



May 17, 2011

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 19, 2008 to February 18, 2011, the date Unit 3 returned to service following its Cycle 16 refueling outage.

If you have any questions or require additional information, please contact me or Mr. Ryan Treadway at (949) 368-9985.

Sincerely,

Enclosure: Inservice Inspection Summary Report

MAR

cc: E. E. Collins, Regional Administrator, NRC Region IV

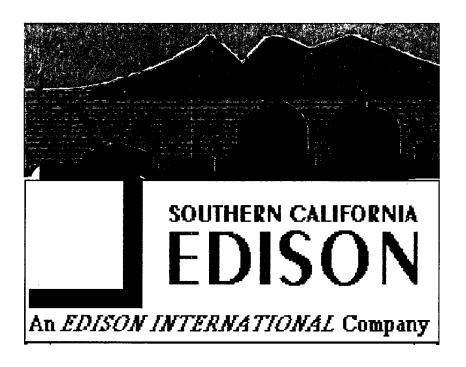
R. J. Caniano, Director, Division of Reactor Safety, NRC Region IV

R. Hall, 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-16

INSERVICE INSPECTION SUMMARY REPORT

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1 SUMMARY REPORT

Date of Document Completion......May 9, 2011

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......March 27, 1984
Interval.........Third Ten Year ISI Interval
Period.......Second Period

Refueling Outage Number......16

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: 3/27/84 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 3MP003	Byron Jackson	701-N-0561	N/A	N/A
Steam Gen 3ME088	Mitsubishi Heavy Industries	B-SGP-113	Kobe, Japan	5865
Steam Gen 3ME089	Mitsubishi Heavy Industries	B-SGP-112	Kobe, Japan	5864

FORM NIS-1 (back)
8. Examination Date: December 19, 2008 to February 18, 2011
9. Inspection Period Identification: 1st PeriodX_2nd Period3rd Period
10. Inspection Interval Identification:1st 10-Yr2nd 10-YrX_3rd 10-Yr4th 10-Yr
11. Applicable Edition of Section XI IWB, IWC, IWD, IWF, 1995 Edition, with the 1996
Addenda, TWE, IWL 2001 Edition with 2003 Addenda,
12. Date/Revision of Inspection Plan August 18, 2003, Doc # 90074, Rev 0
13. Abstract of Examinations & TestsSee 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 statements 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: 5/6/20/1 Signed: Southern California Edison By: Manager Engineering Programs (Owner) Manager Engineering Programs
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 19, 2008 to February 18, 2011, 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.
Commissions NB13402-A,N, 1 CA 2093 Inspector's Signature NB, State, Province or Endorsements
Date: 5/9/11

ABSTRACT OF EXAMINATIONS & TESTS

Inservice Examinations and Tests required per ASME Section XI Code (Code) and 10CFR 50.55a for the third interval 2nd Period were scheduled and completed. Attachment 1 provides the status of work completed for the inspection interval. Attachment 2 provides the listing of inservice examinations and tests performed from December 19, 2008 to February 18, 2011.

Steam Generators with component identification numbers ME-088 and ME-089 were replaced during the outage and the required Preservice examinations were scheduled and completed.

ABSTRACT OF RESULTS OF EXAMINATIONS AND TESTS AND CORRECTIVE MEASURES

Results of all the scheduled Inservice examinations/tests and Preservice examinations/tests including replaced steam generators were acceptable. No flaws were detected during examination or tests performed hence corrective measures were not required.

2 STEAM GENERATOR EXAMINATIONS

Replacement Steam Generator Tubing Preservice Examinations

Preservice Examinations of the tubing in the two Replacement Steam Generators were performed in accordance with:

- Conformed Specification for Design and Fabrication of the Replacement Steam Generators for Unit 2 and Unit 3, San Onofre Nuclear Generating Station, Southern California Edison Document Number SO23-617-01, and
- American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI (Rules for Inservice Inspection of Nuclear Power Plant Components), 1995 Edition and 1996 Addenda.

The components examined were:

- Tubing in Replacement Steam Generator S3.RCPS.S31301ME088P
- Tubing in Replacement Steam Generator S3.RCPS.S31301ME089P

The components are Code Class 1.

The Code Examination Category was B-Q (Steam Generator Tubing) and the Item Number was B16.20 (Steam Generator Tubing in U-Tube Design).

The examination method was "eddy current".

There were no Code Cases.

The below table summarizes the scope of inspections performed on each Steam Generator (SG).

Inspection Scope	SG E-088 Tubes/Percent	SG E-089 Tubes/Percent
Full length of tubes with the bobbin probe	9727/100%	9727/100%
Full length of tubes within the hot leg tubesheet to an extent of 3 inches above the tubesheet with the rotating plus point coil probe	9727/100%	9727/100%
Full length of tubes within the cold leg tubesheet to an extent of 3 inches above the tubesheet with the rotating plus point coil probe	9727/100%	9727/100%
U-bend regions of tubes in Rows 1 through 15 with the rotating plus point coil probe	1314/100%	1314/100%

No active degradation mechanisms were found.

Nondestructive examination techniques utilized for the degradation mechanism of mechanically-induced wear of tubing included the bobbin probe and rotating plus point coil probe. The rotating plus point probe, which is capable of signal characterization, was used on a representative sample of conditions observed to provide a basis for historical comparisons in the future.

No indications of tubing degradation were found.

No tube plugging was recommended. No tubes were plugged. These two steam generators do not have any tubes plugged as of the date of this report.

Condition Monitoring was not applicable to these preservice examinations. There are no results of corrective actions such as tube pulls (i.e., tube removals) and in-situ pressure testing of tubing, because they were not needed and not performed.

Associated records are archived in Southern California Edison Corporate Document Management.

3 REACTOR VESSEL HEAD EXAMINATIONS IN ACCORDANCE WITH 10CFR50.55(a)(g)(6)(ii)(D)

Inspection Requirement

Bare Metal Visual examination of the exterior surface of Class 1 SONGS Unit-3 Reactor Vessel Head; Item number B4.10 of Code Case N-729-1.

The entire outer surface as defined in figure 1 of Code case N-729-1 was examined in accordance with 10CFR50.55(a)(g)(6)(ii)(D). No unacceptable indications were identified.

Inspection Requirement

A combination of Volumetric or Surface examinations of all Class 1, SONGS Unit-3 reactor vessel head penetrations; items B4.20 of Code Case N-729-1 were performed in accordance with 10CFR50.55(a)(g)(6)(ii)(D). SCE relief request ISI-3-29 from CEDM coverage requirements specified in Code case N-729-1 was approved by NRC letter dated December 22, 2009, and SCE relief request ISI-3-30 from Incore Instrument penetration coverage requirements specified in Code case N-729-1 was approved by NRC letter on July 13, 2010.

A total of ninety-one (91) CEDM penetrations, ten (10) Instrument penetrations and one (1) vent line penetration were examined. One hundred percent of the approved examination requirement for the one hundred and two (102) reactor vessel head penetrations was examined. No unacceptable indications were identified during those examinations.

REACTOR COOLANT PRESSURE BOUNDARY VISUAL EXAMINATIONS IN ACCORDANCE WITH 10CFR50.55(a)(g)(6)(ii)(E)

Inspection Requirement

Visual Examination of SONGS Unit-3 partial and full penetration pressure retaining welds in Class 1 components fabricated with Alloy 600/82/182 material were examined in accordance with the requirements of 10CFR50.55(a)(g)(6)(ii)(E).

Four (4) pressurizer instrument connections and sixteen (16) cold leg full penetration welds (Items B15.180 and B15.215 respectively of Code Case N-722) were visually examined. One hundred percent of the 10CFR50.55(a)(g)(6)(ii)(E) requirement was satisfied by this examination. No unacceptable indications were identified during the examinations.

4 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 U3C16	Percentage of examinations completed for the 1st Period(U3C13 & U3C14) and 2nd Period (U3C15 and U3C16) of the 3rd Interval, See Note-3
IWB	B-A	27	3	2	22	0	19%
	B-B	5	2	1	2	1	60%
	B-D	28	10	6	12	6	57%
	B-F/B-J	98	33	45	30	45	75%
	B-G-1	248	86	54	108	0	56%
	B-G-2	177	57	81	58	41	75%
	B-K	12	4	5	3	5	75%
	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	3	75%
	B-M-2	See Note-4	N/A	N/A	N/A	N/A	N/A
	B-N-1	3	1	1	1	1	67%
	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 re	efueling outa	ge prior to pla	ant startup		100%
	B-Q	Governed by the					
IWC	C-A	15	7	6	4	6	75%
	C-B	8	2	6	2	6	75%
	C-C	48	17	15	16	15	67.0%
	C-F-1	140	48	61	35	5	75%
	C-F-2	28	10	13	7	13	75%
	C-G	5	1	2	2	1	60%
	C-H	Each inspectio	n period				100%
IWD	D-A	50	19	15	16	0	68%
	D-B	Each inspectio	n period				100%
IWF	F-A	270	88	91	91	0	66%
IWE	E-A	207	2	2	203	0	0%, See note-5
	E-C	6	2	2	2	0	0%, See note-5
IWL	L-A	Once in every	five years			50%	50%, See note-5
	L-B	Once in every	five years			0	0%, See note-5
Augmented	ISI for the I	 Reactor coolant 	pump flywhe	eels and high	energy pipin	<u>g</u>	
	Flywheels	4	0	0	4	0	0%
	High energy piping welds	19	60	0	0	0	100%
a) Plant Mo	dification	 aminations subj 					
b) Periodic	update of R	egulatory Guide	1.147, Inse	rvice Inspecti	on Code Cas	e Acceptability	
ÁSME Sect				Ţ		· · · · · · · ·	

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

c) Periodic update of 10	OCFR 50.55a Co	odes and Sta	andards					
d) Approval or disappro	d) Approval or disapproval of relief requests submitted to the NRC in accordance with 10CFR 50.55a							
2) Number of examinati	ions scheduled	for a period	may change	due to				
a) Component accessib	ility because of	high radiation	on or contaim	ination				
b) Based on Note-1								
3) Subject to change ba	sed on Note-1							
4) Examination is require	red only when a	pump or val	lve is disasse	mbled for m	aintenance, rep	air or volumetric		
examination								
5) The second 120 mor	5) The second 120 months (2nd interval) for containment ISI for Subsections IWE and IWL begun on September 9,							
2008, and scheduled to end on September 8, 2018, in accordance with 10CFR 50.55a(b)(2)(vi)								
6) For Category C-H and D-B, 2nd period tests are completed.								

5 ATTACHMENT- 2

LIST OF CODE CLASS 1 AND 2, ISI EXAMINATIONS AND TESTS COMPLETED (5 Pages)

ISI DESIGNATION NUMBER	GNATION COMPONENT EXAMINED OR TESTED CODE EXAM		CODE EXAMINATION CATEGORY	CODE EXAMINATION ITEM NO.	N EXAMINATION OR TEST METHOD			
					VOLUMETRIC EXAMINATION	E .	VISUAL EXAMINATION	
03-001-080	AREAS ABOVE AND BELOW REACTOR CORE	1	BN1	B13.10			VT-3	
03-003-017	INLET NOZZLE INNER RADIUS	1	B-D	B3.140			ENVT	
03-003-018	OUTLET NOZZLE INNER RADIUS @ 45 DEGREES	1	B-D	B3.140			ENVT	
03-003-019	OUTLET NOZZLE INNER RADIUS @ 315 DEGREES	1	B-D	B3.140			ENVT	
03-003-009	PRIMARY EXTENSION RING-TO-TUBE SHEET WELD	1	B-B	B2.40	UT			
03-003-001	SUPPORT SKIRT TO STAY RING WELD	1	В-К	B10.10		MT		
03-004-019	OUTLET NOZZLE INNER RADIUS @ 315 DEGREES	1	B-D	B3.140			ENVT	
03-004-017	INLET NOZZLE INNER RADIUS	1	B-D	B3.140			ENVT	
03-004-018	OUTLET NOZZLE INNER RADIUS @ 45 DEGREES	1	B-D	B3.140			ENVT	
03-004-009	PRIMARY EXTENSION RING-TO-TUBE SHEET WELD	1	В-В	B2.40	UT			
03-004-001	SUPPORT SKIRT-TO-STAY BASE WELD	1	В-К	B10.10		MT		
03-005-019-04	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-05	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-06	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-07	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-08	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-09	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-10	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-11	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-12	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-13	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-14	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-15	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-16	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-01	PRIMARY MANWAY BOLTING (STUD)	11	BG2	B7.20			VT-1	
03-005-019-02	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-019-03	PRIMARY MANWAY BOLTING (STUD)	1	BG2	B7.20			VT-1	
03-005-027	SAFETY NOZZLE-TO-SAFE END WELD @ 45 DEGREES	1	B-F	B5.40	UT			
03-005-028	SAFETY NOZZLE-TO-SAFE END WELD @ 225 DEGREES	1	B-F	B5.40	UT			
03-005-029	SAFETY NOZZLE-TO-SAFE END WELD @ 315 DEGREES	1	B-F	B5.40	UT			

