

March 17, 2009

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555-0001

Subject: **Docket No. 50-362**
Owner's Report of Inservice Inspection, Form NIS-1
San Onofre Nuclear Generating Station, Unit 3

Reference: American Society of Mechanical Engineers (ASME)
Boiler and Pressure Vessel Code (B&PVC), Section XI

Dear Sir or Madam:

In accordance with 10CFR50.55a(g) and ASME B&PVC, Section XI, Article IWA 6240(b), this letter submits the Inservice Inspection (ISI) Summary Report, including the Owner's Reports of Repair/Replacement Activities, for San Onofre Nuclear Generating Station, Unit 3. This report covers the period from December 13, 2006 through December 18, 2008, the date Unit 3 returned to service following its Cycle 15 refueling outage.

If you have any questions or require additional information, please contact me or Mr. Clay E. Williams at (949) 368-6707.

Sincerely,



Enclosure: Inservice Inspection Summary Report

cc: E. E. Collins, Regional Administrator, NRC Region IV
R. J. Caniano, Director, Division of Reactor Safety, NRC Region IV
N. Kalyanam, NRC Project Manager, San Onofre Units 2 and 3
G. G. Warnick, NRC Senior Resident Inspector, San Onofre Units 2 & 3

State of California
Department of Industrial Relations
Division of Occupational Safety and Health
Pressure Vessels Unit
Attention: Dabbriu Patnaik, Senior Safety Engineer
2000 McFadden Avenue, Suite 215
Santa Ana, CA 92705

State of California
Department of Industrial Relations
Division of Occupational Safety and Health
Pressure Vessels Unit
Attention: Don Cook, Principal Pressure Vessel Engineer
1515 Clay Street, Suite 1302
Oakland, CA 94612



**SAN ONOFRE
NUCLEAR GENERATING STATION
UNIT-3**

3rd INTERVAL, 2nd PERIOD
REFUELING OUTAGE-15

**INSERVICE INSPECTION
SUMMARY REPORT**

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1 SUMMARY REPORT

Date of Document Completion.....March 09, 2009

Name & Address of Plant:

San Onofre Nuclear Generating Station
5000 Pacific Coast Hwy
San Clemente, CA 92672

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

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

Interval.....Third Ten Year ISI Interval
Period.....Second Period

Refueling Outage Number.....15

Name & Address of Owners:

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

San Diego Gas & Electric Company
P.O. Box 1831
San Diego, CA 92119

City of Riverside
Supervising Deputy City Attorney
3900 Main Street,
Riverside, CA 92522

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. **Owner:** Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. **Plant:** San Onofre Nuclear Generating Station
5000 Pacific Coast Hwy
San Clemente, CA 92672
3. **Plant Unit:** 3 4. **Owner's Certificate of Authorization:** N/A
5. **Commercial Service Date:** 4/4/84 6. **National Board Number for Unit:** N/A
7. **Components Inspected:**

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial Number	State or Province Number	National Board Number
Reactor Vessel 3MV001	Combustion Engineering	72170	35204-82	22001
Pressurizer 3ME087	Combustion Engineering	70603	35204-82	21496
Reactor Coolant Pump 3MP004	Byron Jackson	701-N-0562	N/A	N/A
Steam Gen 3ME088	Combustion Engineering	72270-2	35204-82	22265
Steam Gen 3ME089	Combustion Engineering	72270-1	35204-82	22264

FORM NIS-1 (back)

8. Examination Date: December 13, 2006 to December 18, 2008
9. Inspection Period Identification: 1st Period X 2nd Period 3rd Period
10. Inspection Interval Identification: 1st 10-Yr 2nd 10-Yr X 3rd 10-Yr 4th 10-Yr
11. Applicable Edition of Section XI... IWB, IWC, IWD, IWF, 1995 Edition, with the 1996
Addenda, IWE, IWL 1992 Edition with 1992 Addenda,
12. Date/Revision of Inspection Plan... August 18, 2003, Doc # 90074, Rev 0
13. Abstract of Examinations & Tests.....See page 5
14. Abstract of Results of Examinations & Tests:.....See page 6
15. Abstract of Corrective Measures:.....See page 6

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: 3/9/09 Signed: Southern California Edison By: [Signature] for
(Owner) Manager, Maintenance/Systems Engineering

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 HSBCT of Hartford Connecticut 06103, have inspected the components described in this Owner's Report during the period December 13, 2006 to December 18, 2008 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 2081
NB, State, Province or Endorsements

Date: 3/11/09

ABSTRACT OF EXAMINATIONS & TESTS

This report covers the inservice examination activities conducted at the San Onofre Nuclear Generating Station (SONGS), Unit 3. The examinations and tests were performed during the second period of the third ten-year Interval in accordance with approved ISI program procedures and document 90074, Third 10-year Inservice Inspection Program Plan. The inservice examinations were conducted in accordance with 10 CFR Part 50.55a and ASME Boiler and Pressure Vessel Code Section XI.

List of Code Class 1 and 2 inservice examinations and tests performed are included in Attachment-2.

ABSTRACT OF EXAMINATIONS / TESTS RESULTS AND CORRECTIVE MEASURES

Summary of corrective measures,

- 1) Boric acid residue accumulation recorded on LPSI pump number 1 support component, Nuclear Notification (NN) 200161331 was generated for engineering review. As required by ISI program additional VT-3 examinations were performed on all the LPSI pump number 2 support components with no reportable indications. Boric acid residue was cleaned from LPSI pump 1, VT-3 examination was re-performed with no reportable indications.
- 2) One loose nut was recorded on a shutdown cooling system spring hanger VT-3 examination. Nuclear notification (NN) 200188202 was generated. As required by ISI program additional VT-3 examinations on spring hangers in shutdown cooling system hangers were performed with acceptable results. Loose nut on spring hanger was tightened to design specification and re-examined with acceptable results.
- 3) NN 200219433 was generated to evaluate grinder marks observed during VT-3 examination on a containment liner plate. Engineering evaluation determined that the mechanical damage to the containment line is minor and has no adverse effect on the containment leak tight integrity. As required by ISI program this line plate added for UT examination to monitor potential future degradation.
- 4) During performance of the Unit 3, 25th year tendon surveillance four of the 55 total strands of horizontal tendon #9 failed. Tendon # 9 is about 346 feet long and the failures occurred below the main feedwater line penetration approximately 35 feet from the anchorage at buttress # 3. Tendon # 9 was the last inspection tendon in the 25th year tendon surveillance inspection plan for Unit 3, all other tendons tested during this surveillance had acceptable test results. Action Request # 070301467 was written and the tendon was replaced.

Grease refilling for vertical tendon # 39-113 was completed with a void ratio of 13.2% which exceeded the acceptance criteria of 10%. Order # 800075683 was created and an Operability Assessment performed. The containment post-tensioning system is acceptable with the higher void ratio for vertical tendon # 39-113. Grease will be added to this tendon during tendon activities for the steam generator replacement project.

5) Structural weld overlay repair (WOL) was performed on hot leg surge nozzle-to-safe-end, hot leg drain nozzle-to-safe-end, hot leg shutdown cooling nozzle to safe end dissimilar metal welds, and the adjacent stainless steel welds to mitigate potential primary water stress corrosion cracking (PWSCC). After WOL repair, ultrasonic (UT) examination was performed. No suspected flaw indications were observed within the required weld overlay examination volume. During the examination of the weld overlay on the hot leg drain line, one planar flaw was identified in the underlying nozzle base metal, outside the required weld overlay examination volume. This flaw was evaluated in accordance with the ASME code, Section XI, IWB-3500 requirements, and found to be acceptable (NN 200276069). WOL was performed in accordance with relief request ISI-3-27 and ISI-3-28.

Results of all other scheduled examinations/tests were acceptable per ASME Section XI Code.

2 STEAM GENERATOR EXAMINATIONS

San Onofre Unit 3 Technical Specifications provide requirements for inspection of steam generator tubing, and associated reporting to the Nuclear Regulatory Commission. The report to the Nuclear Regulatory Commission will be provided in accordance with San Onofre Unit 3 Technical Specification 5.7.2.c.

3 ATTACHMENT-1

**ISI PLAN AND SCHEDULE FOR THE THIRD INTERVAL INCLUDING
NUMBER AND PERCENTAGE OF EXAMINATIONS AND TESTS
COMPLETED (2 Pages)**

ISI PLAN AND SCHEDULE FOR THE THIRD INTERVAL INCLUDING NUMBER AND PERCENTAGE OF EXAMINATIONS AND TESTS COMPLETED

Subsection	Category	Examinations Required, See Note-1	Period-1, , See Note-2	Period-2, See Note-2	Period-3, See Note-2	Number of examinations completed during U3C15	Percentage of examinations completed for the 1st Period(U3C13 & U3C14) and 2nd Period (U3C15) of the 3rd Interval, See Note-3
IWB	B-A	27	3	2	22	2	19%
	B-B	8	3	2	3	0	37%
	B-D	34	12	10	12	0	35%
	B-F/B-J	98	33	35	30	20	54%
	B-G-1	248	86	54	108	54	56%
	B-G-2	177	57	62	58	40	55%
	B-K	12	4	3	5	0	33%
	B-L-1	2	0	0	2	0	0%
	B-L-2	See Note-4	N/A	N/A	N/A	N/A	N/A
	B-M-1	8	3	3	2	0	37%
	B-M-2	See Note-4	N/A	N/A	N/A	N/A	N/A
	B-N-1	3	1	1	1	0	33%
	B-N-2	30	0	0	30	0	0%
	B-N-3	2	0	0	2	0	0%
	B-O	1	0	0	1	0	0%
	B-P	Each reactor refueling outage prior to plant startup				100%	N/A
	B-Q	Governed by the plant Technical Specification					
IWC	C-A	20	7	6	7	0	35%
	C-B	8	2	2	4	0	25%
	C-C	48	17	15	16	0	35.0%
	C-F-1	140	48	46	46	46	67%
	C-F-2	28	10	9	9	0	36%
	C-G	5	1	2	2	1	40%
	C-H	Each inspection period					100%
IWD	D-A	50	19	15	16	15	68%
	D-B	Each inspection period					100%
IWF	F-A	270	88	91	91	91	66%
IWE	E-A	Containment Surfaces	General Visual	General Visual	Visual VT-3	441	100%, See note-5
	E-C	6	2	2	2	2	100%, See note-5
	E-D	3	1	1	1	1	100%, See note-5
	E-G	99	0	0	99	99	100%, See note-5
IWL	L-A	Once in every ten years				Complete	100%, See note-5
	L-B	Once in every five years				Complete	100%, See note-5
Augmented ISI for the Reactor coolant pump flywheels and high energy piping							
	Flywheels	4	0	0	4	0	0%
	High energy piping welds	19	60	0	0	0	100%
Notes : 1) Required Examinations subject to change based on							
a) Plant Modification							

ISI PLAN AND SCHEDULE FOR THE THIRD INTERVAL INCLUDING NUMBER AND PERCENTAGE OF
EXAMINATIONS AND TESTS COMPLETED

b) Periodic update of Regulatory Guide 1.147, Inservice Inspection Code Case Acceptability					
ASME Section XI, Division 1					
c) Periodic update of 10CFR 50.55a Codes and Standards					
d) Approval or disapproval of relief requests submitted to the NRC in accordance with 10CFR 50.55a					
2) Number of examinations scheduled for a period may change due to					
a) Component accessibility because of high radiation or contamination					
b) Based on Note-1					
3) Subject to change based on Note-1					
4) Examination is required only when a pump or valve is disassembled for maintenance, repair or volumetric examination					
5) The initial 120 months (1st interval) for containment ISI for Subsections IWE and IWL begun on September 9, 1998, and ended on December 18, 2008, in accordance with 10CFR 50.55a(b)(2)(vi)					

