolation valve S31212MU008 and cap the line. Installation of the socket weld pipe cap and NDE was performed in accordance with weld record WR3-95-469.

8. Tests Conducted: System Functional Pressure Test      Pres: 506 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site.)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair and replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/7/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/6/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                               | Unit: 3<br>MO: 95070703000 95090157000<br>Rspec: GEN-152 R2, GEN-150<br>P&ID: 40141ASO3<br>N-5: S3-1301-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                               |                                                                                                           |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                             | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                              |
| 4. Identification of System Main Steam                                                                                                                                                                                               |                                                                                                           |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                                           |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	11182	N/A	S3ST016H703	1980	Replaced	No
Mechanical Snubber PSA 1-4	Pacific Scientific	25763	N/A	RSO 1704-86, 1801102-05	1986	Replacement	No
Load Pin	Pacific Scientific	Heat N2917B	N/A	RSO 0072-92, CR- 3006-95	N/A	Replacement	No

7. Description of Work:

The mechanical snubber was found to have internal damage while working MO 95070703 which replaced the load pin. The snubber was replaced using MC 95090157. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement snubber was certified to a higher code class, ASME III-1-NF, as allowed by ASME III, paragraph NCA-2134. CR-3006-95 reconciles the replacement load pin which was certified to ASME III-1-NF, 1980 Edition, S'82 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/14/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/1/95 to 11/16/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1162 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 16, 1995





FORM NIS-2 (back)

9. Remarks CR-3006-95 reconciles the replacement load pin which was certified to ASME III-1-NF, 1980 Edition, S'82 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: M. McVillie Supervising ASME Codes Engineer Date: 10/19/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/1/95 to 10/20/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

W. Thompson Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 20, 1995



FORM NIS-2 (back)

9. Remarks CR-3006-95 reconciles the replacement load pin which was certified to III-1-NF, 1980 Edition, S'82 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 07/31/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                   | Unit: 3<br>MO: 95071200000<br>Rspec: 165-95 R1<br>P&ID: 40111ASO3 H-5<br>N-5: S3-1204-32 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                   |                                                                                          |
| 3. Work Performed by: Southern California Edison Company                                                                                                                 | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A             |
| 4. Identification of System: Safety Injection and Shutdown Cooling                                                                                                       |                                                                                          |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1-NE, 1974 Edition, S74 Addenda (Material), 1974 Edition W74 Addenda (Installation), Code Case: None</u> |                                                                                          |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>                                                               |                                                                                          |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1/2"x7/8"x1 3/8" Pipe Lugs (2)	Energy Steel	Heat 301045A	N/A	S3SI165H008, RSO 1240-95, SA240 Ty304	N/A	Replacement	No

7. Description of Work:

The piping immediately upstream of S31204MU152 was replaced during replacement of the valve using MO 93121777 and was documented on a separate NIS-2. The pipe lugs for support assembly S3SI165H008 were integrally welded to the removed pipe spool and could not be reused. Replacement pipe lugs were cut from plate material to the proper size and installed using MO 95071200 and weld record WR3-95-511.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/3/95 to 12/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 6, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                          | Unit: 3<br>MO: 95071226000<br>Rspec: EREF-0202<br>P&ID: 40112ASO3 E-6<br>N-5: S3-1204-21 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                          |                                                                                          |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                        | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A             |
| 4. Identification of System Safety Injection and Shutdown Cooling                                                                                                                                                               |                                                                                          |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Case: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                          |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1/2"x1/2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59371-00-0032	N/A	3PSV8156	1982	Replaced	Yes
1/2"x1/2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59371-00-0043	N/A	RSO 3171-92	1992	Replacement	Yes

7. Description of Work:

The relief valve in plant position 3PSV8156 was replaced due to improper operation during a recent IST. The removed valve was placed into the rebuild program.

8. Tests Conducted: System Functional Pressure Test      Pressure: 95% Level      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/6/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/30/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                 |                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                          | Unit: 3<br>MO: 95071272000<br>Rspec: 169-95, EREF-0250<br>P&ID: 40123ASO3 E-6<br>N-5: S3-1201-3-9 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                          |                                                                                                   |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                        | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                      |
| 4. Identification of System Reactor Coolant                                                                                                                                                                                     |                                                                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Case: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                                   |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
2" Y-Type Check Valve	Kerotest	ABR9-20	N/A	S31201MU021	1983	Replaced	Yes
Disc	Kerotest	AKF2-2	N/A	RSO 5866-85, Part 72615859	1985	Replacement	Yes
Cover (Bonnet)	Kerotest	AMM2-1	N/A	RSO 0437-86, SA479 316	N/A	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection due to seat leakage and operational difficulties. The body-to-bonnet seal weld was removed to allow replacement of the valve disc and bonnet. The body-to-bonnet joint was then seal-welded in accordance with weld record WR3-95-514. The final weld was PT examined with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
 Owner or Owner's Designee, Title

Date: 11/21/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/2/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section III

- |                                                                                                                                                                                                                                   |                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                            | Unit: 3<br>MO: 95071274000<br>Rspec: 170-95, EREF-0249<br>P&ID: 40123ASO3 F-7<br>N-5: S3-1201-3-3 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                            |                                                                                                   |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                      |
| 4. Identification of System: Reactor Coolant                                                                                                                                                                                      |                                                                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class I, 1971 Edition, S'73 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                                   |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
2" Y-Type Check Valve	Kerotest	MA2-9	N/A	S31201MU020	1980	---	Yes
Stem/Disc Assembly	Kerotest	AHG12-25	N/A	RSO 4426-85, 9911-55(1)-Z	1985	Replacement	Yes

7. Description of Work:

The valve was disassembled for rework in accordance with NCR 95070072, after failing closed during recent surveillance testing. This required the removal of the body-to-bonnet seal weld. The valve disc was replaced and the body-to-bonnet joint was seal welded using weld record WR3-95-515. A final PT exam was performed on the completed weld with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the ASME.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturers Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/8/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/2/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Inspector's Signature Commission 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 8, 1995





FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturers Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/5/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 7/24/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company  
 2244 Walnut Grove Avenue  
 Rosemead, California 91770  
 Unit: 3  
 MO: 95071396000  
 Rspec: 171-95  
 P&ID: 40130DSO3 B-7  
 N-5: S3-1201-14
2. Plant: San Onofre Nuclear Generating Station  
 San Clemente, California 92674-0128
3. Work Performed by: Southern California Edison Company  
 Type Code Symbol Stamp: N/A  
 Authorization No: N/A  
 Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S75 Addenda, Code Cases: None  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3-Valve Manifold	-----	Unknown	N/A	Upstream of 3PDT0121	---	Replaced	---
3-Valve Manifold	Gould, Inc.	13362	N/A	RSO 2073-84, SA182 F316, CR-3012-95	1977	Replacement	Yes