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03-005-030	SPRAY NOZZLE-TO-SAFE END WELD	1	B-F	B5.40	UT		
03-005-031	SURGE NOZZLE-TO-SAFE END WELD	1	B-F	B5.40	UT		
03-006-009	DRAIN NOZZLE-TO PIPE	1	B-J	B9.32	UT		
03-006-001	STEAM GENERATOR #1 INLET NOZZLE EXTENSION PIECE-TO-PIPE WELD	1	B-J	B9.11	UT		
03-007-001	STEAM GENERATOR #2 INLET NOZZLE EXTENSION PIECE-TO-ELBOW WELD	1	B-J	B9.11	UT		
03-008-018	DRAIN NOZZLE-TO-PIPE WELD	1	B-J	B9.32	UT		
03-008-017	PIPE-TO-STEAM GENERATOR NOZZLE EXTENSION PIECE WELD	1	B-J	B9.11	UT	!	
03-008-002	SAFE END-TO-ELBOW WELD	1	B-J	B9.11	UT		
03-009-012	SAFETY INJECTION NOZZLE-TO-SAFE END WELD	1	B-J	B9.11	UT		
03-009-009	SAFETY INJECTION NOZZLE-TO-PIPE WELD	1	B-J	B9.31	UT		
03-009-002	SAFE END-TO-PIPE WELD	1	B-J	B9.11	UT		
03-010-017	PIPE-TO-STEAM GENERATOR EXTENSION PIECE WELD	1	B-J	B9.11	UT		
03-010-002	SAFE END-TO-ELBOW WELD	1	B-J	B9.11	UT		
03-011-010	PRESSURIZER SPRAY LINE NOZZLE-TO-PIPE WELD	1	B-J	B9.32	UT		
03-011-011	SAFETY INJECTION NOZZLE-TO-SAFE END WELD	1	B-J	B9.11	UT		
03-011-002	SAFE END-TO-PIPE WELD	1	B-J	B9.11	UT		
03-012-017	PIPE-TO-STEAM GENERATOR NOZZLE EXTENSION PIECE WELD	1	B-J	B9.11	UT		
03-012-002	ELBOW WELD-TO-SAFE END	1	B-J	B9.11	UT		
03-013-009	SAFETY INJECTION NOZZLE-TO-PIPE WELD	1	B-J	B9.31	UT		
03-013-011	SAFE END WELD-TO-SAFETY INJECTION NOZZLE	1	B-J	B9.11	UT		
03-013-002	SAFE END-TO-PIPE WELD	1	B-J	B9.11	UT		
03-014-017	PIPE-TO-STEAM GENERATOR NOZZLE EXTENSION PIECE WELD	1	B-J	B9.11	UT		
03-014-002	SAFE END-TO-ELBOW WELD	1	B-J	B9.11	UT		
03-015-009	SAFETY INJECTION NOZZLE-TO-PIPE WELD	1	B-J	B9.31	UT		
03-015-010	PIPE WELD-TO-SAFETY INJECTION NOZZLE	1	B-J	B9.11	UT		
03-015-002	SAFE END-TO-PIPE WELD	1	B-J	B9.11	UT		
03-016-001	12" SCH 160 NOZZLE-TO-PIPE	1	B-J	B9.11	UT		
03-017-470C	SIDE PLATE BOLTING (STUDS & NUTS) (DRAWING S023-408-1-6-216)	1	BG2	B7.70			VT-1
03-017-630C	SIDE PLATE BOLTING (DRAWING SO23-408-1-6-45)	1	BG2	B7.70			VT-1
03-017-620	3" SCH 160 PIPE-TO-VALVE	1	B-J	B9.21	UT		
03-018-530C	SIDE PLATE BOLTING (DRAWING SO23-408-1-6-45)	1	BG2	B7.70			VT-1
03-018-440C	SIDE PLATE BOLTING (STUDS & NUTS) (DRAWING NO. SO23-408-1-6-216)	1	BG2	B7.70			VT-1
03-018-430	8" SCH 140 PIPE-TO-VALVE	1	B-J	B9.11	UT		
03-019-010C	SIDE PLATE BOLTING (STUDS & NUTS)(DRAWING NO. SO23-408-1-6-46)	1	BG2	B7.70			VT-1
03-019-1010	GUIDE W/INTEGRALLY WELDED LUGS	1	в-к	B10.20		PT	

03-019-130	8" SCH 140 VALVE-TO-PIPE	1	B-J	B9.11	UT		
03-019-150	8" SCH 140 PIPE-TO-ELBOW	1	B-J	B9.11	UT		
03-019-020	3" SCH 160 VALVE-TO-PIPE	1	B-J	B9.21	UT		
03-020-720	GUIDE & Y-STOP W/INTEGRALLY WELDED LUGS	1	В-К	B10.20		PT	
03-020-730	Y-STOP W/INTEGRALLY WELDED LUGS	1	в-к	B10.20		PT	
03-020-530	VALVE-TO-8" SCH 140 PIPE	1	B-J	B9.11	UT		
03-020-640	3" SCH 160 PIPE-TO-CHECK VALVE	1	B-J	B9.21	UT		
03-021-450B	10" STOP VALVE LOWER BODY WELD (DRAWING SO23-507-1-5-139)	1	BM1	B12.40		PT	
03-021-450E	10" STOP VALVE UPPER BODY WELD (DRAWING NO. SO23-507-5-1-139)	1	BM1	B12.40		PT	
03-021-310B	16" STOP VALVE UPPER BODY WELD (DRAWING NO. SO23-507-5-1-37)	1	ВМ1	B12.40		PT	
03-025-120E	VALVE CAP BOLTING (STUDS AND NUTS)	1	BG2	B7.70			VT-1
03-025-120C	2" HEX NUTS (INLET FLANGE)	1	BG2	B7.70			VT-1
03-025-120D	VALVE BONNET BOLTING (STUDS AND NUTS)	1	BG2	B7.70			VT-1
03-025-120B	2" STUDS (INLET FLANGE)	1	BG2	B7.70			VT-1
03-026-800	2" SCH 160 PIPE-TO-REDUCING TEE	1	B-J	B9.21	UT		
03-028-030	2" SCH 160 ELBOW-TO-PIPE	1	B-J	B9.21	UT		
03-030-040	2" SCH 160 REDUCING TEE-TO-PIPE	1	B-J	B9.21	UT		
03-031-010	2" SCH 160 NOZZLE-TO-PIPE	1	B-J	B9.21	UT		
03-031-030	2" SCH 160 ELBOW-TO-PIPE	1	B-J	B9.21	UT		
03-031-060	2" SCH 160 PIPE-TO-VALVE	1	B-J	B9.21	UT		
03-033-020	2" SCH 160 PIPE-TO-ELBOW	1	B-J	B9.21	UT		
03-034-030	2" SCH 160 ELBOW-TO-PIPE	11	B-J	B9.21	UT		
03-035-089	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-090	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-091	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	11	BG2	B7.60			VT-1
03-035-092	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-093	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-094	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-095	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-080	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60	<u> </u>		VT-1
03-035-081	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-082	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-083	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-084	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-085	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1

						-	
03-035-086	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-087	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-035-088	HEAT EXCHANGER-TO-DRIVER MOUNT STUD (DWG. NO. SO23-922-157)	1	BG2	B7.60			VT-1
03-042-008	FEEDWATER NOZZLE INSIDE RADIUS SECTION	2	С-В	C2.22	UT		
03-042-008	FEEDWATER NOZZLE-TO-SHELL WELD	2	C-B	C2.21	UT	MT	
03-043-008	FEEDWATER NOZZLE INSIDE RADIUS SECTION	2	С-В	C2.22	UT		
03-043-008	FEEDWATER NOZZLE-TO-SHELL WELD	2	C-B	C2.21	UT	MT	
03-044-440	SNUBBER W/WELDED ATTACHMENT	2	c-c	C3.20		MT	
03-044-470	SNUBBER W/WELDED ATTACHMENT	2	с-с	C3.20		MT	
03-044-420	SNUBBER W/WELDED ATTACHMENT	2	с-с	C3.20		MT	
03-044-430	SNUBBER W/WELDED ATTACHMENT	2	с-с	C3.20		МТ	
03-044-070	18" SCH 100 PIPE-TO-SWEEPOLET	2	CF2	C5.81		мт	
03-044-010	18" SCH 80 NOZZLE EXTENSION-TO-ELBOW	2	CF2	C5.51	UT	PT	
03-045-360	18" SCH 80 ELBOW-TO-NOZZLE EXTENSION PIECE	2	CF2	C5.51	UT	PT	
03-046-110	6" SCH 120 PIPE-TO-VALVE	2	CF2	C5.51	υT	MT	
03-046-130	6" SCH 120 TEE-TO-PIPE	2	CF2	C5.51	UT	МТ	
03-047-010	6" SCH 120 SWEEPOLET-TO-PIPE	2	CF2	C5.51	UT	MT	
03-048-350	6" SCH 80 ELBOW-TO-ELBOW	2	CF2	C5.51	UT	MT	
03-048-330	6" SCH 80 PENETRATION-TO-PIPE	2	CF2	C5.51	UT	мт	
03-048-340	6" SCH 80 PIPE-TO-ELBOW	2	CF2	C5.51	UT	МТ	
03-050-010	42" ELBOW-TO-STEAM GENERATOR NOZZLE WELD	2	CF2	C5.51	UΤ	МТ	
03-051-010	42" ELBOW-TO-STEAM GENERATOR NOZZLE WELD	2	CF2	C5.51	UΤ	МТ	
03-053-290	HEADER EXTRUSION-TO-6" PIPE	2	CF2	C5.51	UT	мт	
03-053-300	HEADER EXTRUSION-TO-6" PIPE	2	CF2	C5.51	UT	мт	
03-061-330	12" CONTROL VALVE BODY WELD (DRAWING NO. SO23-507-5-1-199)	2	C-G	C6.20		PT	
03-062-360-01	LPSI PUMP #1 SUPPORT LUG (INTEGRALLY WELDED)	2	C-C	C3.30		PT	
03-065-310	24" SCH 40S ELBOW-TO-PIPE	2	CF1	C5.11	UT	PT	
03-068-950	GUIDE & Y-STOP W/INTEGRALLY WELDED LUGS	2	C-C	C3.20		PT	
03-068-1070	GUIDE & Y-STOP W/INTEGRALLY WELDED LUGS	2	C-C	C3.20		PT	
03-069-1920	3" VALVE-TO-PIPE	2	CF1	C5.21	UT	PT	
03-069-3640	SWAY STRUT W/INTEGRALLY WELDED ATTACHMENT	2	C-C	C3.20		PT	
03-069-3520	INTEGRALLY WELDED ANCHOR STRAP	2	C-C	C3.20		PT	
03-069-2910	3" SCH 160 PIPE-TO-VALVE	2	CF1	C5.21	UT	PT	
03-069-2570	3" SCH 160 PIPE-TO-VALVE	2	CF1	C5.21	UT	PT	
03-069-1010	3" SCH 160 PIPE TO 3" CHECK VALVE	2	CF1	C5.21	UT	PT	

03-070-2860	SPRING W/INTEGRALLY WELDED DUMMY STUB	2	C-C	C3.20		PT	
03-070-2890	3-WAY STOP W/INTEGRALLY WELDED LUGS	2	C-C	C3.20		PT	
03-070-2710	SNUBBERS W/INTEGRALLY WELDED DUMMY STUB	2	C-C	C3.20		PT	
03-070-2660	AXIAL STOP W/INTEGRALLY WELDED LUGS	2	C-C	C3.20		PT	
03-070-2680	3-WAY STOP W/INTEGRALLY WELDED LUGS	2	C-C	C3.20		PT	
03-071-1500	GUIDE & Y-STOP W/INTEGRALLY WELDED LUGS	2	C-C	C3.20		PT	
03-075-480	FLANGE-TO-PRIMARY WATERBOX	2	C-A	C1.10	UT		
03-075-490	TUBESHEET-TO-PRIMARY WATERBOX	2	C-A	C1.30	UT		
03-075-540	REINFORCING RING TO NOZZLE WELD	2	С-В	C2.31		PT	
03-075-550	REINFORCING RING TO SHELL WELD	2	С-В	C2.31		МТ	
03-080-010	TUBESHEET-TO-SHELL WELD	2	C-A	C1.30	UT		
03-080-020	TUBESHEET-TO-SHELL WELD	2	C-A	C1.30	UT		
03-080-030	HEAD CIRCUMFERENTIAL WELD	2	C-A	C1.20	UT		
03-080-040	HEAD CIRCUMFERENTIAL WELD	2	C-A	C1.20	UT		
SYSTEM LEAKAG	GE TEST COMPLETED						
PROCEDURE	SYSTEM	CODE	CODE CATEGORY	CODE ITEM NO.'S	TEST		
SO23-XVII-3.1.1	REACTOR COOLANT	1	В-Р	B15.10 THRU B15.70	VT-2		
SO23-XVII-3.2.1	CHEMICAL AND VOLUME CONTROL	2	С-Н	C7.10 THRU C7.70	VT-2		
SO23-XVII-3.2.4	SAFETY INJECTION	2	С-Н	C7.10 THRU C7.70	VT-2		
\$O23-XVII-3.2.5	CONTAINMENT SPRAY	2	С-Н	C7.10 THRU C7.70	VT-2		
CODE CASES AF	PLICABLE TO 3RD TEN YEAR ISI INTERVAL, 1) N-460, 2) N-481, 3) N-498-1, 4) N-5	504-2, 5) [N-598, 6) N-638-1				