4 ATTACHMENT- 2

**LIST OF CODE CLASS 1 AND 2, ISI EXAMINATIONS AND
TESTS COMPLETED (6 Pages)**

LIST OF ASME CLASS 1 AND 2 ISI EXAMINATIONS AND TESTS COMPLETED DURING U3C15 REFUELING OUTAGE

ISI DESIGNATION NUMBER	COMPONENT EXAMINED OR TESTED	CODE CLASS	CODE CATEGORY	CODE ITEM NUMBER	EXAMINATION OR TEST METHOD		
					VOLUMETRIC EXAMINATION	SURFACE EXAMINATION	VISUAL EXAMINATION
03-001-058-01	REACTOR VESSEL CLOSURE WASHER #1	1	BG1	B6.50			VT-1
03-001-058-02	REACTOR VESSEL CLOSURE WASHER #2	1	BG1	B6.50			VT-1
03-001-058-03	REACTOR VESSEL CLOSURE WASHER #3	1	BG1	B6.50			VT-1
03-001-058-04	REACTOR VESSEL CLOSURE WASHER #4	1	BG1	B6.50			VT-1
03-001-058-05	REACTOR VESSEL CLOSURE WASHER #5	1	BG1	B6.50			VT-1
03-001-058-06	REACTOR VESSEL CLOSURE WASHER #6	1	BG1	B6.50			VT-1
03-001-058-07	REACTOR VESSEL CLOSURE WASHER #7	1	BG1	B6.50			VT-1
03-001-058-08	REACTOR VESSEL CLOSURE WASHER #8	1	BG1	B6.50			VT-1
03-001-058-09	REACTOR VESSEL CLOSURE WASHER #9	1	BG1	B6.50			VT-1
03-001-058-10	REACTOR VESSEL CLOSURE WASHER #10	1	BG1	B6.50			VT-1
03-001-058-11	REACTOR VESSEL CLOSURE WASHER #11	1	BG1	B6.50			VT-1
03-001-058-12	REACTOR VESSEL CLOSURE WASHER #12	1	BG1	B6.50			VT-1
03-001-058-13	REACTOR VESSEL CLOSURE WASHER #13	1	BG1	B6.50			VT-1
03-001-058-14	REACTOR VESSEL CLOSURE WASHER #14	1	BG1	B6.50			VT-1
03-001-058-15	REACTOR VESSEL CLOSURE WASHER #15	1	BG1	B6.50			VT-1
03-001-058-16	REACTOR VESSEL CLOSURE WASHER #16	1	BG1	B6.50			VT-1
03-001-058-17	REACTOR VESSEL CLOSURE WASHER #17	1	BG1	B6.50			VT-1
03-001-058-18	REACTOR VESSEL CLOSURE WASHER #18	1	BG1	B6.50			VT-1
03-001-058-19	REACTOR VESSEL CLOSURE WASHER #19	1	BG1	B6.50			VT-1
03-001-058-20	REACTOR VESSEL CLOSURE WASHER #20	1	BG1	B6.50			VT-1
03-001-058-21	REACTOR VESSEL CLOSURE WASHER #21	1	BG1	B6.50			VT-1
03-001-058-22	REACTOR VESSEL CLOSURE WASHER #22	1	BG1	B6.50			VT-1
03-001-058-23	REACTOR VESSEL CLOSURE WASHER #23	1	BG1	B6.50			VT-1
03-001-058-24	REACTOR VESSEL CLOSURE WASHER #24	1	BG1	B6.50			VT-1
03-001-058-25	REACTOR VESSEL CLOSURE WASHER #25	1	BG1	B6.50			VT-1
03-001-058-26	REACTOR VESSEL CLOSURE WASHER #26	1	BG1	B6.50			VT-1
03-001-058-27	REACTOR VESSEL CLOSURE WASHER #27	1	BG1	B6.50			VT-1
03-001-058-28	REACTOR VESSEL CLOSURE WASHER #28	1	BG1	B6.50			VT-1
03-001-058-29	REACTOR VESSEL CLOSURE WASHER #29	1	BG1	B6.50			VT-1
03-001-058-30	REACTOR VESSEL CLOSURE WASHER #30	1	BG1	B6.50			VT-1
03-001-058-31	REACTOR VESSEL CLOSURE WASHER #31	1	BG1	B6.50			VT-1
03-001-058-32	REACTOR VESSEL CLOSURE WASHER #32	1	BG1	B6.50			VT-1
03-001-058-33	REACTOR VESSEL CLOSURE WASHER #33	1	BG1	B6.50			VT-1
03-001-058-34	REACTOR VESSEL CLOSURE WASHER #34	1	BG1	B6.50			VT-1
03-001-058-35	REACTOR VESSEL CLOSURE WASHER #35	1	BG1	B6.50			VT-1
03-001-058-36	REACTOR VESSEL CLOSURE WASHER #36	1	BG1	B6.50			VT-1
03-001-058-37	REACTOR VESSEL CLOSURE WASHER #37	1	BG1	B6.50			VT-1
03-001-058-38	REACTOR VESSEL CLOSURE WASHER #38	1	BG1	B6.50			VT-1

LIST OF ASME CLASS 1 AND 2 ISI EXAMINATIONS AND TESTS COMPLETED DURING U3C15 REFUELING OUTAGE

03-001-058-39	REACTOR VESSEL CLOSURE WASHER #39	1	BG1	B6.50			VT-1
03-001-058-40	REACTOR VESSEL CLOSURE WASHER #40	1	BG1	B6.50			VT-1
03-001-058-41	REACTOR VESSEL CLOSURE WASHER #41	1	BG1	B6.50			VT-1
03-001-058-42	REACTOR VESSEL CLOSURE WASHER #42	1	BG1	B6.50			VT-1
03-001-058-43	REACTOR VESSEL CLOSURE WASHER #43	1	BG1	B6.50			VT-1
03-001-058-44	REACTOR VESSEL CLOSURE WASHER #44	1	BG1	B6.50			VT-1
03-001-058-45	REACTOR VESSEL CLOSURE WASHER #45	1	BG1	B6.50			VT-1
03-001-058-46	REACTOR VESSEL CLOSURE WASHER #46	1	BG1	B6.50			VT-1
03-001-058-47	REACTOR VESSEL CLOSURE WASHER #47	1	BG1	B6.50			VT-1
03-001-058-48	REACTOR VESSEL CLOSURE WASHER #48	1	BG1	B6.50			VT-1
03-001-058-49	REACTOR VESSEL CLOSURE WASHER #49	1	BG1	B6.50			VT-1
03-001-058-50	REACTOR VESSEL CLOSURE WASHER #50	1	BG1	B6.50			VT-1
03-001-058-51	REACTOR VESSEL CLOSURE WASHER #51	1	BG1	B6.50			VT-1
03-001-058-52	REACTOR VESSEL CLOSURE WASHER #52	1	BG1	B6.50			VT-1
03-001-058-53	REACTOR VESSEL CLOSURE WASHER #53	1	BG1	B6.50			VT-1
03-001-058-54	REACTOR VESSEL CLOSURE WASHER #54	1	BG1	B6.50			VT-1
03-002-004	PEEL SEGMENT WELD @ 162 DEGREES	1	B-A	B1.22	UT		
03-002-012	DOME WELD	1	B-A	B1.21	UT		
03-004-029-01	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-02	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-03	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-04	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-05	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-06	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-07	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-08	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-09	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-10	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-11	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-12	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-13	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-14	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-15	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-16	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-17	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-18	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-19	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-029-20	PRIMARY MANWAY STUD @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-01	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-02	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-03	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-04	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-05	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-06	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-07	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1

LIST OF ASME CLASS 1 AND 2 ISI EXAMINATIONS AND TESTS COMPLETED DURING U3C15 REFUELING OUTAGE

03-004-030-08	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-09	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-10	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-11	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-12	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-13	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-14	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-15	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-16	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-17	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-18	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-19	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-004-030-20	PRIMARY MANWAY NUT @ 112 DEGREES, 30 MINUTES	1	BG2	B7.30			VT-1
03-006-010	SURGE NOZZLE-TO-SAFE END	1	B-J	B9.11	UT		
03-006-011	DRAIN NOZZLE-TO SAFE END (2" DIA.)	1	B-J	B9.21	UT		
03-007-009	SHUTDOWN COOLING NOZZLE-TO-SAFE END WELD	1	B-J	B9.11	UT		
03-011-009	SAFETY INJECTION NOZZLE-TO-PIPE WELD	1	B-J	B9.31	UT		
03-012-017	PIPE-TO-STEAM GENERATOR NOZZLE EXTENSION PIECE WELD	1	B-J	B9.11	UT		
03-014-017	PIPE-TO-STEAM GENERATOR NOZZLE EXTENSION PIECE WELD	1	B-J	B9.11	UT		
03-014-018	DRAIN NOZZLE-TO-PIPE WELD	1	B-J	B9.32	UT		
03-016-015	12" SCH 160 ELBOW-TO-PIPE	1	B-J	B9.11	UT		
03-016-016	12" SCH 160 PIPE-TO-NOZZLE	1	B-J	B9.11	UT		
03-016-019	SNUBBER	1	F-A	F1.10C			VT-3
03-016-020	Y-STOP	1	F-A	F1.10A			VT-3
03-017-300	12" SCH 160 VALVE-TO-PIPE	1	B-J	B9.11	UT		
03-018-340	12" SCH 160 PIPE-TO-NOZZLE SAFE END	1	B-J	B9.11	UT		
03-019-1000	GUIDE	1	F-A	F1.10B			VT-3
03-019-1010	GUIDE	1	F-A	F1.10A			VT-3
03-019-830	GUIDE	1	F-A	F1.10B			VT-3
03-019-840	AXIAL STOP	1	F-A	F1.10A			VT-3
03-019-850	Y-STOP	1	F-A	F1.10A			VT-3
03-019-880	AXIAL STOP	1	F-A	F1.10A			VT-3
03-021-010	16" SCH 160 NOZZLE-TO-ELBOW	1	B-J	B9.11	UT		
03-021-230	16" SCH 160 PIPE-TO-REDUCING TEE	1	B-J	B9.11	UT		
03-021-320	10" SCH 140 REDUCING TEE-TO-PIPE	1	B-J	B9.11	UT		
03-021-600	SNUBBER	1	F-A	F1.10C			VT-3
03-021-700	VARIABLE SPRING	1	F-A	F1.10C			VT-3
03-023-240	VARIABLE SPRING	1	F-A	F1.10C			VT-3
03-024-560	VARIABLE SPRING	1	F-A	F1.10C			VT-3
03-028-070	2" SCH 160 PIPE-TO-ELBOW	1	B-J	B9.21	UT		
03-028-190	Y-STOP	1	F-A	F1.10A			VT-3
03-029-050	2" SCH 160 TEE-TO-PIPE	1	B-J	B9.21	UT		
03-030-010	2" SCH 160 NOZZLE-TO-PIPE	1	B-J	B9.21	UT		
03-032-230	2" SCH 160 PIPE-TO-NOZZLE	1	B-J	B9.21	UT		
03-033-040	2" SCH 160 PIPE-TO-VALVE	1	B-J	B9.21	UT		

LIST OF ASME CLASS 1 AND 2 ISI EXAMINATIONS AND TESTS COMPLETED DURING U3C15 REFUELING OUTAGE

03-034-040	2" SCH 160 PIPE-TO-VALVE	1	B-J	B9.21	UT		
03-038-004	VERTICAL SUPPORT COLUMN ASSEMBLY	1	F-A	F1.40A			VT-3
03-038-005	VERTICAL SUPPORT COLUMN ASSEMBLY	1	F-A	F1.40A			VT-3
03-038-006	VERTICAL SUPPORT COLUMN ASSEMBLY	1	F-A	F1.40A			VT-3
03-038-007	VERTICAL SUPPORT COLUMN ASSEMBLY	1	F-A	F1.40A			VT-3
03-044-400	SNUBBER	2	F-A	F1.20C			VT-3
03-044-420	SNUBBER	2	F-A	F1.20C			VT-3
03-044-430	SNUBBER	2	F-A	F1.20C			VT-3
03-044-440	SNUBBER	2	F-A	F1.20C			VT-3
03-044-470	SNUBBER	2	F-A	F1.20C			VT-3
03-046-640	VARIABLE SPRING	2	F-A	F1.20C			VT-3
03-046-670	SWAY STRUT W/WELDED ATTACHMENT	2	F-A	F1.20A			VT-3
03-046-680	Y-STOP	2	F-A	F1.20A			VT-3
03-046-700	Y-STOP	2	F-A	F1.20A			VT-3
03-046-730	Y-STOP	2	F-A	F1.20A			VT-3
03-046-740	GUIDE & Y-STOP	2	F-A	F1.20B			VT-3
03-046-770	AXIAL STOP	2	F-A	F1.20A			VT-3
03-048-580	Y-STOP	2	F-A	F1.20A			VT-3
03-048-610	GUIDE	2	F-A	F1.20A			VT-3
03-048-630	Y-STOP	2	F-A	F1.20A			VT-3
03-048-640	VARIABLE SPRING	2	F-A	F1.20C			VT-3
03-059-260	18" SCH 40 PIPE-TO-6" SCH 40 BRANCH WELD	2	CF1	C5.41		PT	
03-059-290	18" SCH 40 PIPE-TO-6" SCH 40 BRANCH WELD	2	CF1	C5.41		PT	
03-059-650	VARIABLE SPRING	2	F-A	F1.20C			VT-3
03-061-2250	VALVE SUPPORT - SNUBBER FOR VALVE 3HV-9336	2	F-A	F1.40C			VT-3
03-061-2260	VALVE SUPPORT - SNUBBER FOR VALVE 3HV-9336	2	F-A	F1.40A			VT-3
03-061-720	8" CONTROL VALVE BODY WELD (DRAWING NO. S023-501-5-1-109)	2	C-G	C6.20		PT	
03-062-350-01	LPSI PUMP #1 SUPPORT COMPONENTS	2	F-A	F1.40B			VT-3
03-062-350-02	LPSI PUMP #1 SUPPORT COMPONENTS	2	F-A	F1.40B			VT-3
03-062-350-03	LPSI PUMP #1 SUPPORT COMPONENTS	2	F-A	F1.40B			VT-3
03-066-985-01	LPSI PUMP #2 SUPPORT COMPONENT	2	F-A	F1.40B			VT-3
03-066-985-02	LPSI PUMP #2 SUPPORT COMPONENT	2	F-A	F1.40B			VT-3
03-066-985-03	LPSI PUMP #2 SUPPORT COMPONENT	2	F-A	F1.40B			VT-3
03-068-1060	GUIDE	2	F-A	F1.20A			VT-3
03-068-1070	GUIDE & Y-STOP	2	F-A	F1.20B			VT-3
03-068-330	4" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-068-370	4" PIPE-TO-TEE	2	CF1	C5.21	UT	PT	
03-068-390	4" X 4" X 4" SCH 80S TEE-TO-PIPE	2	CF1	C5.21	UT	PT	
03-068-430	4" SCH 80S PIPE-TO-TEE	2	CF1	C5.21	UT	PT	
03-068-440	4" SCH 80S TEE-TO-PIPE	2	CF1	C5.21	UT	PT	
03-068-450	4" SCH 80S TEE-TO-REDUCER	2	CF1	C5.21	UT	PT	
03-068-460	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-068-500	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-068-950	GUIDE & Y-STOP	2	F-A	F1.20B			VT-3
03-068-960	GUIDE	2	F-A	F1.20A			VT-3