7. Description of Work:

The 3-valve manifold upstream of instrument 3PDT0121 was replaced due to external boric acid leakage. The existing tubing was reused.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2265 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks CR-3012-95 reconciles the replacement 3-valve manifold which was certified to ASME III-2, 1977 Edition, No Addenda.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/9/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/4/95 to 12/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions 1862

California

National Board, State, Province, and Endorsements

Date Dec. 11, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128
3. Work Performed by: Bechtel Construction Company  
P. O. Box 450  
San Clemente, CA 92674-0128

Unit: 3  
CWO: 95071689000  
Rspec: 172-95  
P&ID: 40111BSO3 E-5  
N-5: S3-1201-2

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S'74 Addenda, Code Cases: None  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Pipe Guide (P-89-2)	N/A	N/A	N/A	S3-RC-PLT-H-001	N/A	Repaired	No

7. Description of Work:

The 3/4" P-89-2 pipe guide on pipe support S3-RC-PLT-H-001 for the instrument nozzle and condensing pot for 3PT-0101-1 was removed to facilitate nozzle replacement in the pressurizer. After the completion of nozzle welding, the existing pipe guide was reinstalled per drawing S3-RC-PLT-H-001. A VT-3 examination was performed after installation.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the ALA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/18/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/2/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128
3. Work Performed by: Bechtel Construction Company  
P. O. Box 450  
San Clemente, CA 92674-0128

Unit: 3  
CWO: 95071698000  
Rspec: 174-95  
P&ID: 40111BSO3 F-5  
N-5: S3-1201-2  
Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S'74 Addenda, Code Cases: None  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Pipe Guide (P-89-2)	N/A	N/A	N/A	S3-RC-PLT-H-003	N/A	Repaired	No

7. Description of Work:

The 3/4" P-89-2 pipe guide on pipe support S3-RC-PLT-H-003 for the instrument nozzle and condensing pot for 3PT-0101-3 was removed to facilitate nozzle replacement in the pressurizer. After the completion of nozzle welding, it was reinstalled per FCN F11483M using the existing pipe guide, pipe support, and a new splice plate (non-ASME). A VT-3 examination was performed after installation.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/18/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/2/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                               | Unit: 3<br>MO: 95071738000<br>Rspec: GEN-150<br>P&ID: 40141ASO3<br>N-5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                               |                                                                                   |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                             | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A      |
| 4. Identification of System Main Steam                                                                                                                                                                                               |                                                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                   |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	8806	N/A	S3ST014H756	1979	Replaced	No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	38641	N/A	RSO 2179-91, 1801104-05	1991	Replacement	No

7. Description of Work:

The mechanical snubber was replaced as a preventative maintenance action. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement snubber was certified to a higher code class, ASME III-1-NF, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/6/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                  | Unit: 3<br>MO: 95071739000<br>Rspec: GEN-150<br>P&ID: 40141DSO3<br>N-5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                  |                                                                                   |
| 3. Work Performed by: Southern California Edison Company                                                                | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A      |
| 4. Identification of System: Main Steam                                                                                 |                                                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-7</u> |                                                                                   |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>              |                                                                                   |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	13901	N/A	S3ST610H002	1980	Replaced	No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	38657	N/A	RSO 2181-91, 1801104-05	1991	Replacement	No

7. Description of Work:

The mechanical snubber was replaced as a preventative maintenance action. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement snubber was certified to a higher code class, ASME III-1-NF, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al. Meidel Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/4/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

W. Thompson  
Inspector's Signature

Commissions 1862

California

National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System Nuclear Plant Sampling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None</u></p> <p style="padding-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 95080046000</p> <p>Rspec: GEN-150</p> <p>P&amp;ID: 40111BSO3 A-4</p> <p>N-5: S3-1212-6</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4-4	Pacific Scientific	38638	N/A	S3SS042H010	1991	Replaced	No
Mechanical Snubber PSA 1/4-4	Pacific Scientific	38706	N/A	RSO 1081-92, 1801104-05	1992	Replacement	No

7. Description of Work:

The mechanical snubber was replaced as a preventative maintenance action. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks The replacement snubber was certified to a higher code class, ASME III-1-NF, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/16/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/4/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995



FORM NIS-2 (back)

9. Remarks CR-3006-95 reconciles the replacement load pin which was certified to ASME III-1, 1980 Edition, S'82 Addenda.

(Applicable Manufacturers Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/14/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/5/95 to 11/16/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 16, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Welding Services Inc.<br/>Southern California Edison Company</p> <p>4. Identification of System Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S'71 Addenda, Code Cases: N474-1</u></p> | <p>Unit: 3<br/>MO: 95080387000, WSI Travelers<br/>FCN: F11444M-F11459M, F11465M-F11468M<br/>Rspec: N/A<br/>P&amp;ID: 40111ASO3<br/>N-5: S3-1201-2</p> <p>Type Code Symbol Stamp: NR<br/>Authorization No: 69<br/>Expiration Date: 11/7/95</p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Add and 1992 Ed. No Addenda</u></p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Pressurizer Vessel	Combustion Engineering	CE70603	21496	S31201ME087	1977	Repaired	Yes
Steam Space Instrument Nozzle @ 0 Deg.	Welding Services Inc.	35060004-1	N/A	RSO 1425-95, SB166 NO6690	1995	Replacement	Yes
Steam Space Instrument Nozzle @ 180 Deg.	Welding Services Inc.	35060004-2	N/A	RSO 1425-95, SB166 NO6690	1995	Replacement	Yes
Steam Space Instrument Nozzle @ 195 Deg.	Welding Services Inc.	35060004-3	N/A	RSO 1425-95, SB166 NO6690	1995	Replacement	Yes
Steam Space Instrument Nozzle @ 345 Deg.	Welding Services Inc.	35060004-4	N/A	RSO 1425-95, SB166 NO6690	1995	Replacement	Yes

7. Description of Work:

Existing ENiCrFe-3 weld butter was machined from J-weld preps in all four locations and replaced with Inconel 52 using the temperbead welding technique in accordance with ASME XI, IWA-4500, 1992 Edition, No Addenda. New nozzles were then welded in using Inconel 52 weld filler. All work was performed by Welding Services, Inc. under their National Board "NR" Program and is documented on the attached NR-1 Data Report. The VT-2 and system pressure test was performed in accordance with ASME Section XI, 1989 Edition, No Addenda by SCE.