6 ATTACHMENT- 3

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

Unit 3 Cycle 16 Abstract of Records of Repairs and Replacements

[WO	EQID	Class	NIS-2 Date	Work Summary
1	07051478000/001	S31305ML189	III-2	12/17/2009	Pre-fabricated 20" and 6" feedwater piping
2	07051497000/001	S31305ML190	111-2	12/17/2009	Pre-fabricated 20" and 6" feedwater piping
3	800054423	3HV9362	III-2	4/7/2011	Overhaul valve
4	800083442	S31208ML003	III-2	2/25/2010	Install piping modification in CVCS system
5	800083443	S31208ML003	III-2	2/25/2011	Fabricate piping subassembly
6	800160451	S31201MP003	III-1	2/28/2011	Replace RCP seal
7	800167713	S31204MU018	III-1	3/15/2011	Replace 3" check valve
8	800194369	S31305MU448	III-2	4/1/2011	Replaced poppet in check valve
9	800201448	S31204MP016	III-2	4/26/2011	Replace flange bolting
10	800214037	3HV7258	III-2	2/25/2011	Overhaul valve
11	800245079	3PSV0201	III-1	2/28/2011	Replaced pressurizer safety valve
12	800250844	S31201ME087	III-1	4/8/2011	Replaced pressurizer manway bolting
13	800256222	S3RC015H902	III-1NF	2/4/2011	Fabricate pipe support
14	800262389	3PSV9349	111-2	4/1/2011	Replace safety valve
15	800287303	3HV8419	111-2	4/8/2011	Overhaul atmos.dump valve
16	800309155	3PSV0200	III-1	2/28/2011	Replaced pressurizer safety valve
17	800313900	S31204MU019	III-1	3/15/2011	Replaced 3" check valve
18	800313901	S31204MU020	III-1	3/15/2011	Replaced 3" check valve
19	800313902	S31204MU021	III-1	3/15/2011	Replaced 3" check valve
20	800313903	S31204MU072	III-1	3/29/2011	Replaced 8" check valve
21	800313904	S31204MU073	III-1	3/29/2011	Replaced 8" check valve
22	800313905	S31204MU074	III-1	3/30/2011	Replaced 8" check valve
23	800313906	S31204MU075	III-1	3/29/2011	Replaced 8" check valve
24	800363025	S31204ML329	III - 2	4/28/2011	Replace flange bolting
25	800369324	3PSV8403	III-2	2/28/2011	Replaced valve and inlet bolting
26	800369331	3PSV8415	III-2	2/28/2011	Replaced valve and inlet bolting
27	800369335	3PSV8406	III-2	4/15/2011	Replaced valve and inlet bolting
28	800369336	3PSV8410	111-2	4/15/2011	Replaced valve and inlet bolting
29	800369809	3PSV8411	111-2	4/4/2011	Replaced valve and inlet bolting
30	800369811	3PSV8414	III-2	4/4/2011	Replaced valve and inlet bolting
31	800428332	S3SI001H030	III-2NF	1/11/2010	Remove pipe lug for inspection
32	800428910	S3SI001H030	III-2NF	1/11/2010	Reinstalled modified pipe lug
33	800430626	S3SI001H030	III-2NF	1/11/2010	Machined pipe lug to reduce size per ECP
34	800453586	S31220MX034	III-2	4/8/2011	Replaced bolting on Pen 34
35	800457805	S31201MP004	III-1	2/25/2011	Replace RCP seal
36	800460432	S31201ME088	III-1	11/12/2010	Machined primary nozzles
37	800460433	S31301ME089	III-1	11/18/2010	Machined primary nozzles
38	800460434	S31301ME088	III-1	11/10/2010	Machined secondary nozzles
39	800460435	S31301ME089	III-1	11/8/2010	Machined secondary nozzles
40	800460439	S31301ML001 S31301ML002	III-2	1/1/2011	Removed / reinstalled main steam piping to E088 Removed / reinstalled main steam piping to E089
41	800460481	S31301ML002	III-2	1/1/2011	Removed / reinstalled main steam piping to 2009 Removed / reinstalled main steam pipe supports
42 43	800460486	S31301ML002	III-2NF III-2NF	1/5/2011 12/21/2010	• • • • • • • • • • • • • • • • • • • •
44	800460487 800460489	S31305ML190	III-2IVI	1/9/2011	Removed / reinstalled main steam pipe supports Installed new main and aux. Feedwater piping to E089
45	800460490	S31305ML189	III-2 III-2	12/29/2010	Installed new main and aux. Feedwater piping to E088
46	800460490	S31305ML189	III-2NF	1/9/2011	Remove/re-install main and aux. feedwater pipe supports
47	800460492	S31301ME088	III-214F III-1	12/20/2010	Repair arc strike on feedwater nozzle
48	800460493	S31305ML190	III-2NF	1/9/2011	Remove/re-install main and aux. feedwater pipe supports
49	800460494	S31303ML1473	III-21N7	12/11/2010	Installed new valve assembly S31301MU1495
50	800460495	S31301ML1476	III-2 III-2	12/11/2010	Installed new valve assembly S31301MU1498
51	800461227	S31301ME088/089	III-1	1/11/2011	Drill and tap holes for loose part monitor sensors
52	800461229	S31301ME088	III-1NF	1/18/2011	Replaced bolting on lower sliding base support
53	800461231	S31301ME089	III-1NF	1/18/2011	Replaced bolting on lower sliding base support
54	800461232	S31301ME088	III-1	1/11/2011	Machined holes in snubber support lugs on E088

55	800461233	S31301ME089	III-1	1/11/2011	Machined holes in snubber support lugs on E089
56	800461243	S31301ME088	III-1	1/1/2011	Replaced steam generator E088
57	800461245	S31301ME089	III-1	12/31/2010	Replaced steam generator E089
58	800461250	S31301ML015	III-2	1/13/2011	Replaced blowdown piping from E088
59	800461251	S31301ML016	III-2	1/3/2011	Replaced blowdown piping from E089
60	800461252	S31301ML015	III-2NF	1/10/2011	Replaced blowdown piping supports from E088
61	800461253	S31301ML016	III-2NF	1/5/2011	Replaced blowdown piping supports from E089
62	800468246	S32101CS001	N/A	1/18/2011	Replaced containment tendon hardware
63	800468480	S32101CS001	N/A	1/18/2011	Replaced containment tendon hardware
64	800468483	S32101CS001	N/A	1/20/2011	Replaced containment tendon hardware
65	800468484	S32101CS001	N/A	1/20/2011	Replaced containment tendon hardware
66	800476247	S32101CS001	N/A	1/1/2011	Replace rebar in containment opening
67	800476248	S32101CS001	III-NE	12/17/2010	Remove/reinstall containment liner plate
68	800476249	S32101CS001	N/A	2/1/2011	Replacement of concrete in containment opening
69	800476250	S32101CS001	N/A	2/1/2011	Replacement of concrete in containment opening
70	800494646	MSSV Inlet Flange Studs	III-2	10/18/2010	Fabricate 75 Inlet Studs for Main Steam Safety valves
		S31204MU018	III-2 III-1	3/15/2011	
71 72	800507683		III-1 III-1	3/15/2011	VT-1 of new valve hinge pin cover bolting VT-1 of new valve hinge pin cover bolting
	800507685	S31204MU019	III-1 III-1	3/15/2011	J .
73 74	800507687	S31204MU020	III-1 III-1		VT-1 of new valve hinge pin cover bolting VT-1 of new valve hinge pin cover bolting
74 75	800507689	S31204MU021	111-1 111-1	3/15/2011	<i>5</i> .
75 76	800507691	S31204MU072	iii- i iii-1	3/29/2011	VT-1 and VT-3 examinations of new valve VT-1 and VT-3 examinations of new valve
76 77	800507695	S31204MU073	III-1	3/29/2011	
	800507699	S31204MU074	III-1	3/30/2011	VT-1 and VT-3 examinations of new valve VT-1 and VT-3 examinations of new valve
78 70	800507763	S31204MU075		3/29/2011	
79	800511055	S32101CS001	N/A	2/1/2011	Replacement of concrete in containment opening
80	800516738	S31204ML080	III-2	5/4/2011	Install new 6" sch.40s mini-flow piping
81	800516739	S31204ML080	III-2	5/5/2011	Install new 6" sch.40s mini-flow piping
82	800516800	S31204ML080	111-2	5/5/2011	Install new 6" sch.40s mini-flow piping
83	800517039	S31219ML057	III-2	5/3/2011	Install new 6" sch.40s piping
84	800550894	S31204ML080	111-2	5/5/2011	Pre-fabricated 6" ECCS mini-flow piping
85	800550895	S31204ML131	111-2	5/6/2011	Pre-fabricated 4" ECCS mini-flow piping
86	800550896	S31204ML151	111-2	5/6/2011	Pre-fabricated 4" ECCS mini-flow piping
87	800550897	S31219ML107	111-2	5/5/2011	Pre-fabricated 10" piping from RWST
88	800553023	S31219ML107	III-2	5/5/2011	Install new 10" Sch.40s piping from RWST
89	800555453	S3RC015H902	III-1NF	2/4/2011	Replace pipe support
90	800567815	S31219ML057	III-2	5/3/2011	Pre-fabricated 6" piping
91	800571506	S31204ML080	III-2NF	5/5/2011	Pre-fabricate supports for ECCS mini-flow piping
92	800579805	S31204ML080	III-2NF	5/6/2011	Install pipe supports in Room 017
93	800579807	S31204ML080	III-2NF	5/5/2011	Install pipe supports in aux. feedwater pump room
94	800579808	S31219ML107	III-2NF	5/5/2011	Install pipe supports for 10" piping
95	800583669	S31204ML001	III-2	5/2/2011	Pre-fab. 24" ECCS piping
96	800591784	S31208MU070	III-2	4/25/2011	Overhaul globe valve
97	800592040	S31204MU068	III-2	1/18/2011	Replace 2" globe valve
98	800601025	S32101CS001	III-NE	12/17/2010	Remove/reinstall containment liner plate
99	800602362	3HV9371	III-1	2/25/2011	Overhaul Control Valve
100	800608655	S3ST001H008	III-2NF	1/12/2011	Replace snubber
101	800610409	S3FW189H012	III-2NF	1/12/2011	Replace snubber
102	800611066	S31204ML001	III-2	5/2/2011	Replaced 24" ECCS piping
103	800611067	S31219ML057	III-2	5/4/2011	Replaced 6" ECCS piping
104	800611068	S31204ML080	111-2	5/5/2011	Replaced 6" ECCS mini-flow piping
105	800611069	S31204ML080	III-2NF	5/4/2011	Install integral attachments on 6" ECCS mini-flow piping
106	800612785	S3FW190H011T	III-2NF	1/18/2011	Replace load pin
107	800612787	S3FW190H014B	III-2NF	1/18/2011	Replace load pin
108	800612788	S3FW190H015	III-2NF	1/18/2011	Replace load pin
	200012100	20. 17.100.1010	41		. 15p.200 1000 pm

Unit 3 Cycle 16 Abstract of Records of Repairs and Replacements

109	800612789	S3FW190H018N	III-2NF	1/18/2011	Replace load pin
110	800612790	S3FW190H018S	III-2NF	1/18/2011	Replace load pin
111	800613420	S3ST002H001	III-2NF	1/12/2011	Replace damaged load pin
112	800613538	S31204ML001	III-2NF	5/2/2011	Install integral attachments on 24" ECCS piping
113	800613539	S31219ML057	III-2NF	5/4/2011	Install integral attachments on 6" ECCS piping
114	800615888	3PSV9308	111-2	4/26/2011	Install new safety relief valve
115	800631801	S31208MU122	111-1	1/19/2011	Overhaul valve
116	800641603	S3FW190H017	III-2NF	1/24/2011	Re-set pipe support cold settings
117	800461242	S31301ME088	III-1	1/1/2011	Replaced Steam Generator E088
118	800486288	S31208MU122	III-1	1/19/2011	Overhaul Valve

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

As Required by the Provisions of the ASME Code Section XI

 Owner: Southe Address: 2244 Plant: San Ono Address: P.O. I Work Performe Address: 2244 Identification of 40141ASO3 (a) Applicable 	J V T A E	Date: 11/17/200 Unit: 3 Repair/Replace WO: 07051478 Type Code Sym Authorization N Expiration Date dition, Summer	ment Pla 000, 0705 abol Stam No:	n: 060401390- 51478 001 p: N/A N/A N/A				
-	Edition of Sect	lition, 1996 Adden		placemen	t Activity: 1995	5 Edition;	1996 Addenda	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.		Other atification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
20" and 18" Main Feedwater Piping	Pullman Power Prod. and Bechtel	N5 serial no. S3-1305-8	N/A	S3-130	05-ML-189 ·	1978	see block 7	Yes
6" Auxiliary Feedwater Piping	Pullman Power Prod. and Bechtel	N5 serial no. S3-1305-6	N/A	S3-130	05-ML-222	1978	see block 7	Yes
7. Description of W A portion of the main for subsequent installar piping from the down S31301ME088. The off of the 18" main fedocuments used for the all of the associated proteincluded in this work.	and auxiliary fe ation in the R3C stream side of cl specific boundar edwater line to this scope are iten iping subassemb	16 refueling outageneck valve S31305 ry of the auxiliary the second elbow in nized on the suppledies. The ASME 2	e. The specife MU129 to the feedwater line in reverse flow emental sheet KI Preservice	fic bounda e feedwate e in this so direction (attached) Examinat	ry of the main for nozzle connectors includes pipe. The new mate. The constructions, pressure to	eedwater ction of st ping from erials and tion code	line in this scopeam generator the 6" branch of the associated of NDE was comp	connection weld
Reference: NECP 800	139902	·				•		
8. Tests Conducted:			Nomin		ting Pressure:_ Test Temp:		mpt: Ot	her:

NOTE:

Pressure testing to be performed as part of installation work scope in the R3C16 outage.

(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: Any Sa for Al Meichler

Supervising ASME Code Engineer Date: 2/8/2010

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>(129/16)</u> to <u>(129/16)</u>, 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.

MAZONA	Commissions	CA 2093	California
Inspector's Signature	•	(National Board, State,	Province, and Endorsements)

Date 3/12/10

Table 1. Replacement Materials

Drawing No.	Description	RSO No.	Heat No.	Comments
\$3-1305-ML-189.Sh 2.	BOM, item #30, 20" NPS sch 100 pipe, SA-106 Gr C		N48106	note 3
ECN A52649	BOM item #16, 18" NPS, sch 100, BW 90° Elbow. SA-234 Gr WPC	0231-07	NOOK	
	BOM item #26, 6" NPS, sch 120, pipe, \$A-333 Gr 6	1517-07	U90117	note 4
	BOM irem #27, 18"X 6" NPS, WFI Vesselet, SA-350 Gr LF2	0215-07	3859AN F1	
	BOM item #21, 20" NPS X 18" NPS, sch 100 Concentric BW Reducer, SA-234 Gr WPC	0231-07	NODC	
	BOM item #25, 18" NPS, sch 100, BW 30° Elbow, SA-234 Gr WPC	0231-07	NOIS	note I
·	BOM item #28, 6" NPS, seh 120, BW 90° Elbow, SA-420 Gr WPL6	0516-07	NPMP	
	BOM, items #17,22,23, & 24, 18" NPS sch 100 pipe, SA-106 Gr C	1337-07	60839	note 3
	BOM item #10, 18" NPS, sch 100, BW 45° Elbow, SA-234 Gr WPC	0231-07	NOJS	note 7.
S3-1305-ML-222, Sh 1. ECN D0001526	BOM item #25. 6" NPS X 3/4" NPS WFI SW Pipet. 6000#, pipe. SA-333 Gr 6	1660-07	3117AN B1	
_	BOM item #24. 6" NPS, sch 120, pipe, SA-333 Gr 6	1517-07	U90117	note 4
\$3-FW-189-H-010. ECN D0009049	BOM item #30A (2 each), 12" NPS sch 80, dummy stubs, SA-106 Gr C; *Pipe support integral attachment*	0516-07	B26965	WR3-07-259 notes 2 & 3
S3-FW-189-H-012, ECN D0009051	BOM item #30A (1 each), 12" NPS sch 80, dummy stub, SA-106 Gr C: *Pipe support integral attachment*	0516-07	B26965	WR3-07-261 notes 2 & 3
S3-FW-189-H-013. ECN D0000730	BOM item #30A (1 each). 10" NPS sch 80, dummy stub. SA-106 Gr C: *Pipe support integral attachment*	0516-07	L62641	WR3-07-263 notes 2 & 3

Table 2, Pipe Welding Documentation

Fab. Weld ID	Weld Document	Comment	Fab. Weld ID	Weld Document	Comment
BU, note 5	not performed	20" BW	BM, note 5	not performed	18" BW
BT. note 5	WR3-07-195(B)	20" BW	BL, note 5	WR3-07-252(J)	18" BW, note 7
BS, note 5	WR3-07-196(C)	18" BW	BK, note 5	not performed	18" BW, note 6
BR, note 5	WR3-07-197(D)	18" BW	BW, note 5	not performed	6" BW, note 6
BQ, note 5	not performed	18" BW	BX, note 5	WR3-07-257(N)	6" BW
BP, note 5	WR3-07-199(F)	18" BW, note 6	BY, note 5	WR3-07-256(M)	6" BW
BV, note 5	WR3-07-254(BR)	6" branch	P. note 8	WR3-07-321(B1)	3/4" branch
BN, note 5	WR3-07-200(G)	18" BW	Q. note 8	not performed	6" BW