LIST OF ASME CLASS 1 AND 2 ISI EXAMINATIONS AND TESTS COMPLETED DURING U3C15 REFUELING OUTAGE

03-069-3060	GUIDE	2	F-A	F1.20A			VT-3
03-069-3240	Y-STOP	2	F-A	F1.20A			VT-3
03-069-3280	Y-STOP	2	F-A	F1.20A			VT-3
03-069-3520	ANCHOR STRAP	2	F-A	F1.20B			VT-3
03-069-3640	SWAY STRUT	2	F-A	F1.20A			VT-3
03-070-1040	2" SCH 160 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-1050	2" SCH 160 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-110	4"X 4"X 4" SCH. 80S TEE-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1110	2" SCH 160 PIPE BEND-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-1140	2" SCH 160PIPE BEND TO ELBOW	2	CF1	C5.21	UT	PT	
03-070-1150	2" SCH 160 ELBOW-TO-TEE	2	CF1	C5.21	UT	PT	
03-070-1170	2" X 2" X 3/4" REDUCER TEE-TO-PIPE BEND	2	CF1	C5.21	UT	PT	
03-070-120	4" SCH. 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-130	4" SCH. 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1350	2" SCH 160 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1580	4" X 4" X 4" SCH 120 TEE-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1590	4" SCH 120 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-160	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-1600	4" SCH 120 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1650	4" SCH 120 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-1660	4" SCH 120 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1670	4" SCH 120 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-1680	4" SCH 120 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1690	4" SCH 120 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-170	4" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1700	4" SCH 120 ELBOW-TO-REDUCER	2	CF1	C5.21	UT	PT	
03-070-1710	4" X 3" REDUCER TO 3" SCH 160 PIPE	2	CF1	C5.21	UT	PT	
03-070-1720	3" SCH 160 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-1730	3" SCH 160 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1790	3" SCH 160 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-1800	3" SCH 160 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-1810	3" SCH 160 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-190	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-200	4" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-210	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-2160	GUIDE	2	F-A	F1.20A			VT-3
03-070-220	4" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-230	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-2660	AXIAL STOP	2	F-A	F1.20B			VT-3
03-070-2680	3-WAY STOP	2	F-A	F1.20B			VT-3
03-070-2710	2 SNUBBERS	2	F-A	F1.20C			VT-3
03-070-2740	GUIDE	2	F-A	F1.20A			VT-3
03-070-2860	SPRING	2	F-A	F1.20C			VT-3
03-070-2890	3-WAY STOP	2	F-A	F1.20B			VT-3
03-070-960	2" SCH 160 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	

LIST OF ASME CLASS 1 AND 2 ISI EXAMINATIONS AND TESTS COMPLETED DURING U3C15 REFUELING OUTAGE

03-070-970	2" SCH 160 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-070-980	2" SCH 160 PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-070-990	2" SCH 160 ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-071-150	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-071-1500	GUIDE & Y-STOP	2	F-A	F1.20B			VT-3
03-071-1550	GUIDE	2	F-A	F1.20A			VT-3
03-071-160	4" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-071-1670	Y-STOP	2	F-A	F1.20A			VT-3
03-071-170	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-071-1770	GUIDE	2	F-A	F1.20A			VT-3
03-071-180	4" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-071-200	4" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-071-210	4" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-071-250	2" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-071-260	2" SCH 80S PIPE-TO-ELBOW	2	CF1	C5.21	UT	PT	
03-071-360	2" SCH 80S ELBOW-TO-PIPE	2	CF1	C5.21	UT	PT	
03-072-1410	Y-STOP VALVE SUPPORT	2	F-A	F1.40A			VT-3
03-080-220	SUPPORT, CRADLE BANDS - UPPER	2	F-A	F1.40B			VT-3
03-080-230	SUPPORT, CRADLE BANDS - LOWER	2	F-A	F1.40B			VT-3
03-082-040	14" SCH 160 PIPE-TO-END CAP	2	CF1	C5.11	UT	PT	
SYSTEM LEAKAGE TEST COMPLETED							
PROCEDURE	SYSTEM	CLASS	CATEGORY	TEST			
SO23-XVII-3.1.1	REACTOR COOLANT	1	B-P	VT-2			
SO23-XVII-3.2.2	MAIN STEAM	2	C-H	VT-2			
SO23-XVII-3.2.3	MAIN AND AUXILIARY FEEDWATER	2	C-H	VT-2			
CODE CASES APPLICABLE TO THIRD TEN-YEAR ISI INTERVAL, 1) N-460, 2) N-481, 3) N-498-1, 4) N-504-2, 6) N-598, 7) N-638-1							

5 ATTACHMENT-3

ABSTRACT AND FORM NIS-2 OWNER'S REPORT FOR
REPAIR / REPLACEMENT ACTIVITY

Abstract of Records of Repairs and Replacements

	WO	EQID	Class	NIS-2	Work Summary
1	05010694001	3PV0201A	III-2	6/10/2008	Replaced spindle
2	05100979000	3PV0100A	III-1	3/6/2009	Replaced upper bellow bonnet assembly
3	05100993000	3PV0100B	III-1	3/6/2009	Replaced upper bellow bonnet assembly
4	05120826000	3LV0110A	III-2	6/13/2008	Replaced spindle/plug assembly
5	06030303000	N60061-00-0004	III-2	7/31/2008	Replaced adjustment bolt on spare PSV
6	06121158000	S31201MP002	III-1	3/31/2008	Replaced mechanical seal
7	07021195000	S31201ME087	III-1	3/27/2008	Structural overlay of pressurizer surge nozzle
8	07111286000	3PSV9226	III-2	3/31/2008	Replaced safety valve
9	800049501	S31301ME088P	III-1	3/4/2009	Replaced SG manway cover bolting
10	800049503	S31301ME089P	III-1	3/4/2009	Replaced SG manway cover bolting
11	800049590	3PSV8402	III-2	3/4/2009	Replaced valve and inlet bolting
12	800049658	3PSV8407	III-2	3/4/2009	Replaced valve and inlet bolting
13	800049664	3PSV8408	III-2	3/4/2009	Replaced valve and inlet bolting
14	800049669	3PSV8409	III-2	3/4/2009	Replaced valve and inlet bolting
15	800049709	3PSV8416	III-2	3/4/2009	Replaced valve and inlet bolting
16	800049712	3PSV8417	III-2	3/4/2009	Replaced valve and inlet bolting
17	800050994	S31301ME088	III-1	2/17/2009	Replaced handhole cover bolting
18	800052696	3PSV9349	III-2	2/16/2009	Replaced valve
19	800056317	S31204MU068	III-1	2/5/2009	Replaced valve bonnet
20	800057549	S31204MR227	III-1	3/6/2009	Fabricated vent valve assembly
21	800063968	S31204MU029	III-1	3/3/2009	Overhaul check valve
22	800051005	S31220MX034	III-2	2/23/2009	Replaced flange bolting
23	800066641	MSSV Inlet Flange Studs	III-2	3/4/2009	Fabricate 60 Inlet Studs for Main Steam Safety Valves
24	800071005	3PSV0201	III-1	3/3/2009	Replaced pressurizer safety valve
25	800077981	S31201ME087	III-1	2/27/2009	Replaced (6) pressurizer heaters
26	800078112	S31201ML015	III-1	2/27/2009	Structural overlay of hot leg surge nozzle
27	800078112	S31201ML016	III-1	2/27/2009	Structural overlay of shutdown cooling nozzle
28	800078112	S31201ML018	III-1	2/27/2009	Structural overlay of hot leg drain nozzle
29	800083097	S31204MU018	III-1	3/3/2009	Replaced 3" check valve
30	800084423	S31204MU029	III-1	3/3/2009	Seal weld hinge pin closure plugs
31	800141490	3PSV0201	III-1	3/3/2009	Replaced pressurizer safety valve
32	800141541	3PSV0200	III-1	See note 1	Replaced pressurizer safety valve
33	800160365	S31201MP001	III-1	3/4/2009	Replaced mechanical seal
34	800160452	S31201MP004	III-1	3/4/2009	Replaced mechanical seal
35	800166195	S31204MR227	III-1	3/6/2009	Replaced double vent valve assembly
36	800177969	S31305MU124	III-2	3/3/2009	Replaced poppet in check valve
37	800180638	S32417MU016	III-2	3/4/2009	Replace valve seat
38	800181895	S3ST001H025T	III-2	1/6/2009	Replaced snubber
39	800184237	S3RC031H001	III-1	1/8/2009	Replaced snubber
40	800185890	S3ST002H007E	III-2	1/12/2009	Replaced snubber
41	800187989	S3VC001H009A	III-2	1/14/2009	Replaced snubber
42	800188198	S3ST001H005	III-2	1/16/2009	Replaced snubber
43	800189685	S3ST001H002	III-2	1/20/2009	Replaced snubber
44	800190035	S31204MU029	III-1	3/3/2009	Fabricated (2) hinge pin closure plugs
45	800191029	S31204MU029	III-1	3/3/2009	Machined valve disc hinge pin bores
46	800194220	S31101MV001A	III-1	1/27/2009	Weld repaired vessel head at CEDM #64

Note 1. Reused inlet flange nuts from 3PSV0201 were used on 3PSV0200 without recording the heat codes. The traceability issue was described in notification 200331548. All the new and reused nuts were VT-1 examined and were acceptable.

SCE confirmed that the affected safety valve remained operable. The associated NIS-2 data report will be completed once the pending traceability issue has been resolved. It will be submitted with a subsequent NIS-1.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

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

Date: 05/22/08

Sheet 1 of 1

Unit: 3

2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, California 92674-0128

Repair/Replacement Plan: ASME SECTION XI
DATA-0599

3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770

MO/CWO: 05010694001

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, Summer 1974 Addenda.

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
2" 600# Globe Valve	Control Components	100142-10-1	N/A	3PV0201A	2000	Corrected	Yes
Spindle	Control Components	600296	N/A	RSO-1615-05, SB637 N07718 (RoR-008-03)	2005	Installed	Yes

7. Description of Work:

Replaced the spindle in the valve in plant location 3PV0201A with an in-kind replacement spindle in accordance with ASME XI Data flag - 0599.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other ☐

See: AR 080300738-10

Pressure: ≥ 2250 psi

Test 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: RoR-008-03 reconciles the replacement spindle which was certified to ASME III-2, 1989 Ed., No Add.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Meichler Supervising ASME Codes Engineer Date: 5/23/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/10/08 to 6/10/08, 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 A2081 California
National Board, State, Province, and Endorsements

Date 6/10/08

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770
Date: 11/11/08
Unit: 3
Sheet 1 of 1
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, California 92674-0128
Repair/Replacement Plan: ASME SECTION XI
DATA-0234
3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770
MO/CWO: 05100979000
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, 1971 Edition, Summer 1973 Addenda
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
4" 2500# Flow Control Valve	Hammel-Dahl Conoflow	74/5798/001	N/A	3PV0100A	1977	Corrected	Yes
Upper Bellows Bonnet Assembly	Anderson, Greenwood & Co.	K99944-31-0002	N/A	RSO-1460-06	2006	Installed	Yes

7. Description of Work:

The upper bellows bonnet assembly (including the valve plug and upper bonnet studs) was replaced on the valve in plant location 3PV0100A. A VT-1 examination was performed on the replacement studs in accordance with NPS Order 800074494 with satisfactory results.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other ☐
- VT-2 performed per Procedure SO23-XVII-3.1.1 Pressure: ≥ 2250 psi Test Temp: ≥ 280 °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

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Meichler for Al Meichler Supervising ASME Codes Engineer Date: 11/11/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA 2081 California
National Board, State, Province, and Endorsements

Date 3/6/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770
Date: 11/11/08
Unit: 3
Sheet 1 of 1
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, California 92674-0128
Repair/Replacement Plan: ASME SECTION XI
DATA-0234
MO/CWO: 05100993000
3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770
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, 1971 Edition, Summer 1973 Addenda

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
4" 2500# Flow Control Valve	Hammel-Dahl Conoflow	74/5798/002	N/A	3PV0100B	1977	Corrected	Yes
Upper Bellows Bonnet Assembly	Anderson Greenwood & Co.	K99944-31-0001	N/A	RSO-1273-06	2006	Installed	Yes

7. Description of Work:

The upper bellows bonnet assembly (including the valve plug and upper bonnet studs) was replaced on the valve in plant location 3PV0100B. A VT-1 examination was performed on the replacement studs in accordance with NPS Order 800074494 with satisfactory results.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other ☐
- VT-2 performed per Procedure SO23-XVII-3.1.1 Pressure: ≥ 2250 psi Test Temp: ≥ 280 °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

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatn No: N/A

Expiration Date: N/A

Signed: My 85 for Al Meichler Supervising ASME Codes Engineer Date: 11/11/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08 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 CA2081 California
National Board, State, Province, and Endorsements