8. Tests Conducted: System Leakage Pressure Test      Pres: 2250 psia      Temp: 430 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AJA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair and replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
 Owner or Owner's Designee, Title

Date: 11/21/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/2/95 to 11/27/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

[Signature]

Commissions

1862

California

National Board, State, Province, and Endorsements

Date Nov. 27, 1995

FORM NR-1 REPORT OF REPAIR  MODIFICATION  OR INSTALLATION OF REPLACEMENT(S)   
 TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Welding Services Incorporated 35060  
(name) (repair organization's P. O. no. job. no., etc.)

2225 Skyland Court, Norcross, Georgia 30071  
(address)

2. Owner Southern California Edison Company  
(name)  
San Clemente, California 92674  
(address)

3. Name, address and identification of nuclear power plant San Onofre Nuclear Generating Station Unit 3  
San Clemente, California 92674

4. System Reactor coolant system (1201)

5. a: Component repaired, modified or replaced Pressurizer Vessel (S31201MF087)  
 b: Name of manufacturer Combustion Engineering, Inc.  
 c: Identifying nos. CE 70603 21496 N/A N/A 1977  
(mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) (year built)  
 d: Construction Code Sect. III '71 S'71 N/A 1  
(edition) (addenda) (Code Case(s)) (Code Class)

6. Section XI 1989 No N/A  
(edition) (addenda) (Code Case(s))

7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1989 No N/A  
Temperbead welding per 1992 edition, No add (see pg 2)  
(edition) (addenda) (Code Case(s))

8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: III '71 S'71 N474-1  
(Code) (edition) (addenda) (Code Case(s))

9. Design responsibilities Southern California Edison Company

10. Tests conducted: hydrostatic  pneumatic  design pressure  pressure \_\_\_\_\_ psi None (to be performed by owner)

11. Description of work Replacement of (4) each vapor space nozzles and complete removal of  
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)  
F43 butter in vessel J-weld preps. Butter was replaced using the temperbead  
welding technique.

12. Remarks: Replacement nozzles supplied by owner. See supplemental page 2 for replacement  
material data and implementing documents.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.

Certificate of Authorization no. 69 to use the "NR" stamp expires 11/7, 1995.

Date 9-19, 1995. Signed Welding Services Incorporated Ronald C. Caggen Sr. QA MANAGER  
(repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of California and employed by Arkwright Mutual Ins. Co. (Factory Mutual\*\* of Norwood\*) have inspected the repair, modification or replacement describe in this report on September 14 1995 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Sept. 14, 1995. Signed [Signature] Commissions NB8024, CA1862 'N', 'I'  
(authorized inspector) (Nat'l. Bd. No. (including endorsements) state or province and number)



SUPPLEMENT TO NR-1 DATA REPORT

## REPAIR REFERENCE DATA

Nozzle Location	WSI Travelers		Replacement Nozzle	NCRs
	Temperbead	Nozzle Replacement		
0°	35060050	35060007	S/N 35060004-1 (RSO-1425-95) SB-166-N06690 FCN F-11553M	(WSI) 95-018 (WSI) 95-019 (WSI) 95-020 (SCE) 95080185 (SCE) 95080227
180°	35060051	35060006	S/N 35060004-2 (RSO-1425-95) SB-166-N06690 FCN F-11553M	(WSI) 95-016 (WSI) 95-020 (SCE) 95080117 (SCE) 95080227
195°	35060052	35060001	S/N 35060004-3 (RSO-1425-95) SB-166-N06690 FCN F-11553M	(WSI) 95-015 (WSI) 95-017 (WSI) 95-020 (SCE) 95080117 (SCE) 95080119 (SCE) 95080227
345°	35060053	35060008	S/N 35060004-4 (RSO-1425-95) SB-166-N06690 FCN F-11553M	(WSI) 95-019 (WSI) 95-021 (SCE) 95080117 (SCE) 95080185 (SCE) 95080228

Notes

1. Temperbead weld repairs were performed on the nozzle J-preps of the vessel to replace the existing ENiCrFe-3 F43 butter with INCONEL 52 weld material. ASME Section XI, IWA-4500, 1992 edition, no addenda was used for the temperbead welding.
2. The preheat and postweld heating for the temperbead welding was performed by Cooperheat using their procedure #81296-CHP-021-001.
3. INCONEL 52 was also used for the vessel to nozzle installation weld.

WSI Representative

Paul D. Ceylan 9-14-95

ANII

Anderson

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Welding Services Inc.<br/>Southern California Edison Company</p> <p>4. Identification of System Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Edition, S71 Addenda, Code Cases: None</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda, Code Case N416-1</u></p> | <p>Unit: 3</p> <p>MO: 95080387000, WSI Travelers</p> <p>Rspec: N/A</p> <p>P&amp;ID: 40111ASO3</p> <p>N-5: S3-1201-3-7</p> <p>Type Code Symbol Stamp: NR</p> <p>Authorization No: 69</p> <p>Expiration Date: 11/7/95</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Pressurizer Instrument Piping @ 0 Deg.	Bechtel	N/A	N/A	S31201ML312	N/A	Replaced	No
Pressurizer Instrument Piping @ 180 Deg.	Bechtel	N/A	N/A	S31201ML311	N/A	Replaced	No
Pressurizer Instrument Piping @ 195 Deg.	Bechtel	N/A	N/A	S31201ML313	N/A	Replaced	No
Pressurizer Instrument Piping @ 345 Deg.	Bechtel	N/A	N/A	S31201ML314	N/A	Replaced	No

7. Description of Work:

Following replacement of all four Steam Space Instrument Nozzles, the downstream piping was reinstalled. The work was performed by Welding Services Inc. under their National Board "NR" Program and is documented on the attached NR-1 Data Report. Replacement materials used are documented on the NR-1.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 431 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturers Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair and replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
 Owner or Owner's Designee, Title

Date: 11/21/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/15/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

[Signature]

Commissions 1862 California  
 National Board, State, Province, and Endorsements

Date Nov. 21, 1995

FORM NR-1 REPORT OF REPAIR  MODIFICATION  OR INSTALLATION OF REPLACEMENT(S)   
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Welding Services Incorporated 35060  
(name) (repair organization's P. O. no., job no., etc.)  
2225 Skyland Court, Norcross, Georgia 30071  
(address)

2. Owner Southern California Edison Company  
(name)  
San Clemente, California 92674  
(address)

3. Name, address and identification of nuclear power plant San Onofre Nuclear Generating Station Unit 3  
San Clemente, California 92674

4. System Reactor Coolant System (1201)

5. a: Component repaired, modified or replaced Piping (See Supplement Sheet)  
 b: Name of manufacturer N/A  
 c: Identifying nos. N/A N/A N/A N/A N/A  
(mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) (year built)  
 d: Construction Code 1974 S1974 N/A 1 and 2  
(edition) (addenda) (Code Case(s)) (Code Class)

6. Section XI 1989 No N/A  
(edition) (addenda) (Code Case(s))

7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1989 No N/A  
(edition) (addenda) (Code Case(s))

8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: III '74 S'74 N/A  
(Code) (edition) (addenda) (Code Case(s))  
 Except as noted on supplementary pages.