Notes:

- 1. The 30° elbow was fabricated from 45° elbow
- 2. Welding and NDE documented on referenced Weld Record
- 3. Report of Reconciliation RoR 001-07 applies
- 4. Report of Reconciliation RoR 019-03 applies
- 5. See piping ISO S3-1305-ML-189, sh 2 (ECN A52649) for weld location
- 6. PSE was not performed as part of this scope
- 7. Weld to be cut out/existing elbow replaced during installation due to design change after fabrication (special elbow is required)
- 8. See piping ISO \$3-1305-MJ-222, sh 1 (ECN D0001526) for weld location

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

As Required by the Provisions of the ASME Code Section XI

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Type Code Symbol Stamp: N/A Authorization No: N/A 4. Identification of System: Feedwater System (1305), P&ID Authorization No: N/A 4. Identification of System: Feedwater System (1305), P&ID Authorization No: N/A 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda; NDE and acceptance per 1995 Edition, 1996 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Adder Defension of Components: Name of Component Name of Manufacturer Serial No. No. Identification Built Installed 20" and 18" Main Pullman N5 serial no. N/A S3-1305-ML-190 1978 see block Power Prod. and Bechtel 6" Auxiliary Pullman N5 serial no. N/A S3-1305-ML-223 1977 see block Power Prod. S3-1305-5 and Bechtel	methodolog nda d, ASME or Code
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Type Code Symbol Stamp: N/A 4. Identification of System: Feedwater System (1305), P&ID Authorization No: N/A 4. Identification of System: Feedwater System (1305), P&ID Authorization No: N/A System: Feedwater System (1305), P&ID Authorization No: N/A Expiration Date: N/A System: Feedwater System (1305), P&ID Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A System: Feedwater 1974 Addenda; NDE and acceptance per 1995 Edition, 1996 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda System: N/A Authorization No: N/A Expiration Date: N/A Corrected Removed, Installed No. Solution: Peedwater Piping Power Prod. Solution: Solution: N/A Solution: N/A	nda d, ASME or Code d Stamped
4. Identification of System: Feedwater System (1305), P&ID Authorization No: N/A 40141ASO3 Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda; NDE and acceptance per 1995 Edition, 1996 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Adder 5. Identification of Components: Name of Name of Manufacturer Serial No. Board Identification Built Installed 20" and 18" Main Feedwater Piping Power Prod. and Bechtel 6" Auxiliary Feedwater Piping Power Prod. and Bechtel 6" Auxiliary Feedwater Piping Power Prod. and Bechtel 70 Power Prod. S3-1305-5 and Bechtel	nda d, ASME or Code d Stamped
and acceptance per 1995 Edition, 1996 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Adder 5. Identification of Components: Name of Component Name of Manufacturer Serial No. Board Identification Built Installed Installed	nda d, ASME or Code d Stamped
Name of Component Name of Manufacturer Serial No. 20" and 18" Main Feedwater Piping Power Prod. and Bechtel 6" Auxiliary Feedwater Piping Power Prod. and Bechtel National Board No. No. No. No. No. No. No. No.	or Code Stampe
Feedwater Piping Power Prod. and Bechtel 6" Auxiliary Pullman Power Prod. S3-1305-5 Feedwater Piping Power Prod. and Bechtel N5 serial no. N/A S3-1305-ML-223 1977 see block of S3-1305-5	
Feedwater Piping Power Prod. S3-1305-5 and Bechtel	7 Yes
	7 Yes
portion of the main and auxiliary feedwater piping and the associated integrally attached pipe support parts were processively proceeding to the main feedwater line in this sciping from the downstream side of check valve S31305MU036 to the feedwater nozzle connection of steam generated 31301ME089. The specific boundary of the auxiliary feedwater line in this scope includes piping from the 6" brance of the 18" main feedwater line to the second elbow in reverse flow direction. The new materials and the associated procuments used for this scope are itemized on the supplemental sheet (attached). The construction code NDE was coll of the associated piping subassemblies. The ASME XI Preservice Examinations, pressure test and VT-2 Examinator included in this work scope and will be performed as part of the installation work scope.	scope include tor ch connection ed weld ompleted on

Pressure testing to be performed as part of installation work scope in the R3C16 outage.

(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

Al Meichler Supervising ASME Code Engineer Date: 2/8/2010

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 2/12/19 to 1/29/10, 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.

	WAZCHE	Commissions	CA 2093	California
	Inspector's Signature		(National Board, State,	Province, and Endorsements)
Date	3/12/10			

Table 1, Replacement Materials

Drawing No.	Description	RSO No.	Heat No.	Comments
S3-1305-ML-190,	BOM, item #32, 20" NPS sch 100 pipe, SA-106 Gr C	0516-07	N48106	note 3
Sh 2, ECN A52650	BOM item #31, 26, 25, & 22, 18" NPS, sch 100 pipe, SA-106 Gr C	1337-07	60839	note 3
	BOM item #27, 18" NPS, sch 100, BW 30° Elbow, SA-234 Gr WPC	0231-07	NOJU	note 1
	BOM item #24, 20" NPS X 18" NPS, sch 100 Concentric BW Reducer, SA-234 Gr WPC	0231-07	NODC	
	BOM item #30, 6" NPS, sch 120, BW 90° Elbow, SA-420 Gr WPL6	0516-07	NPMP	
	BOM item #29, 18" X 6" NPS, WFI Vesselet, SA-350 Gr LF2	0215-07	3859ANF 1	
	BOM item #28, 6" NPS, sch 120, pipe, SA-333 Gr 6	0686-07	U90117	note 4
	BOM item #21, 18" NPS, sch 100, BW 90° Elbow, SA-234 Gr WPC	0231-07	NOOK	
	BOM, items #11, 18" NPS, sch 100, BW 45° Elbow, SA-234 Gr WPC	0231-07	NOJS	note 7
S3-1305-ML-223,	BOM item #28, 6" NPS, sch 120, pipe, SA-333 Gr 6	0686-07	U90117	note 4
Sh 4, ECN D0001514	BOM item #29, 6" NPS X 3/4" NPS WFI SW Pipet, 6000#, SA-105	1660-07	3117ANB	
S3-FW-190-H-011, ECN D0009054	BOM item # 30A (2 each), 12" NPS sch 80, dummy stubs, SA-106 Gr C; *Pipe support integral attachment*	0516-07	B26965	WR3-07-280 notes 2 & 3
S3-FW-190-H-013, ECN D0009057	BOM item # 30A (1 each), 12" NPS sch 80, dummy stub, SA-106 Gr C; *Pipe support integral attachment*	0516-07	B26965	WR3-07-282 notes 2 & 3
S3-FW-190-H-014, ECN D0000736	BOM item # 30A (1 each), 10" NPS sch 80, dummy stub, SA-106 Gr C; *Pipe support integral attachment*	0516-07	L62641	WR3-07-284 notes 2 & 3

Table 2, Pipe Welding Documentation

Fab. Weld ID	Weld Document	Comment	Fab. Weld ID	Weld Document	Comment
NK, note 5	not performed	20" BW	NC, note 5	not performed	18" BW
NJ, note 5	WR3-07-266(B)	20" BW	NB, note 5	WR3-07-273(J)	18" BW, note 7
NH, note 5	WR3-07-267(C)	18" BW	NA, note 5	not performed	18" BW, note 6
NG, note 5	WR3-07-268(D)	18" BW	NL, note 5	not performed	6" BW
NF, note 5	not performed	18" BW	NM, note 5	WR3-07-278(N)	6" BW
NE, note 5	WR3-07-270(F)	18" BW, note 6	NN, note 5	WR3-07-277(M)	6" BW
NP, note 5	WR3-07-275(BR)	6"branch, note 6	DX, note 8	WR3-07-322(B1)	3/4" branch
ND, note 5	WR3-07-271(G)	18" BW	DW, note 8	not performed	6" BW

Notes:

- 1. The 30° elbow was fabricated from 45° elbow
- 2. Welding and NDE documented on referenced Weld Record
- 3. Report of Reconciliation RoR 001-07 applies
- 4. Report of Reconciliation RoR 019-03 applies
- 5. See piping ISO S3-1305-ML-190, Sh 2 (ECN A52650) for weld location
- 6. PSE was not performed as part of this scope
- 7. Weld to be cut out/existing elbow replaced during installation due to design change after fabrication (special elbow is required)
- 8. See piping ISO S3-1305-ML-223, Sh 4 (ECN D0001514) for weld location

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

As Required by the Provisions of the ASME Code Section XI

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	hern California Edi		^	Date	: 04/06/201	11	Sh	eet I of I	
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770					Unit: 3				
 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 				Repa	ir/Replace	ement Plan	: 800054423-00	010	
	med by: Southern (4 Walnut Grove Av			WO:	80005442	3			
	of System: Safety			Auth	Code Syn orization l ration Dat		o: N/A N/A N/A		
5. (a) Applical	ble Construction (Code: ASME Section	on III, Class	1, 1971 Editio	on, Summe	r 1973 adde	enda		
(b) Applicat	ble Edition of Sect	ion XI Utilized for	Repair/Re	placement Ac	etivity: 199	5 Edition;	1996 Addenda		
6. Identification	of Components:				23 · · · ·				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Oth Identifi		Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No	
2" 1500# Control Valve	Haml-Dahl	74/5797/012	N/A	3HV9	362	1977	Corrected	Yes	
Valve Plug	Flowserve Corp.	S/N: 2 Heat # 724317	N/A	RSO-22 SA479		2002	Installed	Yes	
	f Work: The valve n Leakage Test and		was perform			vice.	aul of valve to c	orrect seat	
							e a Territoria		
8. Tests Conduc	ted: Hydrostatic: Pressure:			inal Operatii <u>N/A</u> °F		e: <u>X</u> Es	xempt: O	ther:	

NOTE:

9.	Remarks:	None.
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(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: Supervising ASME Code Engineer Date: 4 16 2011

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>P/5/10</u> to <u>Ilofo</u>, 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.

	WAZENA	Commissions	NB13402-1	CA2093	California
	Inspector's Signature		(National Board,	State, Province.	and Endorsements)
Date	4/28/11				

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

As Required by the Provisions of the ASME Code Section XI

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 2. Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 4. Identification of System: Chemical & Volume Control System 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S. '74 addenda, NDE methods and acceptance per 1995 Edition, 1996 addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Stam Yes/ 2" Sch.160 pipe Bechtel Corp. S3-VC-003-2A N/A S3-1208-ML-003 1979 Modified No. 2" Sch.160 Pipe, 7" long Power Supply N/A ILN#0100000000065 N/A Installed No. 2 N/A Installed No. 2 N/A Installed No. 2 N/A INSTALLED N/A INSTAL								
2. Plant: San Onofic Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 4. Identification of System: Chemical & Volume Control System: 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S. '74 addenda, NDE methods and acceptance per 1995 Edition, 1996 addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Editior, 1996 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Editior, 1996 Addenda 6. Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Sand Manufacturer Serial No. Board No. Identification Manufacturer No. Installed Sand No. Identification Manufacturer Serial No. Board No. Identification Manufacturer No. Installed N	1. Owner: Southe	ern California Edis	on Company	CA 01770	Date: 2/25/2010)		Sheet 1 of
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: 070500869-33 3. Work Performed by: Southern California Edison Company Address: 2244 Walnat Grove Avenue, Rosentend, CA 91770 4. Identification of System: Chemical & Volume Control System 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S. '74 addenda, NDE methods and acceptance per 1995 Edition, 1996 addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Components Name of Manufacturer National Other Year Removed, or Component Manufacturer Serial No. Board No. Identification Built Installed System System 2" Sch. 160 pipe Bechtel Corp. S3-VC-003-2A N/A S3-1208-ML-003 1979 Modified New System 3" Sch. 160 Pipe, Consolidated Heat # 585930 N/A ILN#010000000065 N/A Installed New System Proves Supply (2) 3 x 2" Sch. 160 Description of Work: A new temperature switch 3TSH9205 was installed in line S3-1208-ML-003 in accordance with NE 800074725. The piping components were per-fabricated in accordance work order 800083442 and weld records WR3-08-032 WR3-08-033 and WR3-08-031 RT examinations were performed on all welds in accordance with the weld records. Tests Conducted: Bydrostatic: Pneumatic: Nominal Operating Pressure: X Exempt: Other: Tests Conducted: Bydrostatic: Pneumatic: Nominal Operating Pressure: X Exempt: Other:		Unit: 3	Unit: 3					
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 4. Identification of System: Chemical & Volume Control System Authorization No: N/A Sypiration Date: N/A Authorization No: N/		Repair/Replace	Repair/Replacement Plan: 070500869-33					
4. Identification of System: Chemical & Volume Control System Authorization Not: N/A 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S. '74 addenda, NDE methods and acceptance per 1995 Edition, 1996 addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Name of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Name of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Name of Name of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Name of Name of Name of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components Name of Name of Name of Name of Name of Name of Section XI II Installed Name of Section XI Installed Name of Sect		WO: 800083442	WO: 800083442, 800083443					
Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Stam Yes/ 2" Sch.160 pipe Spool Bechtel Corp. S3-VC-003-2A N/A S3-1208-ML-003 1979 Modified Nc. 7" long Power Supply SA376 TP316 (2) 3 x 2" Sch.160 Energy & Heat # EZF1 N/A RSO-1566-08 N/A Installed Nc. Concentric Reducer Process Supply SA403 WP316 Description of Work: A new temperature switch 3TSH9205 was installed in line S3-1208-ML-003 in accordance with NE 00074725. The piping components were pre-fabricated in accordance with work order 800083443 and weld records WR3-08-032 WR3-08-033. The pre-fabricated assembly was installed in accordance with work order 800083442 and weld records WR3-08-030 and WR3-08-031. RT examinations were performed on all welds in accordance with the weld records. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: X Exempt: Other:	5. (a) Applicable	Authorization N Expiration Date	Authorization No: N/A Expiration Date: N/A					
Name of Component Manufacturer Serial No. Board No. Libertification Built Installed Stam Yes/ 2" Sch.160 pipe Spool Bechtel Corp. S3-VC-003-2A N/A S3-1208-ML-003 1979 Modified No. 3" Sch.160 Pipe, Power Supply SA376 TP316 N/A Installed No. SA376 TP316 N/A Installed No. Concentric Reducer Process Supply Process Supply Process Supply Process Supply New Yes/ Description of Work: A new temperature switch 3TSH9205 was installed in line S3-1208-ML-003 in accordance with NE 000074725. The piping components were pre-fabricated in accordance wirk order 800083442 and weld records WR3-08-033. The pre-fabricated assembly was installed in accordance with work order 80083442 and weld records WR3-08-030 and WR3-08-031. RT examinations were performed on all welds in accordance with the weld records. System Leakage Test and VT-2 examination was performed piping system returned to service. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: Exempt: Other:	(b) Applicable	Edition of Section	n XI Utilized for J	Repair/Rep	lacement Activity: 1995	Edition;	1996 Addenda	l
Name of Component Manufacturer Serial No. Board No. Libertification Built Installed Stam Yes/ 2" Sch.160 pipe Spool Bechtel Corp. S3-VC-003-2A N/A S3-1208-ML-003 1979 Modified No. 3" Sch.160 Pipe, Power Supply SA376 TP316 N/A Installed No. SA376 TP316 N/A Installed No. Concentric Reducer Process Supply Process Supply Process Supply Process Supply New Yes/ Description of Work: A new temperature switch 3TSH9205 was installed in line S3-1208-ML-003 in accordance with NE 000074725. The piping components were pre-fabricated in accordance wirk order 800083442 and weld records WR3-08-033. The pre-fabricated assembly was installed in accordance with work order 80083442 and weld records WR3-08-030 and WR3-08-031. RT examinations were performed on all welds in accordance with the weld records. System Leakage Test and VT-2 examination was performed piping system returned to service. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: Exempt: Other:	6. Identification of	Components:						
spool 3" Sch. 160 Pipe, Consolidated Power Supply Power S	Name of	Name of		1		1	Removed, or	ASME Code Stamped Yes/No
7" long Power Supply SA376 TP316 Concentric Reducer Process Supply Power Supply Process Supply		Bechtel Corp.	S3-VC-003-2A	N/A	S3-1208-ML-003	1979	Modified	No
Description of Work: A new temperature switch 3TSH9205 was installed in line S3-1208-ML-003 in accordance with NE 00074725. The piping components were pre-fabricated in accordance work order 800083443 and weld records WR3-08-032 VR3-08-033. The pre-fabricated assembly was installed in accordance with work order 800083442 and weld records VR3-08-030 and WR3-08-031. RT examinations were performed on all welds in accordance with the weld records. System Leakage Test and VT-2 examination was performed piping system returned to service. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: X Exempt: Other:	3" Sch.160 Pipe,	l I	Heat # 585930	N/A		N/A	Installed	No
O0074725. The piping components were pre-fabricated in accordance work order 800083443 and weld records WR3-08-032 VR3-08-033. The pre-fabricated assembly was installed in accordance with work order 800083442 and weld records VR3-08-030 and WR3-08-031. RT examinations were performed on all welds in accordance with the weld records. System Leakage Test and VT-2 examination was performed piping system returned to service. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: X Exempt: Other:	· •		Heat # EZF1	N/A		N/A	Installed	No
	00074725. The pipir VR3-08-033. The pre VR3-08-030 and WR	ng components were the components were the components were the components were detected assemble assemble assemble components were components were detected assemble components were components with the components were compo	e pre-fabricated in ply was installed in minations were per	accordance accordance formed on a	work order 800083443 with work order 800083 with work order 800083 welds in accordance w	and weld 3442 and with the w	records WR3-(weld records	vith NECP 08-032 and
Pressure: 2253 psi Test Temp: N/A °F	Tests Conducted:	Hydrostatic:	Pneumatic:	Nomina	Operating Pressure:	X Ex	empt: O	ther:
]	Pressure: 2253	psi	Test Ter	mp: <u>N/A</u> °	F		