Date 3/6/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 06/13/08 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770 Unit: 3
2. Plant: San Onofre Nuclear Generating Station Repair/Replacement Plan: ASME SECTION XI
Address: P.O. Box 128, San Clemente, California 92674-0128 DATA-0581
3. Work Performed by: Southern California Edison Company MO/CWO: 05120826000
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770 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, 1971 Edition, Summer 1973 Addenda (valve); ASME Section III, Class 2, 1989 Edition, No Addenda (spindle).
- (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
1-1/2" 1500# Angle/Drain Valve	Control Components	35208-1*3	N/A	3LV0110A	1985	Corrected	Yes
Spindle (Plug)	Control Components	600685	N/A	RSO-0917-06, SB 637-N07718	2006	Installed	Yes

7. Description of Work:

Replaced the spindle on the valve in plant location 3LV0110A with an in-kind replacement spindle in accordance with ASME XI Data tag # 0581.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other ☐

See: AR 080300738-09

Pressure: ≥ 320 psi Test 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: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: May 85 For Al Meichler Supervising ASME Codes Engineer Date: 6/13/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period: 6/13/08 to 6/13/08, 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 CA2081 California
National Board, State, Province, and Endorsements

Date 6/13/08

RSO-0917-06(3)

Form N-2

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

**As Required by the Provisions of the ASME Code, Section III,
Not to Exceed One Day's Production**

Pg. 1 of 2

1. Manufactured and certified by C C I, 22591 Avenida Empresa, Rancho Santa Margarita, CA 92688
(name and address of Certificate Holder)
2. Manufactured for SOUTHERN CALIFORNIA EDISON, ROSEMEAD, CA 91770
(name and address of purchaser)
3. Location of installation SAN ONOFRE NUCLEAR GENERATING STATION, SAN ONOFRE, CA
(name and address)
4. Type 127200122 SB 637-NO7718 185,000 N/A 2006
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 NO ADDENDA 2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (div. 2 N/A Revision N/A Date N/A)
only (no.)
7. Remarks FOR 1.5" X 1.5" 1500 SPECIAL CLASS, LETDOWN CONTROL VALVE P/N 35208-1
CCI PROJECT #120062, S/O #233388
8. Nom. thickness N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) 15.66"
(in.)
9. When applicable, Certificate Holders' Data Reports are attached for each item of the this report.

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1.) <u>600685</u>	<u>N/A</u>
(2.)	
(3.)	
(4.)	
(5.)	
(6.)	
(7.)	
(8.)	
(9.)	
(10.)	
(11.)	
(12.)	
(13.)	
(14.)	
(15.)	
(16.)	
(17.)	
(18.)	
(19.)	
(20.)	
(21.)	
(22.)	
(23.)	
(24.)	
(25.)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26.)	
(27.)	
(28.)	
(29.)	
(30.)	
(31.)	
(32.)	
(33.)	
(34.)	
(35.)	
(36.)	
(37.)	
(38.)	
(39.)	
(40.)	
(41.)	
(42.)	
(43.)	
(44.)	
(45.)	
(46.)	
(47.)	
(48.)	
(49.)	
(50.)	

10. Design pressure 2485 PSIA psi Temp. 600 Deg. F Hydro test pressure N/A at temp. Deg. f

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11 (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

RSO-0917-06

(4)

Form N-2

FORM N-2 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. 600685 Through N/A

CERTIFICATE OF DESIGN

Design Specification certified by N/A P.E. State N/A Reg. no. N/A

Design Report * certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) SPINDLE conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2696 Expires August 14, 2006

Date 4-18-06 Name C.C.I. Signed [Signature] (NPT Certificate Holder) (Authorized representative)

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 HSBCT of HARTFORD, CONNECTICUT have inspected these items described in this Data Report on

4/25/06, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with ASME Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 4/25/06 Signed [Signature] Commissions LA 1494 (Authorized Inspector) (Nat'l Bd. (including endorsement) and state or prov., and no.)

**NOTE: DUE TO SIZE AND CONFIGURATION "NPT" CODE STAMPING IS NOT POSSIBLE. TRACEABILITY CAN BE MAINTAINED BY THE IDENTIFICATION AS NOTED BELOW.

*CCI SFC# - 600685
CCI P/N -127201122XX
MAT'L HT# - 289D
**MAT'L TYPE - SB 637-INC718

*ID on bottom of spindle
**ID on top of spindle

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, California 92674-0128
3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770
4. Identification of System: Safety Injection and Shutdown Cooling
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda

Date: 06/23/08

Unit: A

Repair/Replacement Plan: ASME SECTION XI
DATA-0207

MO/CWO: 06030303000

Type Code Symbol Stamp: N/A

Authorization No: N/A

Expiration Date: N/A

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 8" Relief Valve (L-Top)	Crosby Valve & Gage	N50061-00-0004	N/A	Removed from 2PSV9349 on MO 04060708	1984	Corrected	Yes
2-1/2" Adjusting bolt	Anderson, Greenwood & Co.	Ht. Code 6598H, S/N N91316-41-0016	N/A	RSO-1955-00, SA479 gr. 316	N/A	Installed	No

7. Description of Work:

Replaced the adjusting bolt with an in-kind replacement adjusting bolt on the valve that was removed from plant location 2PSV9349 on MO 04060708 in accordance with ASME XI Data flag - 0207. The valve was returned to warehouse stock.

Note: VT-2 examination to be performed after installation.

06030303-0

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ Other ☐

Pressure: N/A psi Test 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.

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FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Ray S. S. Al Meichla Supervising ASME Codes Engineer Date: 6/25/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period — to 7/31/08, 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 CA#2081 California
National Board, State, Province, and Endorsements

Date 7/31/08

06 030303 - 0

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 02/21/08 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770 Unit: 3
2. Plant: San Onofre Nuclear Generating Station Repair/Replacement Plan: GEN-206 R1
Address: P.O. Box 128, San Clemente, California 92674-0128 MO/CWO: 06121158000
3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770 Authorization No: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, Winter 1971 Addenda (Pump), 1980 Edition, Summer 1982 Addenda (Seal Cartridge).
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
36" Reactor Coolant Pump	Byron Jackson	701-N-0564	N/A	S31201MP002	1978	Corrected	Yes
Mechanical Seal Cartridge	Bingham-Williamette	1714880-3	1172	SO23-CART-#22	1986	Removed	Yes
Mechanical Seal Cartridge	Bingham-Williamette	1714880-5	1165	SO23-CART-#15, Rebuilt under MO 03011963	1986	Installed	Yes

7. Description of Work:

The RCP seal cartridge was replaced with a spare which had been rebuilt in accordance with the SONGS rebuild program. The removed seal cartridge was placed into the SONGS rebuild program to be rebuilt under MO 07091494.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other ☐

See: AR 061200754-25

Pressure: ≥ 2250 psi Test Temp: ≥ 330 °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

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: Myra S. Al Meichler Supervising ASME Codes Engineer Date: 3/12/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSBCT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/27/07 to 3/31/08, 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.

Edward J. Garton Commissions N & I California 1574
Inspector's Signature National Board, State, Province, and Endorsements

Date March 31, 2008

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 **Date:** 1/21/08 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. **Work Performed by:** Welding Services Inc.
Address: 2225 Skyland Court, Norcross, GA 30071 **Repair/Replacement Plan:** 006-07
3. **Plant:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **MO/CWO:** 07021195000
4. **Identification of System:** Reactor Coolant System (1201) **Type Code Symbol Stamp:** N/A
Authorization No: N/A
Expiration Date: N/A

5. (a) **Applicable Construction Code:** ASME Section III, Class 1, 1971 Edition, Summer 1971 Addenda (vessel)
(b) **Applicable Edition of Section XI Utilized for Repairs/Replacement Activity:** 1995 Edition; 1996 Addenda; Code Case N638-1 and N504-2/ Relief Request ISI-3-25 and ISI-3-28; Pressure testing performed per IWA-4540, 1998 Edition, 2000 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	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Pressurizer Vessel	CE	CE 70603	21496	S31201ME087	1976	See Description of Work below	Yes

7. **Description of Work:**

During the 2007 Unit 3 Mid/Cycle scheduled outage, this design change installed a full structural weld overlay on the surge nozzle safe end weld and safe end to pipe weld. This dissimilar metal weld is subject to PWSCC and is ASME Class 1, located on the bottom of the pressurizer vessel. On surge nozzle ISI Identification number (03-005-031), this safe end is austenitic stainless steel (P8), the existing weld filler is alloy 82/182 (F43 equivalent to 43) welded to low alloy (P3) vessel nozzle. A structural weld overlay repair was used to provide compressive residual stress in the nozzle surface to address a potential crack growth problem as a preemptive measure. The structural weld overlay was deposited with Inconel alloy UNS # (N06054) / ERNiCrFe-7A material using the ambient temper bead installation of the weld metal overlay which is resistant to both crack initiation and propagation. The new structural weld overlay was installed and it will remain in place for the design life of the repair that is defined by the evaluation.

Design Documents/Drawings: ECP 050701323-57

WSI Traveler Numbers: 104125-TR-001 and 104125-TR-004

Weld Data Sheet: OVL-031.

Reference Documents: Relief Request ISI-3-25 and ISI-3-28, Code Case: N638-1 and N504-2.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
Pressure: >= 2255 psi **Test Temp:** >= 525 °F
See AR: 070400863-04

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.

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

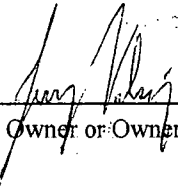
I certify that the statements made in the report are correct and that this conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:



Supervising ASME Codes Engineer

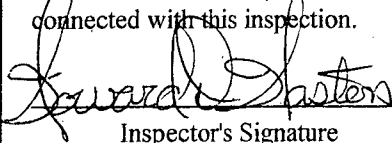
Date: 03/18/08

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 HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/18/07 to 3/27/08, 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

"N & I"

California

1574

(National Board, State, Province, and Endorsements)

Date

3/27/08

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 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, California 92674-0128
3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, California 91770
4. Identification of System: Chemical and Volume Control
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda

Date: 03/12/08

Unit: 3

Repair/Replacement Plan: ASME SECTION XI
DATA-0460

MO/CWO: 07111286000

Type Code Symbol Stamp: N/A

Authorization No: N/A

Expiration Date: N/A

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
1 1/2" x 2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59380-00-0013	N/A	3PSV9226	1985	Removed	Yes
1 1/2" x 2" Nozzle Type Relief Valve	Crosby Valve & Gage	N59380-00-0010	N/A	025-83508 (Rebuilt on MO 06100578)	1985	Installed	Yes

7. Description of Work:

Replaced the relief valve located in plant position 3PSV9226 with an in-kind rebuilt and tested spare. The replacement spare was rebuilt and tested under MO 06100578. The removed valve to be rebuilt under MO 07111564.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other ☐

See: AR 071101119-02

Pressure: ≥ 2400 psi

Test 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: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Meichler Supervising ASME Codes Engineer Date: 3/12/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSBCT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11/27/07 to 3/31/08, 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

N & I

California

1574

National Board, State, Province, and Endorsements

Date

3/31/08

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Date: 01/27/09 **Sheet 1 of 1**
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128
Repair/Replacement Plan: GEN-205p
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
WO: 800049501
4. **Identification of System:** Mechanical Penetration
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class I, 1971 Edition, S. 1 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Steam Generator	CE	72270-2	22265	S31301ME088P	1977	Corrected	Yes
1½" x 14¼" Stud (3)	Energy Steel	Heat # 98694	N/A	RSO-1116-97, SA540 gr.B24 Class 3	N/A	Installed	No
1½" x 14¼" Stud (1)	Energy Steel	Heat # 98694	N/A	RSO-1144-97, SA540 gr.B24 Class 3	N/A	Installed	No
1½" Hex Nut (3)	Westinghouse Electric	Heat # 7421869	N/A	RSO-2503-04, SA193 gr.B7	N/A	Installed	No
1½" Hex Nut (1)	Nove Machine Products	Heat # 72365-32-2 Heat Code RZW	N/A	RSO-1076-00, SA193 gr.B7	N/A	Installed	No

7. **Description of Work:** The hot and cold leg manways on steam generator 3E088 were removed and reinstalled to support the R3C15 outage activities. All studs and nuts were VT-1 examined upon removal. The stud and nut in hole locations #15 and #20 on the cold leg manway were found to be unacceptable for continued use and replaced in-kind. The stud and nut in hole locations #10 and #16 on the hot leg manway were found to be unacceptable for continued use and replaced in-kind. A VT-1 examination was performed on the new replacement studs and nuts with satisfactory results. A VT-2 examination and system leakage test was performed on both manway covers during start-up in accordance with procedure SO23-XVII-3.1.1

8. **Tests Conducted:** Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: ☒ Exempt: ☐ Other: ☐

Pressure: 2250 psi Test Temp: ≥280 °F

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:** RoR-025-03 reconciles the replacement studs were certified to the 1989 Edition, no addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears Supervising ASME Code Engineer Date: February 23, 2009

Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA2081 California
(National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 01/27/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** GEN-205p
3. **Work Performed by:** Southern California Edison Company **WO:** 800049503
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
4. **Identification of System:** Mechanical Penetration **Type Code Symbol Stamp:** N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class I, 1971 Edition, S. '71 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Steam Generator	CE	72270-1300	22264	S31301ME089P	1977	Corrected	Yes
1 1/2" x 1 1/4" Stud (2)	Energy Steel	Heat # 98694	N/A	RSO-1116-97, SA540 gr.B24 Class 3	N/A	Installed	No
1 1/2" Hex Nut (2)	Westinghouse Electric Co.	Heat # 7421869	N/A	RSO-2503-04, SA193 gr.B7	N/A	Installed	No