9. Design responsibilities Southern California Edison Company

10. Tests conducted: hydrostatic  pneumatic  design pressure  pressure \_\_\_\_\_ psi None (to be performed by owner)

11. Description of work Piping subassemblies were reattached to the pressurizer instrument  
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)  
nozzles after replacement of same. Some items on the piping subassemblies  
(pipe fittings and NPT stamped flex hoses) were replaced prior to installation.

12. Remarks: ER308L Filler material supplied by owner. All replacement items supplied by  
owner. See supplement page 2 for replacement material data and implementing.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.

Certificate of Authorization no. 69 to use the "NR" stamp expires 11/7, 1995.

Date 9/3 1995. Signed Welding Services, Incorporated Ronald D. Agner Site QA MANAGER  
(repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. \* of NORWOOD, MA have inspected the repair, modification or replacement describe in this report on September 13, 1995 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Sept. 13 1995. Signed Edward D. Blanton \* FACTORY MUTUAL ENGINEERING ASSOC  
(Authorized Inspector) (Nat'l. Bd. No. (including endorsements) state or province and number)

# SUPPLEMENT TO NR-1 DATA REPORT

## REPAIR REFERENCE DATA

WSI Traveler	Vessel Nozzle	System Line Number	Replacement Materials
35060019	0°	S31201ML312	2 X 3/4, Eccen BW Red, sch 160, SA403-WP316, RSO-1285-95, ht# 227XNA, Code Class 1
			Flexhose (NPT), SA479-304/SB446-N06625, RSO-1049-93, S/N 004, Code Class 2
35060018	180°	S31201ML311	2 X 3/4, Eccen BW Red, sch 160, SA403-WP316, RSO-1285-95, ht# 227XNA, Code Class 1
			Flexhose (NPT), SA479-304/SB446-N06625, RSO-1456-93, S/N 009, Code Class 2
35060005	195°	S31201ML313	2 X 3/4, Eccen BW Red, sch 160, SA403-WP316, RSO-1285-95, ht# 227XNA, Code Class 1
			Flexhose (NPT), SA479-304/SE446-N06625, RSO-1049-93, S/N 006, Code Class 2
35060017	345°	S31201ML314	2 X 3/4, Eccen BW Red, sch 160, SA403-WP316, RSO-1285-95, ht# 227XNA, Code Class 1
			Flexhose (NPT), SA479-304/SB446-N06625, RSO-1049-93, S/N 005, Code Class 2
			3/4 6000# SW coupling, SA403-WP316, RSO 0731-93, heat code EPM, Code Class 2

### NOTES

1. At the Owner's request, the NDE for the 2" buttwelds was performed in accordance with ASME III, NB-5000, 1992 edition, No addenda.

WSI Representative: Thomas D. Ceyzer 9-13-95 SITE QA MANAGER

ANII: Edward J. Gaston 9/13/95

P\_wrksup.NR1

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                  |                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                           | Unit: 3<br>MO: 95080440000<br>Rspec: 185-95, GEN-139 R1<br>P&ID: 40130BSO3 G-4<br>N-5: S3-1201-14 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                           |                                                                                                   |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                         | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                      |
| 4. Identification of System Reactor Coolant                                                                                                                                                                                      |                                                                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                                   |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Piping	Bechtel	---	N/A	S31201ML156	---	---	---
3/4"-10 Heavy Hex Nuts (8)	Vitco, Inc.	Heat 108	N/A	RSO 0572-95, SA194 2H	N/A	Replacement	No
3/4"-10-36" All Thread	Cardinal Industrial Products	Ht Code H6	N/A	RSO 0824-93, SA193 B7	N/A	Replacement	No

7. Description of Work:

Due to boric acid leakage at the flanged connection directly below 3P004, the flange bolting was replaced. Four studs were cut to 4 1/2" lengths from all-thread material in accordance with GEN-139, with the required markings being transferred to the cut pieces.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2250 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/7/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/19/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Containment Spray</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None</u><br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 95080452000<br/>Rspec: 183-95 R1, GEN-139 R1<br/>P&amp;ID: 401114SO3<br/>N-5: S3-1206-1</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
7/8"-9x36" All Thread (3 each)	Nova Machine Products	Heat 88724	N/A	RSO 0077-95, SA193 B7	N/A	Replacement	No
7/8"-9 Heavy Hex Nuts (24 each)	Cardinal Industrial Products	Ht Code H2	N/A	RSO 0751-93, SA194 2H	N/A	Replacement	No

7. Description of Work:

The flange bolting at flow element 3FE0348 did not have the proper thread engagement and was replaced. Twelve studs were cut to 6 3/4" lengths from all-thread material in accordance with GEN-139, with the required markings being transferred to the cut pieces.

8. Tests Conducted: System Functional Pressure Test      Pressure: 494 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the all-thread which was certified to ASME III-2, 1989 Edition, No Addenda.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/8/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/8/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date: Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                        |                                                                                                               |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770 | Unit: 3<br>MO: 95080876000<br>FCN: F11527M<br>Rspec: 190-95, GEN-139<br>P&ID: 40123BSO3 C-6<br>N-5: S3-1208-4 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                 |                                                                                                               |
| 3. Work Performed by: Southern California Edison Company                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A                                  |
| 4. Identification of System: Chemical and Volume Control                                               |                                                                                                               |

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Letdown Heat Exchanger	Ametec Inc.	78828	10783	S31208ME062	1977	---	Yes
1"-8 Heavy Hex Nuts (28)	Cardinal Industrial Products	Ht Code E1	N/A	RSO 2366-92, SA194 2H, CR-2001-93	N/A	Replacement	No
1"-8 Heavy Hex Nuts (17)	Vitco Nuclear Products	Heat 6019432	N/A	RSO 3049-93, SA194 2H	N/A	Replacement	No
1"-8 Heavy Hex Nuts (11)	Cardinal Industrial Products	Ht Code E1	N/A	RSO 1517-93, SA194 2H, CR-2001-93	N/A	Replacement	No
1"-8x36" All Thread (5)	Nova Machine Products	Heat 8867312, Lot 34170009	N/A	RSO 2276-93, SA193 B7, CR-2001-93	N/A	Replacement	No
1"-8x36" All Thread (3)	Nova Machine Products	8090323	N/A	RSO 2064-93, SA193 B7, CR-2001-93	N/A	Replacement	No
1"-8x36" All Thread (2)	Cardinal Industrial Products	Ht Code G-4	N/A	RSO 1138-93, SA193 B7, CR-2001-93	N/A	Replacement	No

7. Description of Work:

The letdown heat exchanger manway cover studs and nuts were replaced in accordance with FCN F11527M. This allowed the use of non-nickle plated bolting material. Twenty-eight studs were cut to 8 1/2" lengths from all-thread material in accordance with GEN-139, with the required markings being transferred to the cut pieces.