8.

NOTE:

FORM NIS-2 (back)

9. Remarks: The 3" pipe is certified to the 1998 Edition, 2000 add. as allowed per reconciliation RoR-014-03.						
(Applicable Manufacturer's Data Reports to be attached) CERTIFICATE OF COMPLIANCE						
Type Code Symbol Stamp: N/A						
Certificate of Authorization No: N/A Expiration Date: N/A						
Signed: Joseph For Al Meich ler Supervising ASME Code Engineer Date: 2/28/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>4/17/09</u> to <u>1/10/11</u> , 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 NB134021, (A2093 California (National Board, State, Province, and Endorsements) Date 3/1/11						

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

As Required by the Provisions of the ASME Code Section XI

			======				=======	
1. Owner: Southern	Date: 2/25/11		S	heet 1 of 1				
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				Unit: 3	Unit: 3			
 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 				Repair/Replacem	Repair/Replacement Plan: GEN-206			
3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				WO: 800160451	WO: 800160451			
4. Identification of S		Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A						
5. (a) Applicable	Construction (lass 1, 1971 Edition, W.'71 a lass 1, 1980 Edition, S. '82 E		•		
(b) Applicable	Edition of Sect	ion XI Utilized for	r Repair/R	eplacement 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-0561	N/A	S31201MP003	1978		Yes	
RCP Mechanical. Seal	Bingham Willamette	1659057-2	1473	SO23-Cart#23	1986	Removed	Yes	
RCP Mechanical. Seal	Bingham Willamette	1659057-11	1219	SO23-Cart#25 Rebuild WO 800121630	1988	Installed	Yes	
	SONGS rebuild er NMO 800605	program under NM 414.	4O 800121	03 was replaced with a spare 630. The removed seal cartri		placed into the		
	ἡ, ἡ τό.	Essent 1990 de 1996 de se	egi kah		. ,	V 244		
					1143			
8. Tests Conducted:	: Hydrostatic	: Pneumatic	: No	minal Operating Pressure:	<u>X</u> E:	xempt:	Other:	

Test Temp: >280

VT-2 Exam. performed per procedure SO23-XVII-3.1.1 Pressure: 2250 psi

(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

For Al Meichler Supervising ASME Code Engineer Date: 4/28/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>7/19/10</u> to <u>2/11/11</u>, 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.

	WAZENA	Commissions NB13402-1 CA2093 California
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	4/28/11	

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: 3/15/2011

Unit: 3

1,4

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 008-10 Rev.0

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800167713, 800507683

4. Identification of System: 1204, Safety Injection System

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

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, Summer 1973 Addenda (valve) 5. (a) ASME Section III, Class 1, 1974 Edition, Summer 1974 addenda (downstream weld) ASME Section III, Class 2, 1974 Edition, Summer 1974 addenda (upstream weld)

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# Check Valve	Flowserve Corp.	BD-671	N/A	S31204MU018	2007	Removed	Yes
3" 1500# Check Valve	Flowserve Corp.	BH-318	N/A	ILN# 10000009379	2009	Installed	Yes

7. Description of Work: The check valve in plant FLOC S3.ECCS. S31204MU018 was replaced with a new style valve that incorporates a resilient seat in accordance with NECP 800129659. Welding Services Inc. (WSI) was contracted to perform the valve replacement in accordance with WSI's OA and welding programs, and SCE's ASME Section XI Program. The Section XI replacement activities were performed per WSI Travelers 203625-TR-001 and 203625-TR-353. The welding and NDE were performed per WSI Weld Data Sheets for welds MD and BS.

The following preservice examinations were performed prior to placing valve into service;

- 1) A VT-1 examination was performed on the hinge pin cover bolting and documented on NDE Report 3VT-001-10.
- 2) A PDI-UT examination was performed on the Class 1 weld (MD) and documented on NDE Report 310-16UT-031.
- 3) PDI-UT and PT examinations were performed on the Class 2 weld (BS) and documented on NDE Reports 310-16UT-032 and 310-16PT-013.

R/R NDE Reports: 20365-PT-024, 203625-PT-025, 3RT-311-10, and 3RT-312-10.

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

Pressure: *See detail below Test Temp: *See detail below °F

*A VT-2 System Leakage Pressure Test was conducted on the ASME III Class 2 side of the valve at 1419 psig. The ASME III class 1 side was examined during the RCS Pressure Boundary Leak test in accordance with ISI procedure SO23-XVII-3.1.1 with the pressure at \geq 2250 psig and the temperature \geq 280° F.

FORM NIS-2 (back)

9. Remarks: All NDE was performed in accordance with ASME Section III, NB/NC, 1995 edition, 1996 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

Date

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Signed: Supervising ASME Code Engineer Date: 3/30/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>Y/9/10</u> to <u>Z/11/11</u>, 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.

WHZEUQ	Commissions	NB/3402-1	CA2093	California
Inspector's Signature	_	(National Board, S	tate, Province,	and Endorsements)

LN-10000009379

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of ______

		·	· · · · · · · · · · · · · · · · · · ·	
1. Manufactured and cert	ified by Flowserve Corporation	n, 1900 South Saunders St	Raleigh, NC 27603	
F				
2. Manufactured for <u>EC</u>	lison Material Supply LLC PO B	OX /UU ROSEMEZO, CA 91/	/UUDUU	
	San Onofre Nuclear Genera		•	
3. Location of installation	Sall Olidite Nuclear Genera	(liame	and address)	
	- 1500 SC	08-50924-01	Rev. C	CON N/A
5. ASME Code Section III	Division 1: 1971	Summer 1973	1 (class)	N/A
J. ASME COCC, OCCION III	(edition)	(addenda date	(class)	(Code Case no.)
6. Pump or valve Valv	e Nominal inlet size	Outle	t size <u>3</u>	
		(in.)	(in.)	
7. Material:				
(a) valve BodySA35		6 Disk SA182F316L	Bolting SA453 GR660B	
(b) pump Casing	Cover	Bolting		
(a)	(b)	(c)	(d)	(e)
Cert.	Nat'l	Body/Casing	Bonnet/Cover	Disk
Holder's Serial No.	Board No.	, Serial No.	Serial No.	Serial No.
BH318	N/A	08339-AA553 /	96568-5	96700-5
BH319	N/A	0918-AA554 /	96568-6	96700-6
BH320	N/A	0918-AA555	96568-7	96700-7
BH321	N/A	0918-AA556	96568-8	96700-8
		<u></u>		

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is $8\frac{1}{2} \times 11$, (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.

FORM NPV-1 (Back — Pg. 2 of ____)

Certificate Holder's Serial No. BH318-BH321
8. Design conditions 2485 psi 650 °F or valve pressure class 1500
9. Cold working pressure 3600 psi at 100°F
10. Hydrostatic test psi. Disk differential test pressure psi
11. Remarks: Bolting is as follows: Stud, SA453-660B, HT. CODE 866; Nut, SA194-8M, HT. CODE CJ7 & AIV Gasket retainer, SA240-316, HT. CODE 32770-5, 6, 7 & 8; Hinge pin cover, SA479-316, HT CODE 32043-410 , 11, 12, & 13.
SO 50924, ITEM 1, SIZE 3, FIGURE 1500 SC VALVE
CERTIFICATION OF DESIGN
Design Specification certified by Long Kim Pham P.E. State CA Reg. no. M23153 Design Report certified by R. A. Sizemore P.E. State NC Reg. no. 029425
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-1562 Expires 11-26-09 Date CIGNOP Name Flowserve Corporation (N Certificate Holder) Signed Guthorized representative)
CERTIFICATE OF INSPECTION
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by Hartford, CT have inspected the pump, or valve, described in this Data Report on 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. Commissions Nuclear Inspector prov. and no.]

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770					Date: 04/01/201	1	S	heet 1 of
	Box 128, San Cle	mente, CA 92672			Repair/Replace	ment Pla	n: ASME Section	on XI Data
3. Work Performe Address: 2244		California Edison venue, Rosemead,			WO: 800194369)		
4. Identification of5. (a) Applicable	·	ary Feedwater Sys			Type Code Sym Authorization N Expiration Date Edition, S. '74 ac	No: e:	p: N/A N/A N/A	
(b) Applicable	Edition of Sect	ion XI Utilized fo	r Repair/Re	placeme	nt Activity: 199	5 Edition;	1996 Addenda	
6. Identification of	Components:				· .			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Ide	Other entification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
4" 900# Y-Globe Lift Check Valve	Atwood & Morrill Co.	4-16188-01	N/A	S31	305MU448	1991	Corrected	Yes
Poppet	Weir Valves and Controls	Serial # 2 Ht# E48493	N/A		10000008114 A516 gr.70	2009	Installed	Yes
7. Description of WA system leakage t	test and VT-2 ex		formed when				nent poppet.	
8. Tests Conducted:		Pneumatic: 			°ating Pressure: °F	X Ex	empt: C	Other:

(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

For Al Meichler Supervising ASME Code Engineer Date: 4/1/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period **Y/5/16** to **Z/12/11**, 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.

	WHZENE	Commissions NG13402-1 CAZ043 California
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	4/29/11	

As Required by the Provisions of the ASME Code Section XI

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				Date: 04/25/2010				
_	T				Unit: 3			
 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 				Repair/Replaceme GEN-239 Rev.1	ent Plan	ı: 800201448-00	010,	
 Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 				WO: 800201448				
4. Identification of System: Safety Injection System				Type Code Symbo Authorization No Expiration Date:		p: N/A N/A N/A		
5.	(a) Applicable Co	onstruction Coc	le: ASME Section	III, Class 2, 1	1974 Edition, S. '74 adde	enda		
	(b) Applicable Ed	lition of Section	XI Utilized for R	epair/Repla	cement Activity: 1995 l	Edition;	1996 Addenda	
6.	Identification of Co	omponents:			1 18 17 18			
Г							Corrected,	ASME
	Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
	Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped Yes/No
5	Spool 3-SI-033-2 & 3	SCE-	'N/A	N/A	S31204ML033	N/A	Corrected	No
	11/8"-8UN x 8" Stud Bolt (20)	Nova Machine Products	Heat # 3005167 Trace Cd.: 4D10	N/A	ILN-10000022979, SA193 gr.B7	N/A	Installed	No
1	1/8"-8UN Heavy Hex Nut (28)	Mackson Inc.	Heat # M82391 Heat Code: ASH	N/A	RSO-2153-06 SA194 gr.7	N/A	Installed	No
1	.1/6"-8UN Heavy Hex Nut (12)	Mackson Inc.	Heat # M82391 Heat Code: ASH	N/A	RSO-2138-06 SA194 gr.7	N/A	Installed	No
le le	ak. The flange bolting ngths of 36" all-threa	was replaced in d rod in accorda	conjunction with the require	he maintenan ements of RI	3P016 was disassemble ace activity. The (20) stu RP GEN-239 Rev.1.	d bolts	were fabricated	
						٠, , ١	(+.d	
8.	Tests Conducted:	Hydrostatic:	Pneumatic:	_ Nomina	l Operating Pressure:_	<u>X</u> _	Exempt:	Other:
	P	ressure: 3	<u>00.4</u> psi Test	Temp:	N/A °F			-

FORM NIS-2 (back)

9. **Remarks:** The stud bolts and heavy hex nuts were certified to the 1989 Edition, no addenda as allowed per reconciliations RoR-002-03 and RoR-012-03 respectively.