7. **Description of Work:** The hot and cold leg manways on steam generator 3E089 were removed and reinstalled to support the R3C15 outage activities. All studs and nuts were VT-1 examined upon removal. The stud in hole location #11 on the cold leg manway was found to be unacceptable for continued use. The stud and nut at this location were replaced in-kind. The stud in hole location #20 on the hot leg manway was found to be unacceptable for continued use. The stud and nut at this location were replaced in-kind. A VT-1 examination was performed on the new replacement studs and nuts with satisfactory results. A VT-2 examination and system leakage test was performed on both manway covers during start-up in accordance with procedure SO23-XVII-3.1.1

8. **Tests Conducted:** Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure: X Exempt: _____ Other: _____

Pressure: 2250 psi Test Temp: ≥280 °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:** RoR-025-03 reconciles the replacement studs that were certified to the 1989 Edition, no addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

Robert G. Sears

Supervising ASME Code Engineer

Date: February 23, 2009

Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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:

CA2081

California

(National Board, State, Province, and Endorsements)

Date

3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 01/08/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Unit:** 3
2. **Plant:** San Onofre Nuclear Generating Station **Repair/Replacement Plan:** ASME SECTION XI
Address: P.O. Box 128, San Clemente, CA 92672-0128 **DATA-0186**
3. **Work Performed by:** Southern California Edison Company **WO:** 800049590
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Type Code Symbol Stamp:** N/A
Authorization No: N/A
Expiration Date: N/A
4. **Identification of System:** Main Steam System
5. (a) **Applicable Construction Code:** ASME Section III, Class 2, 1974 Edition, S. 1974 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58787-01-0002	N/A	3PSV8402	1976	Removed	Yes
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58787-01-0037	N/A	ILN # 010000002051	1976	Installed	Yes
1-3/8"-8UN(3A) Inlet Studs (12)	Mackson Inc	Heat # 772785 Heat Code "BPU"	N/A	SA193 Gr.B7 RSO-0831-08-01	N/A	Installed	No
1-3/8" Heavy Hex Nuts (12)	Mackson Inc	Ht.# M82952 Heat Code "AUP"	N/A	RSO-0829-08 SA194 Gr.7	N/A	Installed	No

7. Description of Work:

The main steam safety valve located in plant position 3PSV8402 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58787-01-0037). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The inlet studs were fabricated under work order 800066641. The removed valve was placed in the rebuild program for refurbishment. A VT-2 examination and system leakage test was performed when valve return to service.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
Pressure: 995 psia **Test 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:** RoRs 002-03 and 003-03 reconciles the replacement studs and nuts, which were certified to the 1989 Edition, no add.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A.

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer Date: February 27, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA 2081 California
(National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 01/08/09 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: ASME SECTION XI
DATA-0191
3. Work Performed by: Southern California Edison Company WO: 800049658
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
4. Identification of System: Main Steam System
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S. 1974 addenda
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58787-01-0023	N/A	3PSV8407	1976	Removed	Yes
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58787-01-0001	N/A	LEN # 010000002051	1976	Installed	Yes
1-3/8" UN(3A) Inlet Studs (12)	Mackson Inc	Heat # 772785 Heat Code "BPU"	N/A	RSO-0831-08-01 SA193 Gr.B7	N/A	Installed	No
1-3/8" Heavy Hex Nuts (12)	Mackson Inc	Ht.# M82952, Heat Code "AUP"	N/A	RSO-0829-08, SA194 Gr.7	N/A	Installed	No

7. Description of Work:

The main steam safety valve located in plant position 3PSV8407 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58787-01-0001). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The inlet studs were fabricated under work order 800066641. The removed valve was placed in the rebuild program for refurbishment. A VT-2 examination and system leakage test was performed when valve returned to service.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure: X Exempt: _____ Other: _____
Pressure: 995 psia Test 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:** RoRs 002-03 and 003-03 reconciles the replacement studs and nuts, which were certified to the 1989 Edition, no add.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer

Date: February 23, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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

CA2081

California

(National Board, State, Province, and Endorsements)

Date

3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Date: 01/08/09 **Sheet 1 of 1**
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128
Repair/Replacement Plan: ASME SECTION XI
DATA-0192
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
WO: 800049664
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
4. **Identification of System:** Main Steam System
5. (a) **Applicable Construction Code:** ASME Section III, Class 2, 1974 Edition, S. 1974 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58787-01-0011	N/A	3PSV8408	1976	Removed	Yes
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58787-01-0038	N/A	ILN # 010000002051	1976	Installed	Yes
1-3/8" x 9" Inlet Studs (12)	Mackson Inc.	Heat # 772785 Heat Code "BPU"	N/A	RSO-0831-08-01 SA193 Gr.B7	N/A	Installed	No
1-3/8" Heavy Hex Nuts (12)	Mackson Inc.	Ht.# M82952, Heat Code "AUP"	N/A	RSO-0829-08 SA194 Gr.7	N/A	Installed	No

7. Description of Work:

The main steam safety valve located in plant position 3PSV8408 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58787-01-0038). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The studs were fabricated under work order: 800066641. The removed valve was placed in the rebuild program for refurbishment. A VT-2 examination and system leakage test was performed after valve returned to service.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
Pressure: 995 psia Test 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: RoRs 002-03 and 003-03 reconciles the replacement studs and nuts, which were certified to the 1989 Edition, no add.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol/Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer Date: February 23, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA2081 California
(National Board, State, Province, and Endorsements)

Date: 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 01/08/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Unit:** 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** ASME SECTION XI DATA-0193
3. **Work Performed by:** Southern California Edison Company **WO:** 800049669
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
4. **Identification of System:** Main Steam System **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, S. 1974 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda
6. **Identification of Components:**

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58787-01-0036	N/A	3PSV8409	1976	Removed	Yes
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58787-01-0007	N/A	LEN # 010000002051	1976	Installed	Yes
1-3/8"-8UN(3A) Inlet Studs (3)	Mackson Inc.	Heat # 772785 Heat Code BPU	N/A	RSO-0831-08-01 SA193 Gr.B7	N/A	Installed	No
1-3/8" x 9" Inlet Studs (9)	Mackson Inc.	Heat # 11503850 Heat Code "AQQ"	N/A	RSO SA193 Gr.B7	N/A	Installed	No
1-3/8" Heavy Hex Nuts (12)	Mackson Inc.	Ht.# M82952, Heat Code "AUP"	N/A	RSO-0829-08 SA194 Gr.7	N/A	Installed	No

7. Description of Work:

The main steam safety valve located in plant position 3PSV8409 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58787-01-0007). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The studs were fabricated under work orders 800066641(3) and 04031771(9). The removed valve was placed in the rebuild program for refurbishment. A VT-2 examination and system leakage test was performed when valve returned to service.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
Pressure: 995 psia Test 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: RoRs 002-03 and 003-03, reconciles the replacement studs and nuts, which were certified to the 1989 Edition, no add.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer Date: February 23, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA2081 California
(National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 01/08/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Unit:** 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** ASME SECTION XI DATA-0191
3. **Work Performed by:** Southern California Edison Company **WO:** 800049709
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
4. **Identification of System:** Main Steam System **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, S. 1974 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda
6. **Identification of Components:**

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 10" Main Stem Safety Valve	Crosby Valve & Gage	N58787-01-0003	N/A	3PSV8416	1976	Removed	Yes
6" x 10" Main Stem Safety Valve	Crosby Valve & Gage	N58787-01-0020	N/A	ILN # 010000002051	1976	Installed	Yes
1-3/8"-8UN(3A) Inlet Stud (2)	Mackson Inc.	Heat # 4909848 Heat Code 1VK	N/A	RSO-0412-01 SA193 Gr.B7	N/A	Installed	No
1-3/8"-8UN(3A) Inlet Stud (10)	Mackson Inc.	Heat # 11503850 Heat Code AQQ	N/A	RSO-1025-04 SA193 Gr.B7	N/A	Installed	No
1-3/8" Heavy Hex. Nuts (12)	Mackson Inc.	Ht. # M82952 Heat Code "AUP"	N/A	RSO-0829-08 SA194 Gr.7	N/A	Installed	No

7. Description of Work:

The main steam safety valve located in plant position 3PSV8416 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58787-01-0020). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The studs were fabricated under work orders 01061346 and 04031771. The removed valve was placed in the rebuild program for refurbishment. A VT-2 examination and system leakage test was performed when valve returned to service.

8. **Tests Conducted:** Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure: X Exempt: _____ Other: _____
- Pressure:** 995 psia **Test 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:** RoRs 002-03 and 003-03 reconciles the replacement studs and nuts, which were certified to the 1989 Edition, no add.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer Date February 23, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT, have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA2081 California
(National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 01/08/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Unit:** 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** ASME SECTION XI DATA-0192
3. **Work Performed by:** Southern California Edison Company **WO:** 800049712
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Type Code Symbol Stamp:** N/A
4. **Identification of System:** Main Steam System **Authorization No:** N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class 2, 1974 Edition, S. 1974 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 10" Main Stem Safety Valve	Crosby Valve & Gage	N58787-01-0006	N/A	3PSV8417	1976	Removed	Yes
6" x 10" Main Stem Safety Valve	Crosby Valve & Gage	N58787-01-0004	N/A	ILN # 010000002051	1976	Installed	Yes
1-3/8"-8UN(3A) Inlet Stud (2)	Mackson Inc.	Heat # 4909848 Heat Code 1VK	N/A	RSO-0412-01 SA193 Gr.B7	N/A	Installed	No
1-3/8"-8UN(3A) Inlet Studs (10)	Mackson Inc.	Heat # 11503850 Heat Code AOG	N/A	RSO-1025-04 SA193 Gr.B7	N/A	Installed	No
1-3/8" Heavy Hex Nuts (12)	Mackson Inc.	Ht. # M82952 Heat Code "AUP"	N/A	RSO-0829-08 SA194 Gr.7	N/A	Installed	No

7. Description of Work:

The main steam safety valve located in plant position 3PSV8417 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58787-01-0004). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The studs were fabricated under work orders 01061346 and 04031771. The removed valve was placed in the rebuild program for refurbishment. A VT-2 examination and system leakage test was performed when valve was returned to service.

8. **Tests Conducted:** Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure: X Exempt: _____ Other: _____
Pressure: 995 psia Test 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.

9. Remarks: RoRs 002-03 and 003-03 reconciles the replacement studs and nuts, which were certified to the 1989 Edition, no add.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer Date: February 23, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CAZ081 California
(National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 1/21/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Unit:** 3
2. **Plant:** San Onofre Nuclear Generating Station **Repair/Replacement Plan:** GEN-205s
Address: P.O. Box 128, San Clemente, CA 92672-0128 **WO:** 800050994
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Type Code Symbol Stamp:** N/A
4. **Identification of System:** Main Steam System **Authorization No:** N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class 1, 1971 Edition, S. '71 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Steam Generator	Combustion Engineering	72270-2	22263	S34301ME088	1977	Corrected	Yes
1"-8N-2B Handhole Nut (1)	ABB Combustion Engineering	Heat # 11472	N/A	RSO-2991-91	N/A	Installed	No

7. **Description of Work:** The east handhole cover on Steam Generator 3E088 was removed to support inspection and cleaning. The threads on one (1) nut was found damaged and required replacement. The VT-2 examination and pressure test was performed in conjunction with procedure SO23-XVII-3.2.2.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
Pressure: 1000 psi Test 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 nut was certified to the 1980 Edition, W.'82 addenda as allowed per reconciliation 002-05.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears Supervising ASME Code Engineer Date: February 11, 2009
Robert G. Sears
 Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/24/08 to 12/10/08, 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. A. Zeng Commissions CA2093 California
 Inspector's Signature (National Board, State, Province, and Endorsements)

Date 2/17/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 02/11/2009 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: ASME SECTION XI
DATA-0207
3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 WO: 800052696
4. Identification of System: Safety Injection / Shutdown Cooling System 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, Summer '74 addenda
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 8" Relief Valve	Crosby Valve & Gage	N60061-00-0002	N/A	3PSV9349	1978	Removed	Yes
6" x 8" Relief Valve	Crosby Valve & Gage	N60061-00-0004	N/A	Mat-Code 026-44409 Rebuilt under MO 06030303	1984	Installed	Yes

7. Description of Work:

Replaced the relief valve in plant position 3PSV9349 with a rebuilt and tested spare valve (S/N: N60061-00-0004). The removed valve (S/N: 60061-00-0002) was placed into the SONGS rebuild program to be refurbished under NMO 800197450.

A VT-2 examination and system leakage test was performed when returned to service.

8. Tests Conducted: Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
Pressure: 344 psi Test 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.

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears

Supervising ASME Code Engineer

Date: February 11, 2009

Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/31/08 to 11/26/08, 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.