8. Tests Conducted: System Functional Pressure Test Pres: 316 psig Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks CR-2001-93 reconciles the replacement studs and nuts which were certified to ASME III-2, 1974 Edition, S'74 Addenda.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
 Owner or Owner's Designee, Title

Date: 12/8/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/25/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

[Signature]

Commissions

1862

California

National Board, State, Province, and Endorsements

Date

Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                     |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                              | Unit: 3<br>MO: 95080898000<br>Rspec: GEN-150<br>P&ID: 40113ASO3<br>N-5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                              |                                                                                   |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                            | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A      |
| 4. Identification of System Safety Injection and Shutdown Cooling                                                                                                                                                                   |                                                                                   |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                   |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	15553	N/A	S3SI063H712	1980	Replaced	No
Mechanical Snubber PSA 1/4 - 4	Pacific Scientific	38683	N/A	RSO 0522-92, 1801104-05	1992	Replacement	No

7. Description of Work:

The mechanical snubber was replaced as a preventative maintenance action. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/20/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/14/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                     |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                              | Unit: 3<br>MO: 95081076000<br>Rspec: GEN-150<br>P&ID: 40112CSO3<br>N-5: S3-1204-32 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                              |                                                                                    |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                            | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A       |
| 4. Identification of System Safety Injection and Shutdown Cooling                                                                                                                                                                   |                                                                                    |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                    |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	3118	N/A	S3SI165H006	1978	Replaced	Yes
Mechanical Snubber PSA 1-4	Pacific Scientific	25766	N/A	RSO 1704-86, 1801102-05	1986	Replacement	No

7. Description of Work:

The mechanical snubber was replaced as a preventative maintenance action. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 08/16/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company<br/>Welding Services, Inc.</p> <p>4. Identification of System: Reactor Coolant (1201)</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S72 Addenda, Code Case: N474-1<br/>ASME Section III, Class 1, 1974 Edition, S74 Addenda, Code Case: None</p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p>Sheet 1 of 1</p> <p>Unit: 3</p> <p>MO: 95081091, WSI Travelers</p> <p>RS: 194-95</p> <p>P&amp;ID: 40111ASO3 E-3/E-4</p> <p>N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: See Block 7</p> <p>Authorization No: See Block 7</p> <p>Expiration Date: See Block 7</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Bar Stock for RTD Nozzle	ABB-Combustion Engineering	Ht Code J-9054	N/A	RSO 1357-95, SB166 NO6690	N/A	Replacement	No
RTD Thermowell	Combustion Engineering	Heat NX9912	N/A	RSO 2-P-2149-83, SB166 NO668, Part 89-287-1	N/A	Replacement	No
PDT Nozzle	Welding Services, Inc.	35060010-2	N/A	RSO 1336-95, SB166 NO6690, SA479 316L	N/A	Replacement	Yes

7. Description of Work:

Work Operation	Initiating Document	Implementing Document	Governing Code Program
RTD Nozzle, 3TE-0122-1			
Replacement RTD nozzle fabricated by SCE Maintenance	SO23-923-19, DCN #3, Repair Spec 194-95	ASME MO 95081091	SCE ASME Section XI R/R Program
RTD nozzle and new thermowell (both supplied by SCE), installed by Welding Services Inc.	FCN F11542M	WSI Work Traveler 35060015; CWO 95080130 (non-ASME ref. only)	WSI National Board "NR" program, Certificate of Authorization No. 69, expires 11/7/95
PDT Nozzle, 3PDT-0979-4			
Replacement PDT nozzle fabricated off-site by Welding Services Inc.	FCN F11465M	SCE PO 6M275007	WSI NPT Certificate of Authorization No. N-2873, expires 11/13/95
PDT nozzle installed by Welding Services Inc.	FCN F11465M	WSI Work Traveler 35060016; CWO 95080128 (non-ASME ref. only)	WSI National Board Repair program, Certificate of Authorization No. 69, expires 11/7/95

8. Tests Conducted: System Leakage Pressure Test Pressure: 2250 psig Temp: 430° F

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A      Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer      Date: 11/21, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/15/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]      Commissions 1802      California  
Inspector's Signature      (National Board, State, Province, and Endorsements)

Date Nov. 21, 1995

FORM NR-1 REPORT OF REPAIR  MODIFICATION  OR INSTALLATION OF REPLACEMENT(S)   
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Sheet 1 of 2

Work performed by Welding Services, Inc. 35060  
(name) (repair organization's P. O. no. job. no., etc.)  
2225 Skyland Court, Norcross, Georgia 30071  
(address)

2. Owner Southern California Edison Co.  
(name)  
San Clemente, California 92672  
(address)

3. Name, address and identification of nuclear power plant San Onofre Nuclear Generating Station Unit 3  
San Clemente, California 92672

4. System RCS Piping (line no. S3-1201-ML-002)

5. a: Component repaired, modified or replaced Instrument Nozzle (3TE-0122-1)  
 b: Name of manufacturer Combustion Engineering  
 c: Identifying nos. 503-03 N/A N/A N/A 1977  
(mfr.'s serial no.) (Natl. Bd. No.) (jurisdictional no.) (other) (year built)  
 d: Construction Code Sect. III 71 S '72 N/A 1  
(edition) (addenda) (Code Case(s)) (Code Class)

6. Section XI N/A N/A N/A  
(edition) (addenda) (Code Case(s))

7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1989 No N/A  
(edition) (addenda) (Code Case(s))

8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: See Supplement Sheet N/A  
(Code) (edition) (addenda) (Code Case(s))

9. Design responsibilities Southern California Edison Company

10. Tests conducted: hydrostatic  pneumatic  design pressure  pressure psi See Remarks

Description of work Replace RTD Nozzle and Thermowell per WSI Traveler  
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)  
35060015 Rev. 0 & Rev. 1 and SCE CWO 95080130000. This report consists of (2)  
two sheets.