(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: Signed: Supervising ASME Code Engineer Date: 4/28/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>E/J/10</u> to <u>1/21/11</u> , 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 NB13402-1 (A2093 California (National Board, State, Province, and Endorsements)					
Date4/29/11					

As Required by the Provisions of the ASME Code Section XI

	thern California E	dison Company Avenue, Rosemead,	CA 91770	Date: 2/25/2011		S	heet 1 of 1		
		, ,	011 31770	Unit: 3					
	onofre Nuclear Ge D. Box 128, San C	nerating Station Elemente, CA 92672	-0128	Repair/Replace	Repair/Replacement Plan: 800214037-0010				
		n California Edison (Avenue, Rosemead, (WO: 80021403	7				
4. Identification of System: Safety Injection System				Authorization N	Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A				
5. (a) Applica	ble Construction	Code: ASME Section	on III, Class	s 2, 1974 Edition, Summer	1975 add	lenda			
(b) Applica	ble Edition of Se	ction XI Utilized for	r Repair/Re	eplacement Activity: 199	5 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		
211 1504 C-4-	NVIZA.	405440	No.	21117250	1070	Competed	Yes/No		
3" 150# Gate Valve	WKM	495442	N/A	3HV7258	1979	Corrected	Yes		
Gate	WKM	Heat # 61123A-58	N/A	Refurbishment MO 99050841	1979	Installed	Yes		
Segment	WKM	Heat # 61123A-76	N/A	Refurbishment MO 99050841	1979	Installed	Yes		
egment during ov	verhaul of valve to e Test and VT-2 e	correct seat leakage	ormed in co	e 3HV7258 was replaced vinjunction with the LLRT,	Appendix	J Test.	ate and		
					٠٠,	v *			
. Tests Conduct	ed: Hydrostatic	: Pneumatic:	Nomi	inal Operating Pressure:	Exc	empt: O	ther: <u>X</u>		
	Pressure:	55psi Te	st Temp:	N/A°F					

(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: Just for AI Meich ler Supervising ASME Code Engineer Date: 2/25/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>10/29/10</u> to <u>1/16/11</u>, 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.

	WHZCHa	Commissions	NB13402-1	CA2093	California
	Inspector's Signature		(National Board,	State, Province,	and Endorsements)
Date	4/27/11				

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: 02/23/2011 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-215

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800245079

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

N/A N/A

10 18 m. J. J. J.

4. Identification of System: Reactor Coolant System

Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, no addenda - Valve ASME Section III, Class 1, 1974 Edition, S.'74 addenda -Bolting

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

6. Identification of Components:

5. (a)

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	BS-03209	N/A	3PSV0201	1978	Removed	Yes
6" x 8" Pressurizer Safety Valve	Dresser Flow Control	BS-03210	₩/A	ILN-,10000028442	1978	Installed	Yes
2"-8UN x 14½" Stud Bolt (7)	Mackson Inc.	Heat # 778128 Trace Code "BVK"	N/A	ILN-10000014204 SA193 Gr.B7	N/A	Installed	No
2"-8UN x 14½" Stud Bolt (1)	Mackson Inc.	Heat # 11736340 Trace Code "BMY"	N/A	RSO-1552-07 SA193 Gr.B7	N/A	Installed	No
2"-8UN Heavy Hex Nut (16)	Mackson Inc.	Heat # 8876873 Trace Code "S298"	N/A	RSO-1060-02 SA194 Gr.7	N/A	Installed	No

7. Description of Work:

NOTE:

Pressurizer safety valve located in plant position 3PSV0201 was replaced with a refurbished and tested spare valve (S/N BS-03210) as a preventative maintenance action. (8) inlet flange stud bolts and (16) inlet flange heavy hex nuts were replaced in-kind in conjunction with the valve replacement. A VT-1 inspection was performed on all new stud bolts and nuts and documented on NDE Report 3VT-014-10.

3.	Tests Conducted:	Hydrostatic:	_	Pneumati	ic:	Nominal	Operati	ng Pressure: X	Exempt:	Other:
	F	Pressure: 2	250_	psia	Test Ter	np: <u>>28</u>	<u>0</u> °F (V	T-2 performed pe	er SO23-XVII-3.	1.1)

(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: Supervising ASME Code Engineer Date: 2/28/2011

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>7/29/10</u> to <u>Juliu</u>, 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.

	WAZENA	Commissions NB 13402 -1 CA 2093 California
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	4/22/11	

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: 4/8/2011 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-240

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800250844

Type Code Symbol Stamp: N/A Authorization No:

N/A

Expiration Date:

N/A

4. Identification of System: Mechanical Penetration

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S. '71 addenda

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
Pressurizer	CE	70603	21496	S31201ME087	1977	Corrected	Yes
1½" x 14¼" Stud (1)	Energy Steel & Supply	Heat # 96894 Heat Code: DUE5	N/A	RSO-1116-97, SA540 gr.B24 Class 3	N/A	Installed	No
1½" Hex Nut (1)	Westinghouse Electric	Ht # 7421869	N/A	RSO-2503-04, SA193 gr.B7	N/A	Installed	No

7. Description of Work: The pressurizer manway was removed and reinstalled to support the R3C16 outage activities. All studs and nuts were VT-1 examined upon removal. The stud in hole location #1 were found to be unacceptable during VT-1 examination. The stud and nut at this location were replaced in-kind. A VT-1 examination was performed on the new replacement stud and nut with satisfactory results and documented on 3VT-010-10. A VT-2 examination and system leakage test was performed on the manway connection during start-up in accordance with procedure SO23-XVII-3.1.1

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

> Test Temp: ≥ 280 °F Pressure: 2250 psi

FORM NIS-2 (back)

TORM MIS-2 (back)
9. Remarks: The replacement stud was certified to the 1989 Edition, no add. as allowed per reconciliation RoR-025-03
(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: Ang For Al Meichler Supervising ASME Code Engineer Date: 4/8/11
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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>V/s/10</u> to <u>2/8/11</u> , 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

MAZCUS Commissions NOISYOZ-I A2093 California (National Board, State, Province, and Endorsements)

this inspection.

Date <u>4/28//1</u>

As Required by the Provisions of the ASME Code Section XI

1	. Owner: Southern C Address: 2244 Wa			01770	Date: 2/01/2011		Sh	eet 1 of 1
	Address. 2244 Wa	mut Grove Avenue	t, Rosellieau, CA	91//0	Unit: 3			
2	Plant: San Onofre Address: P.O. Box		_	28	Repair/Replacem	ent Plan	ı: 800555453-0	010
3	. Work Performed b Address: 2244 Wa				WO: 800256222,	8005554	153	
4	. Identification of Sy				Type Code Symbo Authorization No Expiration Date:	_	p: N/A N/A N/A	
5	5. (a) Applicable C	onstruction Code	: ASME Section	III, Class 1-	NF, 1974 Edition, S. '74	addenda	1	
	(b) Applicable E	dition of Section 2	XI Utilized for F	Repair/Repl	acement Activity: 1995	Edition;	1996 Addenda	
6	. Identification of C	omponents:						
	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
	40-12 Pipe Clamp	Sanwa Tekki		N/A	S3RC015H902	N/A	Removed	No
	40-12 Pipe Clamp	Anvil		N/A	ILN-10000027220 * See Block 7	N/A	Installed	No
1 2 3		stallation of pipe clamp at Code PL-654 cat Code PL-628 36, Heat Code B-1	d the old and ins lamp assembly. ssembly:	talled the ne	2 and Weld Record WR2 w jet impingement guide	assembl		
	5. 1¼" - 7 Jam Nut, SA							
8	3. Tests Conducted:	Hydrostatic:	Pneumatic:_	Nomin	al Operating Pressure:	Ex	kempt:	Other: <u>X</u>
	1	Pressure: N	/A psi	Test T	emp: <u>N/A</u>	°F		

NOTE:

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: 2/4/11 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

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>10/12/10</u> to <u>1/10/11</u>, 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.

	MZEMA	Commissions	NB13402-1	CA 2093	California	
	Inspector's Signature	(N	ational Board, Sta	te, Province, ar	nd Endorsements)	
Date _	4/18/11					

As Required by the Provisions of the ASME Code Section XI

	•	CA 91770)			S	Sheet 1 of 1
6 N 1 G				Unit: 3			
		-0128				n: ASME SEC	TION XI
				WO: 800262389			
	·			Authorization No Expiration Date:):	N/A N/A	
e Construction	Code: ASME Section	on III, Clas	ss 2, 1974	Edition, Summer	74 addei	nda	
e Edition of Sec	tion XI Utilized for	r Repair/F	Replacem	ent Activity: 1995	Edition;	1996 Addenda	L
Components:							
Name of Manufacturer	Manufacturer Serial No.	National Board	Id	Other lentification	Year Built	Corrected, Removed, or Installed	Stamped
	N60061-00-0004	No. N/A		3PSV9349	1984	Removed	Yes/No Yes
	N60061-00-0002	N/A			1978	Installed	Yes
Mackson Inc.	Heat # 806834	N/A			N/A	Installed	No
ef valve in plant cactivity. (1) sto a all-thread mate lve (S/N: 60061-	ud was found to hav rial in accordance w .00-0004) was place	e thread day with RRP-Corrections and into the	nmage and GEN-239 I	d was replaced in-k Rev.1. ebuild program to b	ind. The	5½" long repla	cement
			-	-	<u>X</u> Ex	empt:(Other:
	walnut Grove A ofre Nuclear Gen Box 128, San Cl ed by: Southern Walnut Grove A f System: Safety e Construction e Edition of Sec f Components: Name of Manufacturer e Crosby Valve & Gage e Crosby Valve & Gage Mackson Inc. Work: ef valve in plant c activity. (1) str n all-thread mate live (S/N: 60061-	ed by: Southern California Edison (Walnut Grove Avenue, Rosemead, Grove Avenue, Rosemead, Grove Safety Injection / Shutdown of System: Safety Injection / Shutdown of System: Safety Injection / Shutdown of System: Safety Injection / Shutdown of Section XI Utilized for Components: Name of Manufacturer	Walnut Grove Avenue, Rosemead, CA 91770 ofre Nuclear Generating Station Box 128, San Clemente, CA 92672-0128 ed by: Southern California Edison Company Walnut Grove Avenue, Rosemead, CA 91770 f System: Safety Injection / Shutdown Cooling e Construction Code: ASME Section III, Class e Edition of Section XI Utilized for Repair/F f Components: Name of Manufacturer National Board No.	Walnut Grove Avenue, Rosemead, CA 91770 offer Nuclear Generating Station Box 128, San Clemente, CA 92672-0128 ed by: Southern California Edison Company Walnut Grove Avenue, Rosemead, CA 91770 f System: Safety Injection / Shutdown Cooling System e Construction Code: ASME Section III, Class 2, 1974 e Edition of Section XI Utilized for Repair/Replacem f Components: Name of Manufacturer National Board Rosement No.	Walnut Grove Avenue, Rosemead, CA 91770 If the Nuclear Generating Station Box 128, San Clemente, CA 92672-0128 Repair/Replacen DATA-0207, GET and by: Southern California Edison Company Walnut Grove Avenue, Rosemead, CA 91770 If System: Safety Injection / Shutdown Cooling System Safety Injection / Shutdown Cooling System Captifaction Date: Construction Code: ASME Section III, Class 2, 1974 Edition, Summer of Expiration Date: Components: Name of Manufacturer National Other Manufacturer Serial No. Board Identification No. Board Iden	Walnut Grove Avenue, Rosemead, CA 91770 Offe Nuclear Generating Station Box 128, San Clemente, CA 92672-0128 Repair/Replacement Pla DATA-0207, GEN-239 WO: 800262389 If System: Safety Injection / Shutdown Cooling System Safety Injection / Shutdown Cooling System Type Code Symbol Stam Authorization No: Expiration Date: Construction Code: ASME Section III, Class 2, 1974 Edition, Summer '74 adder Redition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; Components: Name of Manufacturer National Board Identification Built No.	Walnut Grove Avenue, Rosemead, CA 91770 Sife Nuclear Generating Station Box 128, San Clemente, CA 92672-0128 Box 128, San Clemente, Can Clemente, Ca 92672-018 Box 128, San Clemente, Ca 92672-018 Bo

NOTE:

FORM NIS-2 (back)

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: Meichler Supervising ASME Code Engineer Date: 4/1/16 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION	
Section XI. Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Signed: Meichler Supervising ASME Code Engineer Date: 4/1/16 Owner or Owner's Designee, Title	
Certificate of Authorization No: N/A Expiration Date: N/A Signed: Meichler Supervising ASME Code Engineer Date: 4/1/19 Owner or Owner's Designee, Title	
Signed: My Stor Al Meichler Supervising ASME Code Engineer Date: 4/1/19 Owner or Owner's Designee, Title	
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 at State or Province of <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components describe this Owner's Report during the period <u>11/12/10</u> to <u>1/21/11</u> , and state that to the best of my knowledge and belie Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with requirements of the ASME Code, Section XI.	d in ef, the
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning 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 this inspection.	loyer
Macha Commissions NB13402-1 CA2093 California	
Inspector's Signature (National Board, State, Province, and Endorsements)	
Date4/28/11	

As Required by the Provisions of the ASME Code Section XI

	them California Ed 44 Walnut Grove A	lison Company Avenue, Rosemead,	CA 91770	Date: 04/06/201	1 1	S	hect 1 of 1
	nofre Nuclear Gen			Unit: 3			
		emente, CA 92672	-0128	Repair/Replace	ment Pla	n: 800287303-0	0010
	•	California Edison (WO: 80028730	3		
	of System: Safety		CA 91770	Type Code Syn Authorization I Expiration Date	No:	p: N/A N/A N/A	
5. (a) Applica	ble Construction	Code: ASME Secti	on III, Class	2, 1974 Edition, Summer	1974 add	enda	
(b) Applica	ble Edition of Sec	tion XI Utilized fo	r Repair/Re	placement Activity: 199	5 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 12" 900# Drag Valve	B&W/Control Components	18447-3-3	N/A	3HV8419	1979	Corrected	Yes
Valve Plug	Control Components Inc.	S/N: 3 Heat # 242292	N/A	RSO-1627-00 SA182-F11	2000	Installed	Yes
1-3/8"-8UN-2A x 8-5/8" stud bolt (4)	Nova Machine Products	Ht.# 54395 Lot # 326 Ht. Code: ESW	N/A	RSO-0537-97 SA193 gr.B7	N/A	Installed	No
1-3/8"-8UN-2A x 8-5/8" stud bolt (4)	Mackson Inc.	Ht#: 680S086 Ht.Code: AHF	N/A	RSO-0007-07 SA193 gr.B7	N/A	Installed	No
1-3/8" Heavy Hex Nut (14)	Mackson Inc.	Ht.# M82952 Ht. Code: AVM	N/A	ILN-10000007021 SA194 gr.7	N/A	Installed	No
f valve to correct he stud bolts wer	seat leakage. (8) nee fabricated from (ts and (14) n		-		

Pressure: 1011 psia Test Temp: N/A °F

FORM NIS-2 (back)
9. Remarks: The replacement bolting was certified to the 1989 Edition, no add. as allowed per RoRs 002-03 & 012-03.
(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: Supervising ASME Code Engineer Date: 4/8/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>BISIO</u> to <u>2/12/11</u> , 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.