WAZCMag

Inspector's Signature

Commissions

CA2093California

(National Board, State, Province, and Endorsements)

Date 2/16/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Date: 01/27/09
Sheet 1 of 1
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128
Repair/Replacement Plan: ASME XI DATA-0609, GEN-239 Rev.1
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
WO: 800051005
4. **Identification of System:** Mechanical Penetration
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, S. '74 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Mechanical Penetration # 34	SCE	N/A	N/A	S31220MX034	N/A	Corrected	No
7/8"-9UNC x 36" Stud Bolt (2)	Mackson Inc.	Heat # 746129	N/A	RSO-0984-06, SA193 gr.B7	N/A	Installed	No
7/8"-9UNC Nut (24)	Mackson Inc.	Heat # C91060 Heat Code "IQB"	N/A	RSO-1690-04, SA194 gr.2H	N/A	Installed	No

7. **Description of Work:** The outside flange on mechanical penetration 3MX34 required replacement of the bolting materials when reassembled at completion of the R3C15 outage. (12) stud bolts, 5.5" long were fabricated from (2) lengths of 36" all-thread material in accordance with the requirements of RRP GEN-239 Rev.1. A LLRT of the penetration was performed in accordance with procedure SO23-3-3.51.1 when reassembled.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure:___ Exempt:___ Other: X
Pressure:___ N/A ___ psi **Test 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 all-thread material was certified to the 1989 Edition, no addenda as allowed per RoR-002-03 R1. The nuts were certified to 1989 Edition, no addenda as allowed per RoR-003-03 R1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears Supervising ASME Code Engineer Date: February 11, 2009
Robert G. Sears
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/17/08, 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.

MAZCH Commissions CA2093 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date 2/23/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company Date: 12/8/08
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: 071000461-8
3. Work Performed by: Southern California Edison Company WO: 800057549, 800166195
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
4. Identification of System: Reactor Coolant System
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S. '73 addenda (valves)
ASME Section III, Class 1, 1974 Edition, S. '74 addenda (piping)

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
3/4" Globe Valve	Kerotest Mfg. Corp.	TND4-19	N/A	S31201MR227	1976	Removed	Yes
3/4" Globe Valve	Kerotest Mfg. Corp.	TND4-16	N/A	S31201MR037	1976	Removed	Yes
3/4" Globe Valve	Flowserve Corp.	31AXE	N/A	RSO-2214-03 (S31201MR227)	2003	Installed	Yes
3/4" Globe Valve	Flowserve Corp.	E385-1-4	N/A	RSO-1245-01 (S31201MR037)	2001	Installed	Yes
3/4" Sch.160 Pipe	Energy & Process Corp.	Heat # 37680	N/A	RSO-0834-08 SA376 Tp316	N/A	Installed	No
3/4" Sch.160 Elbow	Consolidated Pipe Supply	Heat # MQUF-1	N/A	ILN: 010000000412 SA403 WP316	N/A	Installed	No

7. Description of Work: Double vent valve assembly S31201MR037 and MR227 was replaced with in-kind valves and piping materials due to reported boric acid leak at pipe cap.

NMO 800057549 fabricated the vent valve assembly in the shop in accordance with weld records WR3-08-013, -014, -015, and -042.

NMO 800166195 installed the fabricated vent valve assembly in accordance with WR3-08-043. All NDE examinations were performed in conjunction with the weld records.

Note: VT-2 Examination and System Leakage Test performed in accordance with SO23-XVIII-3.1.1

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure: X Exempt: _____ Other: _____
Pressure: 2250 psi Test Temp: 350 °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

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer

Date: February 23, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/09 to 11/14/09, 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 CA 2081 California
(National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 12/9/08 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770-
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** ASME SECTION XI
 DATA - 0247
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **WO:** 800056317
4. **Identification of System:** Safety Injection System **Type Code Symbol Stamp:** N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class 1, 1971 Edition, S. '73 addenda
 (b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
2" 1513# Globe Valve	Kerotest Mfg Co.	CAQ12-2	N/A	S31204MU068	1980	Corrected	Yes
Bonnet	Flowserve Corp.	N/A	N/A	Heat # 240937 Trace # 28129-1	N/A	Installed	No

7. **Description of Work:** Valve S31204MU068 was reworked to correct seat leakage. The existing bonnet was found to be unsat. for continued use and was replaced with an in-kind replacement bonnet.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
 Pressure: 1485 psi Test 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: ASME III, Class 1 valve installed in a ASME III, Class 2-system.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

For Al Meichler
Owner or Owner's Designee, Title

Supervising ASME Code Engineer

Date: 12/9/08

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/16/08 to 12/2/08, 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.

WAZONG
Inspector's Signature

Commissions

CA 7093

California

(National Board, State, Province, and Endorsements)

Date

2/5/2009

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Div. 1

RSO-2214-03 7

Pg. 1 of 1

1. Manufactured by Flowserve Corporation, 1900 S. Saunders St., Raleigh, NC 27603
(Name and Address of N-Certificate Holder)

2. Manufactured for EDISON MATERIAL SUPPLY LLC, P.O. BOX 700, ROSEMEAD, CA. 91770
(Name and Address of Purchaser or Owner)

3. Location of Installation SAN ONOFRE PLANT, SAN CLEMENTE, CA. 92672
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 3/4" Outlet Size 3/4"
(inch) (inch)

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1513 YGB	30AXE	N/A	SC-D-9954-BW16-(1) / H	1	N/A	2003
(2)	1513 YGB	31AXE	N/A	SC-D-9954-BW16-(1) / H	1	N/A	2003
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. 3/4" Y GLOBE VALVE
(Brief description of service for which equipment was designed)

23812

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513 (1)

7. Cold Working Pressure 3631 psi at 100 °F (Temperature)

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
FS2	SA182 GR F316	FLOWSERVE	BODY
56539	SA479 T316	DUBOSE	BONNET
56457	SA479 T316	DUBOSE	DISC
317500	SA105	FLOWSERVE	YOKE

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

4

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 701 First Street, Williamsport, PA 17704
(name and address of N Certificate Holder)

2. Manufactured for Edison Material Supply, P.O. Box 700, Rosemead, CA 91770

(name and address of Purchaser)

3. Location of installation San Onofre Nuclear Station, 14300 Mesa Road, San Clemente, CA 92672

5. Location of installation _____ (name and address)

4. Model No., Series No., or Type Y-Globe Drawing 72593593 Rev. H CRN N/A

1971	Summer 1973	1	N/A
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5. ASME Code, Section III, Division 1: _____
(edition) (addenda date) (class) (Code Case no.)

6. Pump or valve Valve Nominal inlet size 3/4" Outlet size 3/4"

0. Pump or Valve (in.) (in.)

7. Material: Body SA182-F316 Bonnet SA479-316 Disk SA479-316 Bolting N/A

[illegible]

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(1/2/88). This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 6/03.

TEST AVAILABLE COPY

BEST AVAILABLE COPY

4cm
17/3/01

EO-1245-01 8 of 66

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. E385R-1-1 thru -1-4

B. Design conditions 2485 (pressure) psi 650 (temperature) °F or valve pressure class 1513 (1)
9. Cold working pressure 3631 psi at 100°F
10. Hydrostatic test 5450 psi Disk differential test pressure 3995 psi
11. Remarks: 3/4"-1513#-Y-Globe Valve
Yoke, Material SA105, Serial Nos. 232, 233, 234 and 235

CERTIFICATION OF DESIGN

Design Specification certified by Kenneth E. Morgan P.E. State CA Reg. no. QU004963
Design Report certified by Ronald S. Farrell P.E. State PA Reg. no. 035216-E

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712

Expires 04/15/04

Date 5-30-01 Name Flowserve Corporation
(N Certificate Holder)

Signed

[Signature]
(Authorized representative)

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 Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 3-300th 619-01, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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 619-01 Signed [Signature] Commissions Pennsylvania 2392
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. no.)

(1) For manually operated valves only.

you 8/1/01
BEST AVAILABLE COPY

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

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

Date: 12/05/08

Sheet 1 of 1

Unit: 3

2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: ASME Section XI
Data-0053, RRP-002-08, RRP-012-08, and RRP-800191029-0040

3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800063968, 800084423, 800190035, 800191029

4. Identification of System: Reactor Coolant System

Type Code Symbol Stamp: N/A

Authorization No: N/A

Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class I, 1971 Edition, S. '73 addenda

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
12" 1500# Check Valve	Anchor/Darling Co	IN-186		S31204MU029	1976	Corrected	Yes
Closure Plugs (2)	Energy & Process Corp.	Heat #416124	N/A	RSO-0742-06 SA479 Type 316/316L	N/A	Installed	No

7. Description of Work: The valve was overhauled to correct leak-by. The following activities were performed in conjunction with the valve overhaul.

1. NMO 800063968 disassembled / reassembled valve. Performed VT-3 examination of internal surfaces of valve body and a VT-1 examination of the hinge pin cover studs and nuts.
2. NMO 800190035 machined new hinge pin closure plugs (2) in accordance with RRP-012-08.
3. NMO 800191029 machined the valve disc hinge pin bores to remove taper in accordance with RRP 800191029-0040.
4. NMO 800084423 installed and seal welded the hinge pin closure plugs in accordance with WR3-08-035 and RRP-002-08 in conjunction with valve reassembly.
5. A VT-2 examination and system leakage test was performed in conjunction with procedure SO23-XVII-3.1.1.

8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: X Exempt: Other:

Pressure: 2250 psi Test Temp: ≥280 °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:** Closure plug material certified to ASME III; Class 1, 1974 Edition, S. '74 addenda, acceptable per report of reconciliation (RoR) 024-03.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

Robert G. Sears

Supervising ASME Code Engineer

Date: February 24, 2009

Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA 2081 California
(National Board, State, Province, and Endorsements)

Date 3/3/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 02/11/2009 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: C
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128
Repair/Replacement Plan: GEN-266
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
WO: 800066641
4. **Identification of System:** Main Steam System
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, S. '74 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda
6. **Identification of Components:**

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
(20) 1-3/8" 8UN(3A) x 36" long all-thread material	Mackson Inc.	Heat # 772785 Heat Code "BPU"	N/A	RSO-0831-08-01 SA193 gr B7	N/A		No

7. Description of Work:

(60) spare replacement inlet studs for the main steam safety valves were fabricated in accordance with the requirements of RRP-GEN-266 Rev.0. This fabrication process involved cutting the (20) pieces of 36" long all-thread (heat # 772785) to stud lengths of approximately 9-5/8" and machining per detail 5 of drawing SO23-507-3-17. The finished studs were marked with heat trace code, material grade, material code, and work order number.

8. Tests Conducted: None Required

Pressure: N/A **psi** **Test 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 initiated and dated by the Owner or owner's designee and the AIA.

FORM NIS-2 (back)

9. **Remarks:** RoR-002-03 reconciles the replacement stud material which is certified to ASME III, Class 2, 1989 Edition, no add.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears Supervising ASME Code Engineer Date: February 23, 2009
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA2081 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 02/18/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Unit:** 3
2. **Plant:** San Onofre Nuclear Generating Station **Repair/Replacement Plan:** ASME SECTION XI
Address: P.O. Box 128, San Clemente, CA 92672-0128 **DATA-0173**
3. **Work Performed by:** Southern California Edison Company **WO:** 800071005, 800141490
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Type Code Symbol Stamp:** N/A
Authorization No: N/A
Expiration Date: N/A
4. **Identification of System:** Reactor Coolant System
5. (a) **Applicable Construction Code:** ASME Section III, Class 1, 1974 Edition, no addenda - Valve
ASME Section III, Class 1, 1974 Edition, S. '74 addenda -Bolting
- (b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 8" Pressurizer Safety Valve	Dresser Flow Control	BU06253	N/A	3PSV0201	1980	Removed	Yes
6" x 8" Pressurizer Safety Valve	Dresser Flow Control	BS03209	N/A	RSO-1610-08	1978	Installed	Yes
2"-8UN x 14½" Stud Bolt (8)	Mackson Inc.	Heat # 11736340 Trace Code "BMY"	N/A	RSO-1552-07 SA193 Gr.B7	N/A	Installed	No
2"-8UN Heavy Hex Nut (8)	Mackson Inc.	Heat # M89768 Lot Code "H003"	N/A	RSO-1552-07 SA194 Gr.7	N/A	Installed	No

7. Description of Work:

Pressurizer safety valve located in plant position 3PSV0201 was replaced with a refurbished and tested spare valve (s/n BS03209) as a preventative maintenance action. (8) inlet flange stud bolts and (8) inlet flange heavy hex nuts were replaced in-kind in conjunction with the valve replacement. A VT-1 inspection was performed on all the new and reused bolting materials.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___

Pressure: 2250 psia **Test Temp:** ≥280 °F (VT-2 performed per SO23-XVII-3.1.1)

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

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Roger Holmes for AB Merichlet Supervising ASME Code Engineer Date: 3/3/09
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/12/08 to 11/14/08, 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 CA 2081 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date 3/3/09

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 **Date:** 2/23/2009 **Sheet 1 of 2**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plans:** 003-08
3. **Work Performed by:** Welding Services Inc. **NMO:** 800077981
Address: 2225 Skyland Ct., Norcross, GA 30071
4. **Identification of System:** Reactor Coolant System
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** (original vessel code) ASME III, Class 1, 1971 Edition, Summer 1971 Addenda; (heaters) ASME III, Class 1, 1986 Edition, No Addenda and Code Case N-405-1, and Subsection NH, 1998 Edition (elevated temperature service).
(b) **Applicable Edition of Section XI Utilized for Repairs/Replacement Activity:** 1995 Edition; 1996 Addenda; pressure testing was performed per IWA-4540, 1998 Edition, 2000 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	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Pressurizer Vessel	G.E.	CE 70603	21496	S31201ME087	1977	Corrected	Yes
Heater 2ME603	Areva NP Inc.	328	N/A	RSO-1745-07-01	2008	Installed	Yes
Heater 2ME606	Areva NP Inc.	308	N/A	RSO-1745-07-01	2008	Installed	Yes
Heater 2ME613	Areva NP Inc.	307	N/A	RSO-1745-07-01	2008	Installed	Yes
Heater 2ME616	Areva NP Inc.	325	N/A	RSO-1745-07-01	2008	Installed	Yes
Heater 2ME621	Areva NP Inc.	304	N/A	RSO-1745-07-01	2008	Installed	Yes
Heater 2ME627	Areva NP Inc.	327	N/A	RSO-1745-07-01	2008	Installed	Yes

7. **Description of Work:** New replacement pressurizer heaters were installed in 6 locations. The replacement work was performed by Welding Services, Inc (WSI) in accordance with WSI's QA and Welding Programs, and Edison's ASME Section XI Program. Weld filler material was supplied by WSI.