12. Remarks: Pressure test to be performed by owner.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.  
 Certificate of Authorization no. 69 to use the "NR" stamp expires 11-7, 1995.  
 Date 9-11 1995. Signed Welding Services Incorporated Ronald J. Ceggen S.T.C. QA MANAGER  
(repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION



I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY \* of WORWOOD, MA have inspected the repair, modification or replacement describe in this report on 9/15, 1995 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Sept. 15, 1995. Signed Charles D. Thompson Commissions CA 1862, NB 8024 "N" "I"  
(Authorized Inspector) (Natl. Bd. No. (including endorsements) state or province and number)



SUPPLEMENT TO NR-1 DATA REPORT

## WELD IDENTIFIER CROSS REFERENCE

Plant Tag No.	SCR Document	WSI Traveler	Description & Code, Class, Ed/Add	WSI Weld I.D.	*SCR Weld I.D.
3PDT0979-4	FCN F-11465M	35060016	3/4 pipe to nozzle socketweld; III-1, '74 S'74	FW-R-004	
			nozzle to RCS Loop J-groove fillet; III-1, '71, S'72	FW-R-005	

\*Per SCE document FCN F-11468M

Notes

1. Weld areas for WSI Welds FW-R-002 and FW-R-005 were preheated to 200°F minimum by Cooperheat using their procedure #81296-CHP-021-002. Thermocouples were attached to the RCS Loop Pipe by Capacitor Discharge Welding. The thermocouples were removed, attachment areas ground flush and PT examined. Reference WSI Inspection Reports SCE-95-037 and WSI-NDE-95-011.
2. The replacement nozzle for 3PDT-0979-4 was fabricated by WSI under their ASME III N-Certificate and NPT stamped. The nozzle serial number is 35060010-2. SCE receipt inspection of the nozzle is documented on RSO-1336-95.

WSI Representative: Richard Rogers 9-11-95

ANII: Richard Rogers 9/11/95

FORM NR-1 REPORT OF REPAIR  MODIFICATION  OR INSTALLATION OF REPLACEMENT(S)   
 TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Sheet 1 of 2

Work performed by Welding Services, Inc. 35060  
(name) (repair organization's P. O. no. job. no., etc.)

2225 Skyland Court, Norcross, Georgia 30071  
(address)

2. Owner Southern California Edison Company  
(name)  
San Clemente, California 92674  
(address)

3. Name, address and identification of nuclear power plant San Onofre Nuclear Generating Station Unit 3  
San Clemente, California 92674

4. System RCS Piping (line no. S3-1201-ML-002)

5. a: Component repaired, modified or replaced Instrument Nozzle (3PDT-0979-4)  
 b: Name of manufacturer Combustion Engr., Inc.  
 c: Identifying nos. 503-03 N/A N/A N/A 1977  
(mt. 's serial no.) (Nat'l Bd. No.) (jurisdictional no.) (other) (year built)  
 d: Construction Code Sect. III '71 S '72 N/A 1  
(edition) (addenda) (Code Case(s)) (Code Class)

5. Section XI N/A N/A N/A  
(edition) (addenda) (Code Case(s))

7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1989 No N/A  
(edition) (addenda) (Code Case(s))

8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: See Supplement Sheet N/A  
(Code) (edition) (addenda) (Code Case(s))

9. Design responsibilities Southern California Edison Company

10. Tests conducted: hydrostatic  pneumatic  design pressure  pressure psi See Remarks

Description of work Replace PDT Nozzle per WSI Traveler 35060016 Rev. 0  
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)  
and SCE CWO 95080128000. This report consists of (2) two sheets.

12. Remarks: Pressure test to be performed by owner.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.

Certificate of Authorization no. 69 to use the "NR" stamp expires 11-7, 1995.

Date 9-11-95 Signed Welding Services Incorporated Ronald J. Began SITE QA MANAGER  
(repair organization) (authorized representative) (title)



CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INSURANCE \* of ROXWOOD MA have inspected the repair, modification or replacement describe in this report on SEPT 10, 1995 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Signed Sept 11, 1995 Signed Howard J. Gaston \* FACTORY MUTUAL SYSTEM  
(Authorized Inspector) Commissions CA 1574 "N" "I"  
(Nat'l Bd. No. (including endorsements) state or province and number)

SUPPLEMENT TO NR-1 DATA REPORT

## WELD IDENTIFIER CROSS REFERENCE

Plant Tag No.	SCR Document	WSI Traveler	Description & Code, Class, Ed/Add	WSI Weld I.D.	*SCE Weld I.D.
3TE0122-1	FCN F-11542	35060015	thermowell to nozzle socketweld; III-1, '74, S'74	FW-R-003	
			nozzle to RCS Loop J-groove + fillet; III-1, '71, S'72	FW-R-002	

\*Per SCE document FCN F-11468M

Notes

1. Weld areas for WSI Welds FW-R-002 and FW-R-005 were preheated to 200°F minimum by Cooperheat using their procedure #81296-CHP-021-002. Thermocouples were attached to the RCS Loop Pipe by Capacitor Discharge Welding. The thermocouples were removed, attachment areas ground flush and PT examined. Reference WSI Inspection Reports SCE-95-037 and WSI-NDE-95-011.

2. The replacement nozzle for 3TE-0122-1 was fabricated at the San Onofre site by SCE under SCE's ASME Section XI Program (Maintenance Order 95081091) and provided to WSI for installation. The nozzle material was SB-166 alloy N06690, heat number NX-8581HK1.

WSI Representative - Paul D. Cezzar 9-11-95ANII - Charles D. Thompson

RCS\_SUP.NR1

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Unit: 3  
MO: 95081112000  
Rspec: GEN-150  
P&ID: 40112CSO3  
N-5: S3-1204-13

2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A

4. Identification of System Safety Injection and Shutdown Cooling

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2 - 2 1/2	Pacific Scientific	10700	N/A	S3SI087H021	1980	Replaced	No
Mechanical Snubber PSA 1/2 - 2 1/2	Pacific Scientific	20701	N/A	RSO 2192-92, 1801104-07	1992	Replacement	No

7. Description of Work:

The mechanical snubber was replaced as a preventative maintenance action. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks The replacement snubber was certified to ASME III-1-NF as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/20/95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/17/95 to 10/23/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Condensate</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3<br/>MO: 95081331000<br/>Rspec: GEN-150<br/>P&amp;ID: 40141ASO3<br/>N-5: S3-1305-8</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	17971	N/A	S3FW189H010T	1991	Replaced	No
Mechanical Snubber PSA 10-6	Pacific Scientific	17962	N/A	RSO 1352-91, 1801103-07	1991	Replacement	No

7. Description of Work:

The mechanical snubber was replaced in accordance with NCR 95080163 after failing functional testing. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in. (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks The replacement snubber was certified to a higher code class, ASME III-1-NF, as allowed by ASME III, paragraph NCA-2134.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
 Owner or Owner's Designee, Title