Date 4/29/11

Commissions N613402-1 CA2093 California
(National Board, State, Province, and Endorsements)

DESI AVAILABLE COPY

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

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

Pg. 1 of 2

Manufactured and certified by	C C I, 22591 .	Avenida Empre. (name and ad	sa, Rancho dress of Certifi		jarita, CA 9.	2688
Manufactured for SOUTHERN CA	LIFORNIA EDISON, SAI	,		oute Holdery		
		ame and address of				
	•		,			
ocation of installation SAN ONOF	RE NUCLEAR GENERA					
		(name a	and address)			
ype 320601245	SA 182 - F11	70,000	PSI	N/A		2000
(drawing no.)	(mat'l spec. no.)	(tensile str		(CRN)		(year built)
SME Code, Section III, Division 1:	1974	SUMMER 1974		2		N//A
· · · · · · · · · · · · · · · · · · ·	(edilion)	(addenda date)	- (cla	nss)		Case no.)
triant (f	,		`	,	•	,
bricaled in accordance with Const. Sp	ec. (div. 2 only)	N/A	Revision	N/A	Date	N/A
5051111115		(no.)				
marks <u>FOR MAIN STEAM ATMC</u> CCI WORK ORDER 100072, CCI SF	SPHERIC DUMP VALVE	ES				
COLVENION ON DER TOURIZ, COLS	U#134111				·	
						<u> </u>
n. thickness (in.) 3.0 Mi	n. design thickness	2,669 Dia.	1D (fl.R.lb.) 1	N/A 1 ar	anth overall /ft .	Pin) is
en applicable, Certificate Holders' Dat	-		ID (fl & In.)!	.Lei	ngth overall (ft	۵ III.)
Part or Appurtenance	National		Part or Appu	irtenance	Nati	onal
Serial Number	Board No.		Serial Nu	ımber	Воаго	d No.
	ın Numerical Ordei	•			in Numeri	cal Order
(1)						
(1.) <u>134111 S/N 1</u> (2.) <u>134111 S/N 2</u>	N/A N/A	(26.)			·····	
(3.) 134111 S/N 3		(27.)				
	(N/E.					
(4.)	N/£.	- $(28.)$ $-$		j		
(5.)		(28.)				
(5.) (6.)		(28.) (29.) (30.) (31.)				
(5.) (6.) (7.)		(28.) (29.) (30.) (31.) (32.)				
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(5.) (6.) (7.) (8.)		(28.) (29.) (30.) (31.) (32.) (33.) (34.)				
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(5.) (6.) (7.) (8.) (9.) (9.) (1.) (1.) (2.)		(28.) (29.) (30.) (31.) (32.) (33.) (34.) (35.) (36.) (37.)				
(5.) (6.) (7.) (8.) (9.) (0.) (1.) (2.)		(28.) (29.) (30.) (31.) (32.) (33.) (34.) (35.) (36.) (37.) (38.)				
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(5.) (6.) (7.) (8.) (9.) (0.) (1.) (2.) (3.) (4.) (5.)		(28.) (29.) (30.) (31.) (32.) (33.) (34.) (35.) (36.) (37.) (38.) (39.) (40.)				
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(5.) (6.) (7.) (8.) (9.) (9.) (1.) (2.) (3.) (5.) (5.) (6.)		(28.) (29.) (30.) (31.) (32.) (33.) (34.) (35.) (36.) (37.) (38.) (39., (40.) (41.) (42.) (42.) (43.) (44.) (45.)				
(5.) (6.) (7.) (8.) (9.) (9.) (1.) (2.) (3.) (4.) (5.) (3.) (4.) (5.) (6.)		(28.) (29.) (30.) (31.) (32.) (33.) (34.) (35.) (36.) (37.) (38.) (39., (40.) (41.) (42.) (42.) (43.) (44.) (45.) (46.) (47.)				
(5.) (6.) (7.) (8.) (9.) (9.) (1.) (2.) (3.) (4.) (5.) (3.) (7.) (8.) (9.) (9.) (1.) (1.) (1.) (1.) (1.) (1.) (1.) (1		(28.) (29.) (30.) (31.) (32.) (33.) (34.) (35.) (36.) (37.) (38.) (39., (40.) (41.) (42.) (42.) (43.) (44.) (45.) (46.) (47.) (48.)				
(5.) (6.) (7.) (8.) (9.) (9.) (1.) (2.) (3.) (4.) (5.) (5.) (5.) (6.) (7.)		(28.) (29.) (30.) (31.) (32.) (33.) (34.) (35.) (36.) (37.) (38.) (39., (40.) (41.) (42.) (42.) (43.) (44.) (45.) (46.) (47.) (48.) (49.)				

Form N-2

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

CERTIFICATE OF INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and a State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY have inspected these items described in this Data Report on E-24-2000, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated use parts or appurtenances in accordance with ASME Section III, Division 1. Each part listed has been authorized for stamping on the date shown have. signing this certificate, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this taken any personal injury or property damage or loss of any kind arising from or connected with this inspection.					See Pg. T	
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) PLUGS conforms to the rules of construction of the ASME Code, Section III, Division 1. NPT Certificate of Authorization No. N-2696 Expires JUNE 7, 2003 ONE OF CERTIFICATE OF INSPECTION CERTIFICATE OF INSPECTION The undersigned, holding 2 valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY HARTFORD CONNECTICUT have inspected these items described in this Data Report on E.A. ZOOC and state that to the best of my knowledge and belief, the Certificate Holder has fabricated see parts or apputtenances in accordance with ASME Section III, Division 1. Each part listed has been authorized for stamping on the date shown we. Signing this certificate, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this as Report. Furthermore, neither the inspector nor his employer shall be liable in any manner any personal injury or property damage or lossfof any kind arising from or connected with this inspection.		CERTIFI	CATE OF DESIG	SN		
CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this (these) PLUGS PLUGS PLUGS PLUGS PLUGS PLUGS PLUGS PLUGS PPT Certificate of Authorization No. N-2696 Expires JUNE 7, 2003 PROTECTIFICATE OF INSPECTION In Undersigned, holding 2 valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and a State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY HARTFORD CONNECTICUT have inspected these items described in this Data Report on PROTECTION And state that to the best of my knowledge and belief, the Certificate Holder shown one. Signing this certificate, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this a Report. Furthermore, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this a Report. Furthermore, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this are province, neither the inspector nor his employer shall be liable in any manner any personal injury or property damage or pass for any kind arising from or connected with this inspection.	Design Specification certified by	DELBERT C. UNRUH	P.E. State	CA	Reg. No.	12634
We certify that the statements made in this report are correct and that this (these) PLUGS PROPERTIES JUNE 7, 2003 PROPERTIES JUNE 7, 2003 PROPERTIES PLUGS PL	Design Report * certified by		P.E. State	N/A	Reg. no.	N/A
NPT Certificate of Authorization No. N-2696 Signed CCI (NPT Certificate Holder) CERTIFICATE OF INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and estate or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY HARTFORD, CONNECTIOUT Hartford, Connecticut And state that to the best of my knowledge and belief, the Certificate Holder has fabricated see parts or appurtenances in accordance with ASME Section III, Division 1. Each part listed has been authorized for stamping on the date shown once. Signing this certificate, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this are Report. Furthermore, neither the inspector nor his employer shall be liable in any manner any personal injury or property damage or loss/fol any kind arising from or connected with this inspection.		CERTIFICAT	E OF COMPLIA	VCE		And the second seco
CERTIFICATE OF INSPECTION the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and a State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY HARTFORD CONNECTICUT have inspected these items described in this Data Report on E-24-2000, and state that to the best of my knowledge and belief, the Certificate Holder has fabricate use parts or appurtenances in accordance with ASME Section III, Division 1. Each part listed has been authorized for stamping on the date shown to be a Report. Furthermore, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this taken any personal injury or property damage or loss/of any kind arising from or connected with this inspection.	conforms to the rules of constructi	de in this report are correc on of the ASME Code, Sec	t and that this (If tion III, Division	nese) 1.	PLUC	GS
CERTIFICATE OF INSPECTION the undersigned, holding 2 valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY have inspected these items described in this Data Report on 8 - 24 - 2000, and state that to the best of my knowledge and belief, the Certificate Holder has fabricate see parts or appurtenances in accordance with ASME Section III, Division 1. Each part listed has been authorized for stamping on the date shown ove. signing this certificate, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this la Report. Furthermore, neither the inspector nor his employer shall be liable in any manner any personal injury or property damage or loss/of any kind arising from or connected with this inspection.	NPT Certificate of Authorization No.	N-269	96		Expires J	UNE 7, 2003
CERTIFICATE OF INSPECTION the undersigned, holding 2 valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY HARTFORD CONNECTIOUT have inspected these items described in this Data Report on and state that to the best of my knowledge and belief, the Certificate Holder has fabricate see parts or appurtenances in accordance with ASME Section III, Division 1. Each part listed has been authorized for stamping on the date shown ove. signing this certificate, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this has Report. Furthermore, neither the inspector nor his employer shall be liable in any manner any personal injury or property damage or loss/of any kind arising from or connected with this inspection.	ate 840 MC OD Name	CCI	Signed	Mis	Jack Dr.	
the undersigned, holding 2 valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and a State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY have inspected these items described in this Data Report on E-24-2000, and state that to the best of my knowledge and belief, the Certificate Holder has fabricate use parts or appurtenances in accordance with ASME Section III, Division 1. Each part listed has been authorized for stamping on the date shown love. signing this certificate, neither the inspector nor his employer makes warranty, expressed or implied, concerning the equipment described in this large Report. Furthermore, neither the inspector nor his employer shall be liable in any manner any personal injury or property damage or loss/lof any kind arising from or connected with this inspection.				D 1	Authorized repres	Sentative)
State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY HARTFORD CONNECTICUT have inspected these items described in this Data Report on California		CERTIFICATE	OF INSPECTIO)N	·	
	e State or Province of CALIFORNIA an HARTFORD CONNECTICUT E - 24 - 2000 ese parts or appurtenances in accordance to cove. It signing this certificate, neither the inspental Report. Furthermore, neither the inspental Report.	d employed by <u>HARTFORD ST</u> have inspected the part of	EAM BOILER INS nese items describe to the best of my kron 1. Each part listerranty, expressed cliable in any manne of connected with the	PECTION AND d in this Data F nowledge and be ed has been au or implied, cond t his inspection.	O INSURANCE C Report on Delief, the Certifica Ithorized for stamp Perning the equipm	ate Holder has (abricated ping on the date shown

BEST AVAILABLE COPY

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

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: GEN-215

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

Type Code Symbol Stamp: N/A

Date: 02/23/2011

WO: 800309155

Unit: 3

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, 1974 Edition, no addenda - Valve ASME Section III, Class 1, 1974 Edition, S.'74 addenda -Bolting

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	BU-06254	N/A	3PSV0200	1980	Removed	Yes
6" x 8" Pressurizer Safety Valve	Dresser Flow Control	BS-03211	N/A	ILN-10000028442	1978	Installed	Yes
2"-8UN x 14½" Stud Bolt (3)	Mackson Inc.	Heat # 11505330 Trace Code "AQJ"	N/A	RSO-0297-03 SA193 Gr.B7	N/A	Installed	No
2"-8UN x 14½" Stud Bolt (5)	Mackson Inc.	Heat # 11736340 Trace Code "BMY"	N/A	RSO-1552-07 SA193 Gr.B7	N/A	Installed	No
2"-8UN Heavy Hex Nut (16)	Mackson Inc.	Heat # 8876873 Trace Code "\$298"	N/A	RSO-1060-02 SA194 Gr.7	N/A	Installed	No

7. Description of Work:

Pressurizer safety valve located in plant position 3PSV0200 was replaced with a refurbished and tested spare valve (S/N BS-03211) as a preventative maintenance action. (8) inlet flange stud bolts and (16) inlet flange heavy hex nuts were replaced in-kind in conjunction with the valve replacement. A VT-1 inspection was performed on all new stud bolts and nuts and documented on NDE Report 3VT-013-10.

8.	Tests Conducted: Hydrostatic:		Pneumatic:	Nominal Operating Pressure: X	Exempt:	Other:
	I	Pressure: 2250	psia Test [Temp: ≥280 °F (VT-2 performed perfo	er SO23-XVII-3.	.1.1)

Λ	D.		1	None
4	K P	mar		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: Just for Al Meichler Supervising ASME Code Engineer Date: 2/28/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>7/79/10</u> to <u>2/11/11</u>, 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 NB13402-1 CA2093 California

(National Board, State, Province, and Endorsements)

Date U/ZZ/II

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company	Date: 3/15/2011	Sheet 1 of
--	-----------------	------------

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

1

Unit: 3

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 007-10 Rev.0

3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 WO: 800313900, 800507685

4. Identification of System: 1204, Safety Injection System

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

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, Summer 1973 Addenda (valve) 5. (a) ASME Section III, Class 1, 1974 Edition, Summer 1974 addenda (downstream weld) ASME Section III, Class 2, 1974 Edition, Summer 1974 addenda (upstream weld)

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

6. Identification of Components:

NOTE:

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# Check Valve	Flowserve Corp.	AW405	N/A	S31204MU019	2004	Removed	Yes		
3" 1500# Check Valve	Flowserve Corp.	BH-317	N/A	ILN# 10000009362	2009	Installed	Yes		
الله الله الله الله الله الله الله الله									

7. Description of Work: The check valve in plant FLOC S3.ECCS. S31204MU019 was replaced with a new style valve that incorporates a resilient seat in accordance with NECP 800129659. Welding Services Inc. (WSI) was contracted to perform the valve replacement in accordance with WSI's QA and welding programs, and SCE's ASME Section XI Program. The Section XI replacement activities were performed per WSI Travelers 203625-TR-001 and 203625-TR-352. The welding and NDE were performed per WSI Weld Data Sheets for welds U and T.