Reference Documents: WSI Traveler # 104534-TR-013, Weld Data Sheets HW-101 thru HW-106

8. **Tests Conducted:** System Leakage Test and VT-2 Examination performed at NOP/NOT per SO23-XVII-3.1.1

Test Pressure: 2250 psi

Test Pressure: $\geq 280^{\circ}\text{F}$

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

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this 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 Meichler Supervising ASME Code Engineer Date: 2/24/09
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 HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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. A. Chug Commissions California CA2093
Inspector's Signature (National Board, State, Province, and Endorsements)

Date 2/27, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company - Date: 02/13/09 - Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: 004-08
3. Work Performed by: Southern California Edison Company WO: 800078112
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
4. Identification of System: Reactor Coolant System (1201) Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, Summer 1974 Addenda
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition, 1996 Addenda
Code Case N638-1 and N504-2 / Relief Request ISI-3-27 and ISI-3-28. Pressure testing performed IAW 4540,
1998 Edition, 2000 Addenda.

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
(12") Hot Leg Surge Nozzle	Pullman Inc.	S3-RC-015-002 S/N 7383	N/A	S3-1201-ML-015 Sht. 1	1978	Corrected	Yes

7. Description of Work: During the 2008 Unit 3 Cycle 15 scheduled refueling outage, this design change installed a full structural weld overlay on the (12") Hot Leg Surge Nozzle. This dissimilar metal weld is subject to PWSCC and is an ASME III, Class 1 pressure boundary. The ISI identification number is (03-007-010). The safe end is austenitic stainless steel (P8) along with the existing pipe. The (DMW) filler metal is alloy 82/182 (F43 equivalent to P43) welded to a carbon steel forging (P1) nozzle. A austenitic stainless steel (ER308L) buffer layer has been applied to the safe end and pipe base metal. The buffer layer is designed to reduce the possibility of hot cracking due to the potential presence of surface impurities of the existing safe end and pipe base material. The structural weld overlay has been deposited with Inconel alloy 52M, UNS # (N06054), (ERNiCrFe-7A) filler metal using the ambient temper bead installation which is resistant to both crack initiation and propagation. Once the structural weld overlay is installed it will remain in place for the design life of the repair that is defined by the evaluation.

Design Documents / Drawings : ECP 070500111-2

WSI Traveler # 104534-TR-005

Weld Data Sheet: Hot Leg Surge Nozzle-Weld ID: DMW 03-007-010 / WOL-101

Reference Documents: Relief Request ISI-3-27 and ISI-3-28, / Code Case N638-1 and N504-2

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure: X Exempt: _____ Other: _____
Pressure: ≥ 2250 psi Test Temp: ≥ 280 °F

VT-2 examination performed in conjunction with procedure SO23-XVII-3.1.1

FORM NIS-2 (back)

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached).

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] For M. Meichler Supervising ASME Code Engineer Date: 2/24/09
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA2093 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date 2/27/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 02/13/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** 005-08
3. **Work Performed by:** Southern California Edison Company **WO:** 800078112
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
4. **Identification of System:** Reactor Coolant System (1201)
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class 1, 1974 Edition, Summer 1974 Addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition, 1996 Addenda
Code Case N638-1 and N504-2 / Relief Request ISI-3-27 and ISI-3-28. Pressure testing performed IAW 4540,
1998 Edition, 2000 Addenda.

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
(16") Shutdown Cooling Nozzle	Pullman Inc.	S3-RC-016-001 S/N: N-4659	N/A	S3-1201-ML-016 Sht. 1	1979	Corrected	Yes

7. **Description of Work:** During the 2008 Unit 3 Cycle 15 scheduled refueling outage, this design change installed a full structural weld overlay on the (16") Shutdown Cooling Nozzle. This dissimilar metal weld is subject to PWSCC and is an ASME III, Class 1 pressure boundary. The ISI identification number is (03-007-009). The safe end is austenitic stainless steel (P8) along with the existing pipe elbow. The (DMW) filler metal is alloy 82/182 (F43 equivalent to P43) welded to a carbon steel forging (P1) nozzle. A austenitic stainless steel (ER308L) buffer layer has been applied to the safe end and pipe elbow base metal. The buffer layer is designed to reduce the possibility of hot cracking due to the potential presence of surface impurities of the existing safe end and pipe base material. The structural weld overlay has been deposited with Inconel alloy 52M, UNS # (N06054), (ERNiCrFe-7A) filler metal using the ambient temper bead installation which is resistant to both crack initiation and propagation. Once the structural weld overlay is installed it will remain in place for the design life of the repair that is defined by the evaluation.

Design Documents / Drawings : ECP 070500111-2

WSI Traveler # 104534-TR-017

Weld Data Sheet: Hot Leg Shutdown Cooling Nozzle-Weld ID: DMW 03-007-008 / WOL-102

Reference Documents: Relief Request ISI-3-27 and ISI-3-28, / Code Case N638-1 and N504-2

8. **Tests Conducted:** Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: X Exempt: ☐ Other: ☐
Pressure: ≥ 2250 psi **Test Temp:** ≥ 280 °F

VT-2 examination performed in conjunction with procedure SO23-XVII-3.1.1

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

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

Al Meichler
Owner or Owner's Designee, Title

Supervising ASME Code Engineer

Date: 2/24/09

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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.

MAZCH
Inspector's Signature

Commissions

CA2093

California

(National Board, State, Province, and Endorsements)

Date

2/27/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 02/13/09 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **Unit:** 3
2. **Plant:** San Onofre Nuclear Generating Station **Repair/Replacement Plan:** 006-08
Address: P.O. Box 128, San Clemente, CA 92672-0128 **WO:** 800078112
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
4. **Identification of System:** Reactor Coolant System (1201) **Type Code Symbol Stamp:** N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class 1, 1974 Edition, Summer 1974 Addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition, 1996 Addenda
Code Case N638-1 and N504-2 / Relief Request ISI-3-27 and ISI-3-28. Pressure testing performed IAW 4540,
1998 Edition, 2000 Addenda.

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
(2") Hot Leg Drain Nozzle	Bechtel Corp.	S3-RC-018-01A	N/A	S3-1201-ML-018 Sht. 1	1980	Corrected	Yes

7. **Description of Work:** During the 2008 Unit 3 Cycle 15 scheduled refueling outage, this design change installed a full structural weld overlay on the (2") Hot Leg Drain Nozzle. This dissimilar metal weld is subject to PWSCC and is an ASME III, Class 1 pressure boundary. The ISI identification number is (03-007-011). The safe end is austenitic stainless steel (P8) along with the existing pipe. The (DMW) filler metal is alloy 82/182 (F43 equivalent to P43) welded to a carbon steel forging (P1) nozzle. A austenitic stainless steel (ER308L) buffer layer has been applied to the safe end and pipe base metal. The buffer layer is designed to reduce the possibility of hot cracking due to the potential presence of surface impurities of the existing safe end and pipe base material. The structural weld overlay has been deposited with Inconel alloy 52M, UNS # (N06054), (ERNiCrFe-7A) filler metal using the ambient temper bead installation which is resistant to both crack initiation and propagation. Once the structural weld overlay is installed it will remain in place for the design life of the repair that is defined by the evaluation.

Design Documents / Drawings : ECP 070500111-2

WSI Traveler # 104534-TR-007

Weld Data Sheet: Hot Leg Drain Nozzle-Weld ID: DMW 03-007-011 / WOL-103

Reference Documents: Relief Request ISI-3-27 and ISI-3-28, / Code Case N638-1 and N504-2

8. **Tests Conducted:** Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: X Exempt: ☐ Other: ☐
Pressure: ≥ 2250 psi Test Temp: ≥ 280 °F

VT-2 examination performed in conjunction with procedure SO23-XVII-3.1.1

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.

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: My SO for Al Meichler Supervising ASME Code Engineer
Owner or Owner's Designee, Title

Date: 2/24/09**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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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.

WAZCH
Inspector's Signature

Commissions

CA 2093California

(National Board, State, Province, and Endorsements)

Date

2/27/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 12/9/08 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** 800083097-0200
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **WO:** 800083097
4. **Identification of System:** Safety Injection System **Type Code Symbol Stamp:** N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class 1, 1971 Edition, S. '73 addenda (Valve)
ASME Section III, Class 1, 1974 Edition, S. '74 addenda (Weld B)
ASME Section III, Class 2, 1974 Edition, S. '74 addenda (Weld A)
- (b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
3" 1500# Tilt Disc Check Valve	Anchor/Darling Valve Co.	IN-243	N/A	S31204MU018	1977	Removed	Yes
3" 1500# Tilt Disc Check Valve	Flowserve Corp.	BD671	N/A	RSO-1897-07	2007	Installed	Yes

7. **Description of Work:** Check valve S31204MU018 was replaced in accordance with NECP 800150102 due to excessive seat leakage. The valve replacement includes the following operations:

- 1) Welding and NDE were performed in accordance with weld records WR3-08-045 and WR3-08-046.
- 2) A PDI-UT examination was performed on the Class 1 weld (WR3-08-046) in accordance with ISI Program.
- 3) A VT-1 examination was performed on the hinge pin-bolting in accordance with ISI Program.
- 4) A VT-2 Examination and System Leakage Test was performed at NOP.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
Pressure: 1485 psi Test 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: N/A

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: My Son for Al Meichler Supervising ASME Code Engineer Date: 12/9/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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.

meichler
Inspector's Signature

Commissions CA2081 California
(National Board, State, Province, and Endorsements)

Date 3/3/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 12/10/08 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA. 91770
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station **Repair/Replacement Plan:** GEN-206
Address: P.O. Box 128, San Clemente, CA 92672-0128
WO: 800160365
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
4. **Identification of System:** Reactor Coolant System
5. (a) **Applicable Construction Code:** ASME Section III, Class I, 1971 Edition, W. '71 addenda (Pump)
ASME Section III, Class I, 1980 Edition, S. '82 Edition (Mech. Seal)
- (b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda
6. **Identification of Components:**

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
36" Reactor Coolant Pump	Byron Jackson	701-N-0563	N/A	S31201MP001	1979		Yes
RCP Mechanical Seal	Bingham Willamette	1714880-1	1169	SO23-Cart#19	1986	Removed	Yes
RCP Mechanical Seal	Bingham Willamette	1714880-8	1168	SO23-Cart#18 Rebuild WO 800062425	1986	Installed	Yes

7. **Description of Work:** The RCP seal cartridge for S31201MP001 was replaced with a spare which had been rebuilt in accordance with the SONGS rebuild program under NMO 800062425. The removed seal cartridge was placed into the SONGS rebuild program under NMO 800199527.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___

VT-2 Exam. performed per procedure SO23-XVII-3.1.1 Pressure: 2250 psi Test Temp: ≥280 °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

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears Supervising ASME Code Engineer. Date: February 24, 2009
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA2081 California
(National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Date: 1/19/09 **Sheet 1 of 1**
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128
Repair/Replacement Plan: GEN-206
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
WO: 800160452
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
4. **Identification of System:** Reactor Coolant System
5. (a) **Applicable Construction Code:** ASME Section III, Class 1, 1971 Edition, W. '71 addenda (Pump)
ASME Section III, Class 1, 1980 Edition, S. '82 Edition (Mech. Seal)
- (b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
36" Reactor Coolant Pump	Byron Jackson	701-N-0562	N/A	S31201MP004	1979	-----	Yes
RCP Mechanical Seal	Bingham Willamette	1659057-6	1174	SO23-Cart#24	1986	Removed	Yes
RCP Mechanical Seal	Bingham Willamette	1714880-3	1172	SO23-Cart#22 Rebuild WO 800054938	1986	Installed	Yes

7. **Description of Work:** The RCP seal cartridge for S31201MP004 was replaced with a spare which had been rebuilt in accordance with the SONGS rebuild program under NMO 800054938. The removed seal cartridge was placed into the SONGS rebuild program under NMO 800199526.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___

VT-2 Exam. performed per procedure SO23-XVII-3.1.1 Pressure: 2250 psi Test Temp: ≥280 °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.