Date: 7/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/21/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 18, 1995

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                              |                                                                              |
|----|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                    | Sheet 1 of 1<br>Unit: 3<br>CWO: 95081483000<br>DCP: 3-343.CE                 |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                                  | Repair Spec: 200-95 REV. 0<br>P&ID: 40111AS03<br>N-5: S3-1201-3              |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. | Identification of System: Reactor Coolant (1201)                                                             |                                                                              |
| 5. | (a) Applicable Construction Code: ASME Section III, Class NF-1, 1974 Edition, S'75 Addenda, Code Cases: None |                                                                              |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda          |                                                                              |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                                |                                                                              |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Snubber	Paul-Munroe Hydraulics	PD16154-261	N/A	S3-RC-P01-H-001	1978	Repaired	Yes

7. Description of Work Added retaining plates (QC III) to prevent upward movement of clevis pins for the RCP motor snubbers. To attach the retainer plate, a hole had to be drilled in the clevis which is ASME NF-1. (Reference: S023-922-191 FIDCN M-10180 & S023-922-134 FIDCN M-10182 and S3-1201-MP-001)
8. Tests Conducted: None

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 9/29, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/29/95 to 9/29/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Sept 29, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

- |                                                                                                                                                                                                                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                                                                                                                                                                               | Unit: 3<br>MO: 95081597000<br>Rspec: 198-95<br>P&ID: 40141ASO3 D-6<br>N-5: S3-1301-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                                                                                                                                                                               |                                                                                      |
| 3. Work Performed by: Southern California Edison Company                                                                                                                                                                                                                             | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A         |
| 4. Identification of System Main Steam                                                                                                                                                                                                                                               |                                                                                      |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S'73 Addenda (Valve), 1974 Edition, S'74 Addenda (Installation), Code Cases: None</u><br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u> |                                                                                      |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
1" Y-Type Globe Valve	Kerotest	SY38-25	N/A	S31301MU597	1976	Replaced	Yes
1" Y-Type Globe Valve	Kerotest	PAB37-20	N/A	RSO 2-P-2783-83		Replacement	Yes

7. Description of Work:

The valve was replaced as a result of excessive machining which had been performed on the valve seat (Ref. MO 95071408). Installation of the new valve was performed in accordance with weld record WR3-95-575.

8. Tests Conducted: System Functional Pressure Test      Pressure: 985 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
 Owner or Owner's Designee, Title

Date: 11/21/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/26/95 to 11/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Nov. 21, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, California 91770  
Unit: 3  
MO: 95081602000  
Rspec: 201-95  
P&ID: 40111ASO3  
N-5: S3-1201-3
2. Plant: San Onofre Nuclear Generating Station  
San Clemente, California 92674-0128
3. Work Performed by: Southern California Edison Company  
Type Code Symbol Stamp: N/A  
Authorization No: N/A  
Expiration Date: N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S75 Addenda, Code Cases: None  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

## 6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
RCP Hydraulic Snubber	Paul Munroe Hydraulics	PD16154-260	N/A	S3RCP02H001	1978	Repaired	Yes

## 7. Description of Work:

During installation of the new motor for RCP S31201MP002, an interference was noted at the snubber-to-motor housing connection. The rod pivot was found to have two lugs (not identified on drawing SO23-922-129) which prevented installation. The lugs were removed by machining and grinding.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 10/17/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 8/25/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 18, 1995

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                              |                                                                              |
|----|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                    | Sheet 1 of 1<br>Unit: 3<br>CWO: 95081626000<br>DCP: 3-343.CE                 |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                                  | Repair Spec: 200-95 REV. 0<br>P&ID: 40111AS03<br>N-5: S3-1201-3              |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. | Identification of System: Reactor Coolant (1201)                                                             |                                                                              |
| 5. | (a) Applicable Construction Code: ASME Section III, Class NF-1, 1974 Edition, S'75 Addenda, Code Cases: None |                                                                              |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda          |                                                                              |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                                |                                                                              |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Snubber	Paul-Munroe Hydraulics	PD16154-260	N/A	S3-RC-P02-H-001	1978	Repaired	Yes

7. Description of Work: Added retaining plates (QC III) to prevent upward movement of clevis pins for the RCP motor snubbers. To attach the retainer plate, a hole had to be drilled in the clevis which is ASME NF-1. (Reference: S023-922-192 FIDCN M-10181, S023-922-135 FIDCN M-10183 and S3-1201-MP-002)
8. Tests Conducted: None

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 9/29, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 8/29/95 to 9/29/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Sept 29, 1995

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |    |                                                                                                              |                                                                              |
|----|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. | Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue, Rosemead, CA 91770                    | Sheet 1 of 1<br>Unit: 3<br>CWO: 95081629000<br>DCP: 3-343.CE                 |
| 2. | Plant: San Onofre Nuclear Generating Station<br>San Clemente, CA 92674-0128                                  | Repair Spec: 200-95 REV. 0<br>P&ID: 40111AS03<br>N-5: S3-1201-3              |
| 3. | Work Performed by: Bechtel Construction Company<br>P.O. Box 450<br>San Clemente, CA 92674-0128               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A |
| 4. | Identification of System: Reactor Coolant (1201)                                                             |                                                                              |
| 5. | (a) Applicable Construction Code: ASME Section III, Class NF-1, 1974 Edition, S'75 Addenda, Code Cases: None |                                                                              |
|    | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda          |                                                                              |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:                                |                                                                              |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Snubber	Paul-Munroe Hydraulics	PD16154-262	N/A	S3-RC-P03-H-001	1978	Repaired	Yes

7. Description of Work Added retaining plates (QC III) to prevent upward movement of clevis pins for the RCP motor snubbers. To attach the retainer plate, a hole had to be drilled in the clevis which is ASME NF-1. (Reference: S023-922-192 FIDCN M-10181, S023-922-135 FIDCN M-10183 and S3-1201-MP-003)
8. Tests Conducted: None

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A      Expiration Date: N/A

Signed: [Signature], Supervising ASME Codes Engineer      Date: 9/25, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 8/29/95 to 9/29/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]      Commissions 1862 California  
Inspector's Signature      (National Board, State, Province, and Endorsements)

Date Sept 29, 1995

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company<br/>P.O. Box 450<br/>San Clemente, CA 92674-0128</p> <p>4. Identification of System: Reactor Coolant (1201)</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class NF-1, 1974 Edition, S'75 Addenda, Code Cases: None<br/>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3<br/>CWO: 95081630000<br/>DCP: 3-343.CE<br/>Repair Spec: 200-95 REV. 0<br/>P&amp;ID: 40111AS03<br/>N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A<br/>Authorization No: N/A<br/>Expiration Date: N/A</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Snubber	Paul-Munroe Hydraulics	PD16154-259	N/A	S3-RC-P04-H-001	1978	Repaired	Yes

7. Description of Work: Added retaining plates (QC III) to prevent upward movement of clevis pins for the RCP motor snubbers. To attach the retainer plate, a hole had to be drilled in the clevis which is ASME NF-1. (Reference: S023-922-191 FIDCN M-10180, S023-922-134 FIDCNs M-10182 & M-10186 and S3-1204-MP-004)
8. Tests Conducted: None

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's Designee and the AIA.



FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]  
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 9/29, 19 95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 8/29/95 to 9/29/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions 1862 California  
(National Board, State, Province, and Endorsements)

Date Sept. 29, 19 95

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System CEDM Control</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class I, 1971 Edition, W73 Addenda, Code Cases: None</u></p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 95082156000</p> <p>Rspec: GEN-107</p> <p>P&amp;ID: 40111ASO3 E-5</p> <p>N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
CEDM Vent Ball Seal	Combustion Engineering	1470-177	N/A	S21104CEDM #76	1978	Repaired	Yes

7. Description of Work:

On CEDM housing #76, the housing nut was seal welded to the ball seal housing in accordance with weld record WR3-95-586. A PT examination was performed on the completed weld.

8. Tests Conducted: System Leakage Pressure Test      Pressure: 2250 psia      Temp: 440 F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designer and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/1/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                   |                                                                                         |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770            | Unit: 3<br>MO: 95090062000<br>Rspec: EREF-0360<br>P&ID: 40134ASO3 G-5<br>N-5: S3-1212-5 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                            |                                                                                         |
| 3. Work Performed by: Southern California Edison Company                                                          | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A            |
| 4. Identification of System: Nuclear Plant Sampling                                                               |                                                                                         |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, No Addenda, Code Cases: 1637</u> |                                                                                         |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>        |                                                                                         |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/4" Diaphragm Control Valve	Fisher Controls	6289687	3295	3HV0509	1978	---	Yes
Stem/Plug	Fisher Controls	LC5457-1, 32225-1	N/A	RSO 2420-93, CR-3010-95	1993	Replacement	Yes

7. Description of Work:

The valve was disassembled for inspection after leaking by during an LLRT. The valve was reassembled after replacing the valve plug.

8. Tests Conducted: System Functional Pressure Test      Pressure: 2260 psia      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owners designee and the AIA.

FORM NIS-2 (back)

9. Remarks CR-3010-95 reconciles the replacement plug which was certified to ASME III-2, 1986 Edition, No Addenda.

(Applicable Manufacturer's Data Reports are available on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 12/7/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/2/95 to 12/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature: [Signature] Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Dec. 8, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                        |                                                                                      |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770                 | Unit: 3<br>MO: 95090158000<br>Rspec: GEN-152 R2<br>P&ID: 40141ASO3<br>N-5: S3-1301-2 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                                 |                                                                                      |
| 3. Work Performed by: Southern California Edison Company                                                               | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A         |
| 4. Identification of System: Main Steam                                                                                |                                                                                      |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None</u> |                                                                                      |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>             |                                                                                      |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	25760	N/A	S3ST016H701	1986	---	No
Load Pin	Pacific Scientific	Heat N2917B	N/A	RSO 0072-92, CR-3006-95	N/A	Replacement	No

7. Description of Work:

The snubber load pin was replaced with a cotter-type pin. A VT-3 examination of the support assembly was performed after installation.

8. Tests Conducted: N/A                      Pressure: N/A                      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.



FORM NIS-2 (back)

9. Remarks CR-3006-95 reconciles the replacement load pin which was certified to ASME III-1-NF, 1980 Edition, S'82 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.   
 repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer  
Owner or Owner's Designee, Title

Date: 10/16/95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/6/95 to 10/18/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions 1862 California  
National Board, State, Province, and Endorsements

Date Oct. 18, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Owner: Southern California Edison Company<br/>2244 Walnut Grove Avenue<br/>Rosemead, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station<br/>San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1974 Edition, S'74 Addenda, Code Cases: None</u></p> <p style="padding-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 95090504000</p> <p>Rspec: 205-95 R1</p> <p>P&amp;ID: 40123ASO3 B-4</p> <p>N-5: S3-1201-3-7</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
Pipe Spool	Ideal Forging	3-RC-126-1H	N/A	S31201ML126	N/A	---	No
3/4" 1500# RF Blind Flange	Consolidated Power Supply	Ht Code 958WNE	N/A	RSO 1545-95, SA182 F316	N/A	Replacement	No

7. Description of Work:

The 3/4" 1500# blind flange downstream of S31201MU133 was lost during the performance of the LLRT of Penetration #68. A replacement blind flange obtained and installed using the existing flange bolting. Because the spool is not normally subjected to system pressure, the VT-2 examination was exempted in accordance with IWA-7400(a)(4).

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the A.J.A.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/1/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/13/95 to 12/4/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1B62 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 4, 1995

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- |                                                                                                                     |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. Owner: Southern California Edison Company<br>2244 Walnut Grove Avenue<br>Rosemead, California 91770              | Unit: 3<br>MO: 95090910000<br>Rspec: 206-95<br>P&ID: 40127FSO3 C-4<br>N-5: S3-1203-16 |
| 2. Plant: San Onofre Nuclear Generating Station<br>San Clemente, California 92674-0128                              |                                                                                       |
| 3. Work Performed by: Southern California Edison Company                                                            | Type Code Symbol Stamp: N/A<br>Authorization No: N/A<br>Expiration Date: N/A          |
| 4. Identification of System Component Cooling Water                                                                 |                                                                                       |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S'75 Addenda, Code Cases: None</u> |                                                                                       |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>          |                                                                                       |

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped Yes/No
3/8" 3-Valve Manifold	Gould Inc.	15005	N/A	Upstream of 3FT6312	1978	Replaced	Yes
3/8" 3-Valve Manifold	Gould Inc.	14745	N/A	RSO 2073-84, Model 30023000	1978	Replacement	Yes

7. Description of Work:

The 3-valve manifold upstream of instrument 3FT-6312 was replaced due to valve seat leakage.

8. Tests Conducted: System Functional Pressure Test      Pressure: 78 psig      Temp: N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or Owner's designee and the AIA.

FORM NIS-2 (back)

9. Remarks None.

(Applicable Manufacturer's Data Reports are evaluated on-site)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/6/95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/19/95 to 12/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1862 California  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1995