9. Remarks: None.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A

Expiration Date: N/A

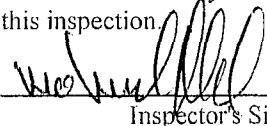
Signed: Robert C. SearsSupervising ASME Code Engineer Date: February 24, 2009

Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/10/08 to 11/14/08, 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 CA2081

California

(National Board, State, Province, and Endorsements)

Date

3/4/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern-California-Edison-Company Date: 02/17/09 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: ASME Section XI Data -0085
3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 WO: 800177969
4. Identification of System: Auxiliary Feedwater System 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, S. '74 addenda
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda
6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
4" 900# Y-Globe Lift Check Valve	Atwood & Morrill Co.	3-16188-01	N/A	S31305MU124	1991	Corrected	Yes
Poppet	Weir Valves and Controls	Serial # 2	N/A	RSO-2170-06 SA516 gr.70	2006	Installed	Yes

7. Description of Work: Check valve S21305MU124 was overhauled to correct high back leakage. The poppet was replaced with a new in-kind replacement in conjunction with the valve overhaul. A VT-2 examination was performed in conjunction with a system leakage pressure test when valve returned to service.

8. Tests Conducted: Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___
Pressure: 995 psi Test 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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert C. Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer Date: February 23, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/1/08 to 11/14/08, 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 CA 2081 California
(National Board, State, Province, and Endorsements)

Date 3/3/09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Date: 2/13/09 **Sheet 1 of 1**
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128
Repair/Replacement Plan: ASME SECTION XI
 DATA - 0271
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
WO: 800180638
4. **Identification of System:** Safety Injection System
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
5. (a) **Applicable Construction Code:** ASME Section III, Class 2, 1971 Edition, S. '73 addenda
 (b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
1½" 600# Y-Type Globe Valve	Kerofest Mfg Co.	NO3-10	N/A	S32417MU016	1976	Corrected	Yes
Disc	Kerofest Mfg. Co.	ABH28-7	N/A	RSO-4363-85 SA479 Tv. 316 w/Stell.#6	1985	Installed	Yes

7. **Description of Work:** Instrument air containment isolation valve S32417MU016 was reworked to correct seat leakage. The disc was found to be unsat. for continued use and was replaced with an in-kind replacement disc (S/N ABH28-7). A satisfactory Appendix J test was performed after valve rework in lieu of VT-2 examination.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure:___ Exempt:___ Other: X
 Pressure: N/A psi Test Temp: N/A °F

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: Appendix J test performed in lieu of VT-2 examination.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert G. Sears
Owner or Owner's Designee, Title

Supervising ASME Code Engineer Date: February 23, 2009

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/12/08 to 11/14/08, 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 CA2081 California
(National Board, State, Province, and Endorsements)

Date 3/4/09

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

S.S. RID 1997

- 2525 Liberty Avenue
1. Manufactured by Kerotest Manufacturing Corp. Pittsburgh, Pa. Order No. NU-54942
(Name & Address of Manufacturer)
P.O. Box 400
 2. Manufactured for Southern California Edison Co. San Clemente, Calif. Order No. N4141261
(Name and Address)
 3. Owner Southern California Edison Co.
 4. Location of Plant San Onofre Generating Station, San Clemente, California
 5. ~~Pump or~~ Valve Identification 1-1/2" Check Valve Serial # NO3-10
- (Brief description of service for which equipment was designed)
service: fluids and solutions
- Rev. 0
(a) Drawing No. SC-D-9958XOI-(2) Prepared by C. Tongel
Sh. 1 of 1
(b) National Board No. N/A
6. Design Conditions 1030 (Pressure) psi 650 °F or Pressure Class 600lb. (1)
7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2
Edition 1971, Addenda Date Summer 1973, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body P-9958-1-(1)Z	SA182 F316	McWilliams Forge	Mat'l. Code NO
Cover UP-9911-2-(1)Z	"	"	" JF

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in Items, 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Disc Assy. UP-9911-55-(1)Z	SA479 Type 316	Carpenter	Mat'l. Code HD

8. Hydrostatic test 2175 psi

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report on file at N/A
 Design specifications certified by Don L. Kinnsch (I) Prof. Eng. State Calif. Reg. No. 13352
 Stress analysis report certified by N/A (I) Prof. Eng. State Calif. Reg. No. 13352
 (I) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date May 21 19 76 Signed Kerotest By S. J. Caroleo
 (Manufacturer)
 Certificate of Authorization No. 908 expires 10/28/77
 S. J. Caroleo

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Connecticut have inspected the equipment described in this Data Report on May 21 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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 May 21 19 76

Ray Welch (Inspector) Commissions Pa. 2052 (National Board, State, Province and No.)

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 12/01/08 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station Unit: 3
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: GEN-250 Rev. 1
3. Work Performed by: Southern California Edison Company WO: 800181895
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
4. Identification of System: Main Steam System (1301) 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, S. '74 addenda
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Size 100-6 Snubber	Pacific Scientific	263	N/A	S3ST001H025T	N/A	Removed	No
Size 100-6 Snubber	Basic-PSA Inc.	42928	N/A	RSO-0729-07	N/A	Installed	No

7. Description of Work: The mechanical snubber in plant functional location S3.SBCS.S3ST001H025T was replaced in-kind as a preventative maintenance action. A VT-3 examination was performed after installation of replacement snubber.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure: _____ Exempt: _____ Other: X

Pressure: N/A psi Test 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 mechanical snubber was certified to ASME III, Class 1(NF), 1998 Edition, 2000 addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

May 25 for Al Meichler
Owner or Owner's Designee, Title

Supervising ASME Code Engineer

Date: 12/1/08

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/26/08 to 11/8/08, 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.

MA Meichler
Inspector's Signature

Commissions

CA 2093

California

(National Board, State, Province, and Endorsements)

Date

1/6/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 12/01/08 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: GEN-250 Rev.1
3. Work Performed by: Southern California Edison Company WO: 800184237
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant System (1201)
5. (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S. '74 addenda
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda
6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Size 1/2-2.5" Snubber	Pacific Scientific	20210	N/A	S3RC031H001	N/A	Removed	No
Size 1/2-2.5" Snubber	Pacific Scientific	20726	N/A	RSO-2192-92	N/A	Installed	No

7. Description of Work: The mechanical snubber in plant functional location S3.RCSY.S3RC031H001 failed its acceleration test and was replaced in-kind as a corrective action. A VT-3 examination was performed after installation of replacement snubber.

8. Tests Conducted: Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure:___ Exempt:___ Other: X
Pressure: N/A psi Test 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.

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: My Sigs for Al Meichlor Supervising ASME Code Engineer Date: 12/1/08
 Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/30/08 to 11/6/08, 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.

WAZCMG
 Inspector's Signature

Commissions CA2093 California
 (National Board, State, Province, and Endorsements)

Date 1/8/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 12/01/08 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: GEN-250 Rev.1
3. Work Performed by: Southern California Edison Company WO: 800185890
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
4. Identification of System: Main Steam System
5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S. '74 addenda
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda
6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Size 100-6 Snubber	Pacific Scientific	338	N/A	S3ST002H007E	1977	Removed	No
Size 100-6 Snubber	Basic-PSA Inc.	42926	N/A	RSO-0729-07	2005	Installed	No

7. Description of Work: The mechanical snubber in plant functional location S3.SBCS.S3ST002H007E was replaced in-kind as a preventative maintenance action. A VT-3 examination was performed after installation of replacement snubber.

8. Tests Conducted: Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure:___ Exempt:___ Other: X
Pressure: N/A psi Test 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 mechanical snubber was certified to ASME III, Class 1(NF), 1998 Edition, 2000 addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A

Expiration Date: N/A

Signed: Myra S. for Al Meichler Supervising ASME Code Engineer Date: 12/1/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 10/30/08 to 11/7/08, 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.

WAZCH Commissions CA2093 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date 1/12/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company **Date:** 12/01/08 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** GEN-250 Rev.1
3. **Work Performed by:** Southern California Edison Company **WO:** 800187989
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
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, S. '74 addenda
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition; 1996 Addenda
6. **Identification of Components:**

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Size 3/4-2.5" Snubber	Pacific Scientific	104	N/A	S3VC001H009A	1987	Removed	No
Size 3/4-2.5" Snubber	Pacific Scientific	105	N/A	RSO-0786-91	1990	Installed	No

7. **Description of Work:** The mechanical snubber in plant functional location S3.CVCS.S3VC001H009A was replaced in-kind as a preventative maintenance action. A VT-3 examination was performed after installation of replacement snubber.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure:___ Exempt:___ Other: X
Pressure:___ N/A ___ psi Test 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 mechanical snubber was certified to ASME III, Class 1(NF)

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

May 25 for Al Meichler
Owner or Owner's Designee, Title

Supervising ASME Code Engineer

Date: 12/1/08

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 11/1/08 to 11/6/08, 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.

WACM
Inspector's Signature

Commissions

CA 2093

California

(National Board, State, Province, and Endorsements)

Date

1/14/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. **Owner:** Southern California Edison Company. **Date:** 12/01/08 **Sheet 1 of 1**
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. **Plant:** San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 **Repair/Replacement Plan:** GEN-250 Rev.1
3. **Work Performed by:** Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **WO:** 800188198
4. **Identification of System:** Main Steam System **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
(b) **Applicable Edition of Section XI Utilized for Repair/Replacement Activity:** 1995 Edition, 1996 Addenda
6. **Identification of Components:**

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Size 100-6 Snubber	Pacific Scientific	312	N/A	S3ST001H005	1977	Removed	No
Size 100-6 Snubber	Basic-PSA Inc.	43072	N/A	RSO-0729-07	2007	Installed	No

7. **Description of Work:** The mechanical snubber in plant functional location S3.SBCS.S3ST001H005 was replaced in-kind as a preventative maintenance action. A VT-3 examination was performed after installation of replacement snubber.

8. **Tests Conducted:** Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure:___ Exempt:___ Other: X
Pressure: N/A psi Test 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 mechanical snubber was certified to ASME III, Class 1(NF), 1998 Edition, 2000 addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Meichler Supervising ASME Code Engineer Date: 12/1/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 11/1/08 to 11/12/08, 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.

MAZCH
Inspector's Signature

Commissions CA2093 California
(National Board, State, Province, and Endorsements)

Date 1/16/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 12/01/08 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: GEN-250 Rev.1
3. Work Performed by: Southern California Edison Company
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 WO: 800189685
4. Identification of System: Main Steam System
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
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition, 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Size 100-6 Snubber	Pacific Scientific	521	N/A	S3ST001H002	1977	Removed	No
Size 100-6 Snubber	Basic-PSA Inc.	2444	N/A	RSO-2503-05	N/A	Installed	No
Load Pin (2)	Basic-PSA	Heat # 42218 Heat Code N4056	N/A	RSO-0251-08	N/A	Installed	No

7. Description of Work: The mechanical snubber in plant functional location S3.SBCS.S3ST001H002 failed its surveillance test and was replaced in-kind as a corrective maintenance action. Both load pins were also replaced. A VT-3 examination was performed after installation of replacement snubber.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure: _____ Exempt: _____ Other: X
Pressure: N/A psi Test 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 AJA.

FORM NIS-2 (back)

9. **Remarks:** The replacement load pins were certified to ASME III, Class 1-NF, 1998 Edition, 2000 addenda, reference report of reconciliation 026-03.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: My So For Al Meichler Supervising ASME Code Engineer Date: 12/1/08
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 11/3/08 to 11/12/08, 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.

MAZCMg
Inspector's Signature

Commissions CA2093 California
(National Board, State, Province, and Endorsements)

Date 11/20/2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 12/22/2008 Sheet 1 of 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
2. Plant: San Onofre Nuclear Generating Station
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: 010-08, Rev 0
3. Work Performed by: PCI Energy Services WO: 800194220
Address: One Energy Drive, Lake Bluff, IL 60044
Type Code Symbol Stamp: N/A
4. Identification of System: Reactor Coolant System Authorization No: N/A
Expiration Date: N/A
5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition through Summer 1971 Addenda
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Reactor Closure Head	Combustion Engineering	72170	22001	S31101MV001A	1977	---	Yes
CEDM Penetration #64	---	---	---	---	---	Corrected	---

7. Description of Work:

A PT examination was performed of the INCONEL 52 overlay weld repair on CEDM #64 (reference NDE Report No 308-15PT-014) which revealed an unacceptable indication. The overlay weld repair was performed in October 2004 per Relief Request ISI-3-8. Refueling interval surface examinations were a condition of the relief request approval. After initial surface treatment on work order 800190787 failed to eliminate the flaw, a larger excavation was made in conjunction with removal of a metallography sample that eliminated the flaw. The excavation cavity was PT examined prior to welding and found to meet acceptance standards of NB-5352. The excavation cavity was then weld repaired using INCONEL 52 weld wire (Heat No NX6321JK) to restore the cavity to the initial before excavation weld deposit thickness. An additional PT examination of the final repair weld surface was performed and also found to meet acceptance standards of NB-5352.

The excavation and weld repair were performed in accordance with PCI project instruction PI-901115-03 and the SONGS ASME XI Repair/Replacement Program.

8. Tests Conducted: Hydrostatic:___ Pneumatic:___ Nominal Operating Pressure: X Exempt:___ Other:___

See: SO23-XVII-3.1.1, performed 12/1/2008 Pressure: 2250 psia Test Temp: 280 °F min.

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

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Robert Holmes for AB Meichler Supervising ASME Code Engineer Date: 12/22/2008
Owner or Owner's Designee, Title

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 or Province of California, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 11/12/08 to 12/17/08, 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.

MAZONG
Inspector's Signature

Commissions CA 2093 California
(National Board, State, Province, and Endorsements)

Date 1/27/2009