The following preservice examinations were performed prior to placing valve into service;

- 1) A VT-1 examination was performed on the hinge pin cover bolting and documented on NDE Report 3VT-004-10.
- 2) A PDI-UT examination was performed on the Class 1 weld (U) and documented on NDE Report 310-16UT-039.
- 3) PDI-UT and PT examinations were performed on the Class 2 weld (T) and documented on NDE Reports 310-16UT-039 and 310-16PT-014.

R/R NDE Reports: 20365-PT-039, 203625-PT-040, 3RT-335-10, and 3RT-336-10.

8.	Tests Conducted: Hydrostatic:	Pneumatic:	Nominal Operating	Pressure: X Ex	empt:	Other:
	Pressure:	*See detail below	Test Temp:	*See detail below	<u>/</u> °F	

*A VT-2 System Leakage Pressure Test was conducted on the ASME III Class 2 side of the valve at 1442 psig. The ASME III class 1 side was examined during the RCS Pressure Boundary Leak test in accordance with ISI procedure SO23-XVII-3.1.1 with the pressure at \geq 2250 psig and the temperature \geq 280° F.

FORM NIS-2 (back)

9.	Remarks: All NDE was performed in accordance with ASME Section III, NB/NC, 1995 edition, 1996 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: Supervising ASME Code Engineer Date: 3/30/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>\$\sigma(6/10)\$</u> to <u>\frac{11111}</u> , 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

NB13402-1

(National Board, State, Province, and Endorsements)

Date 4/25/11

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603 2: Manufactured for Edison Material Supply LLC PO Box 700 Rosemead, CA 917700000 3. Location of installation San Onofre Nuclear Generating Station 14300 Mesa Rd. San Clemente, CA 92672 4. Model No., Series No., or Type 1500 SC Drawing Rev. 1971 Summer 1973 5. ASME Code, Section III, Division 1: Nominal inlet size 3 Outlet size _ 6. Pump or valve 7. Material: Bonne \$ A182 F316 Bod SA351 CF8M Disk SA182F316L Bolting SA453 GR660B (a) valve Cover Bolting _ (b) pump (b) (c) (a) Body/Casing Bonnet/Cover Cert. Nat'l Disk Serial Holder's Board Serial Serial No. No. Serial No. No. No. 0918-AA560 N/A 96568-1 96700-2 \$BH317 V

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8¹/₂ x 11, (2) information in items 1 through 4 on this Data Report luded on cach sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back — Pg. 2 of ____)

	Certificate Holder's Serial No. BH317
8. Design conditions 2485 psi 650 °F	or valve pressure class 1500
9. Cold working pressure 3600 psi at 100°F	·
10. Hydrostatic test psi. Disk differential test pressure	3600 · ps
11. Remarks: Bolting is as follows: Stud, SA453-660B, HT. CODE 866; Null Gasket retainer, SA240-316, HT. CODE 32770-1; Hinge pir	
SO 50924, ITEM 8, SIZE 3, FIGURE 1500 SC VALVE	
CERTIFICATION C	F DESIGN
Design Specification certified by Long Kim Pham Design Report certified by R. A. Sizemore	P.E. State CA Reg. no. M23153 P.E. State NC Reg. no. 029425
We certify that the statements made in this report are correct and that ASME Code, Section III, Division 1. N Certificate of Authorization No. N-1562 Date 6-34-09 Name Flowserve Corporation IN Certificate Holder)	
CERTIFICATE OF IN	ISPECTION
in accordance with the ASME Code, Section III, Division 1. By signing this certificate neither the inspector nor his employer makes any win this Data Report. Furthermore, neither the inspector nor his employer shall or a loss of any kind arising from or connected with this inspection.	HSB CT have inspected the pump, or valve, described in this Data Report on and belief, the Certificate Holder has constructed this pump, or valve, varranty, expressed or implied, concerning the component described
Date 6 30 0 Signed (Authorized Nuclear Inspector)	(Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

As Required by the Provisions of the ASME Code Section XI

1. Owner:	: Southern California Edison Company	Date: 3/15/2011	Sheet 1 of 1
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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: 005-10 Rev.0

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

WO: 800313901, 800507687

4. Identification of System: 1204, 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, Summer 1973 Addenda (valve)

ASME Section III, Class 1, 1974 Edition, Summer 1974 addenda (downstream weld)

ASME Section III, Class 2, 1974 Edition, Summer 1974 addenda (upstream weld)

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

6. Identification of Components:

NOTE:

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# Check Valve	Anchor-Darling	1N-204	N/A	S31204MU020	1976	Removed	Yes
3" 1500# Check Valve	Flowserve Corp.	BH-322	N/A	ILN# 10000026002	2010	Installed	Yes

7. **Description of Work:** The check valve in plant FLOC S3.ECCS. S31204MU020 was replaced with a new style valve that incorporates a resilient seat in accordance with NECP 800129659. Welding Services Inc. (WSI) was contracted to perform the valve replacement in accordance with WSI's QA and welding programs, and SCE's ASME Section XI Program. The Section XI replacement activities were performed per WSI Travelers 203625-TR-001 and 203625-TR-354. The welding and NDE were performed per WSI Weld Data Sheets for welds MN and CP.

The following preservice examinations were performed prior to placing valve into service;

- 1) A VT-1 examination was performed on the hinge pin cover bolting and documented on NDE Report 3VT-002-10.
- 2) A PDI-UT examination was performed on the Class 1 weld (MN) and documented on NDE Report 310-16UT-040.
- 3) PDI-UT and PT examinations were performed on the Class 2 weld (CP) and documented on NDE Reports 310-16UT-039 and 310-16PT-014.

R/R NDE Reports: 20365-PT-047, 203625-PT-048, 3RT-337-10, and 3RT-338-10.

8. Tests Conducted: Hydrosta	tic:	Pneumatic:	Nominal Operating F	Pressure:_X_	Exempt:	Other:
Pres	sure:	*See detail below	Test Temp:	*See detail be	low °F	

*A VT-2 System Leakage Pressure Test was conducted on the ASME III Class 2 side of the valve at 1400 psig. The ASME III class 1 side was examined during the RCS Pressure Boundary Leak test in accordance with ISI procedure SO23-XVII-3.1.1 with the pressure at \geq 2250 psig and the temperature \geq 280° F.

FORM NIS-2 (back)

9. Remarks: All NDE was performed in accordance with ASME Section III, NB/NC, 1995 edition, 1996 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: Signed: Date: 3/30/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>S/6/10</u> to <u>L/1/11</u>, 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.

	MAZCUA	_ Commissions	NB13402-1	CA2093	California
	Inspector's Signature		(National Board,	State, Province	, and Endorsements)
Date	4/25/11				

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

				Pg. 7 of _
Manufactured and c	ertified by Flowserve Corpora	ition, 1900 South Saunders Si	L Raleigh, NC 27603	
		(name and a	deress of N Certificate Holderi	
2. Manufactured for _	Edison Material Supply LLC Po	O Box 700 Rosemead, CA 917 Inama and addre	7.00000	
	on San Onofre Nuclear Gen		•	
. Location of installati	on Sail Onoire Nuclear Gen	erating Station 14300 Mesa K	and address)	
. Model No., Series No	o., or Type 1500 SC	Drawing 08-50924-01	Rev. C	CRN N/A
ASME Code, Section	III, Division 1: 1971	Summer 1973	1 (class)	N/A
	(Cal De	ize 3 Outle		(Code Case no.)
Material: (a) valve Bod A3 (b) pump Casing	51 CF8M Bonne A182 F		Bolting SA453 GR 66 0 B	
(a) Cert. Haldar's Sarial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
3H322	N/A	0918-AA557	96568-2	96700-1
3H324	N/A	0918-AA559	96568-4	96700-4
<u> </u>			· · · · · · · · · · · · · · · · · · ·	
		کی در دی پروانا کی این در در بازی در 		
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			· · · · · · · · · · · · · · · · · · ·	*******
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^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM NPV-1 (Back — Pg. 2 of 2)

				Certificate Holder's Se	erial No. BH322 & BH324
8. Design conditions	2485	650			
o. Design conditions	(pressure)	OSI (temperature)	°F or valve pressu	re class 1300	
9. Cold working pressu	are3600	psi at 100°F	•	•	
10. Hydrostatic test	5400 psi.	Disk differential test pre	3600 ssure	·	ps
Ontelin	faller Charl Cha				
11. Remarks: Bolting is	as rollows: Stud, SA4	53-660B, HT. CODE 866	; Nut, SA194-8M, HT.	CODE CJ7	
Dasker Daleinian.	28440-116, H1, C1	Jue 32770-1 mai 4;	Hinge pin coyer, 5	A479-316, HT CODE	32043-4-6 thru 9
SEE CERTIFICATE C	OF REWORK ATTACHI	D DATED 7/23/2010	REWORK S.O. 78407		
ORIGINAL SO 50	924, ITEM 2, SIZE	3, FIGURE 1500 SC	VALVE		
1		CERTIFICATIO	N OF DESIGN		
Design Specification and	ified by Long Kir	n Pham		CA	M73153
Design Specification cert Design Report certified by	,			P.E. State	. Reg. no. 1723133
Design Report certified by	/ N. A. SIZCITOTE	·		P.E. State NC	. Reg. no. <u>029425</u>
					
		CERTIFICATE O	F COMPLIANCE		
We cortify that the state					
We certify that the state ASME Code, Section III,	ments made in this i Division 1	eport are correct and the	nat this pump or valve	e conforms to the rules	for construction of the
N Certificate of Authoriza		N-1562	Expires _	11-26-2012	
			Expires _		
Date 5/2/2010	Name Flowserve (Corporation	Signed .		
		(N Certificate Holder)	Signed	instituted repr	esentatival
			/	<u> </u>	
		· · · · · · · · · · · · · · · · · · ·			
		CERTIFICATE OF	INSPECTION		
the undersigned holding	o valid anamaiania - :	and the same of the same			
l, the undersigned, holding NC	employed by	ssued by the National Bo	HSB CT	sure Vessel Inspectors and	the State or Province
	Hartford, CT		No. of the same of the same		
7/23/10				ump, or valve, described cate Holder has constructe	
n accordance with the ASA	AE Code, Section III. D	ivision 1	e and bener, the Certific	sate molder has constructe	d this pump, or valve,
By signing this certificate ne			warranti evoroccod o	r implied concerning the	compagnt described
n this Data Report. Furthern	nore, neither the insoc	ctor nor his amolover sh	all he liable in any man	ner for any nersonal injur	v or property damage
r a loss of any kind arising	from or connected w	th this inspection.	an ac hacie in only man	not for any personal light	, or property damage
-11					
late 9/2/10 S	igned		Commissions	NU549	
ι (Authoriz	ed Nuclear (papector)	ĬŇ	ati. 8d. (incl. endorsements) and :	itate or prov. and no.!

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1000012/202

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: 3/15/2011 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: 006-10 Rev.0

3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **WO:** 800313902, 800507689

4. Identification of System: 1204, Safety Injection System

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

Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, Summer 1973 Addenda (valve) 5. (a) ASME Section III, Class 1, 1974 Edition, Summer 1974 addenda (downstream weld) ASME Section III, Class 2, 1974 Edition, Summer 1974 addenda (upstream weld)

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

6. Identification of Components:

NOTE:

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# Check Valve	Anchor-Darling	1N-202	N/A	S31204MU021	1976	Removed	Yes
3" 1500# Check Valve	Flowserve Corp.	BH-324	N/A	ILN# 10000026002	2010	Installed	Yes

7. Description of Work: The check valve in plant FLOC S3.ECCS. S31204MU021 was replaced with a new style valve that incorporates a resilient seat in accordance with NECP 800129659. Welding Services Inc. (WSI) was contracted to perform the valve replacement in accordance with WSI's QA and welding programs, and SCE's ASME Section XI Program. The Section XI replacement activities were performed per WSI Travelers 203625-TR-001 and 203625-TR-351. The welding and NDE were performed per WSI Weld Data Sheets for welds ML and RP.

The following preservice examinations were performed prior to placing valve into service;

- 1) A VT-1 examination was performed on the hinge pin cover bolting and documented on NDE Report 3VT-003-10.
- 2) A PDI-UT examination was performed on the Class 1 weld (ML) and documented on NDE Report 310-16UT-033.
- 3) PDI-UT and PT examinations were performed on the Class 2 weld (RP) and documented on NDE Reports 310-16UT-032 and 310-16PT-013.

R/R NDE Reports: 20365-PT-014, 203625-PT-015, 3RT-307-10, and 3RT-308-10.

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

11 . v

Test Temp: *See detail below °F **Pressure:** *See detail below

*A VT-2 System Leakage Pressure Test was conducted on the ASME III Class 2 side of the valve at 1416 psig. The ASME III class 1 side was examined during the RCS Pressure Boundary Leak test in accordance with ISI procedure SO23-XVII-3.1.1 with the pressure at > 2250 psig and the temperature > 280° F.

FORM NIS-2 (back)

9. Remarks: All NDE was performed in accordance with ASME Section III, NB/NC, 1995 edition, 1996 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: The Supervising ASME Code Engineer Date: 3/36/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>8/9/11</u> to <u>2/11/11</u>, 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.

	WAZENA	Commissions	NB13402-1	CA2093	California	
	Inspector's Signature		(National Board,	State, Province	, and Endorsements))
Date	ula clu					

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

	As nequired by the r	rovisions of the ASIVIE	Code, Section III, Divis	Pg. 1 of
, Manufactured and o	certified by Flowserve Corpora	ation, 1900 South Saunders S	t. Raleigh, NC 27603 ddress of N Certificate Holder)	
Manufactured for	Edison Material Supply LLC F	O Box 700 Rosemead, CA 917	77.00000	
	ion San Onofre Nuclear Ger		iss of Purchaser) Id. San Clemente: CA 92672	
		. (name	and address)	
Model No., Series N	lo., or Type 1500 SC	Orawing 08-50924-01	Rev. C	CRN N/A
ASME Code, Section	ı III, Division 1: 1971	Summer 1973	1 (class)	M/A (Code Case no.)
Pump or valveV		size 3 Outle		
Material:	351 CF8M Bonne \$A182 F			
•	Cover		Bolting SA453 GR6608	
(a) Cert. Holder's Serial No.	(b) Nat'l Board No	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
H322	N/A	0918-AA557	96568-2	96700-1
H324	N/A	0918-AA559	96568-4	96700-4
				_
				* ************************************
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			·	
				<u>-</u>
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100002600Z

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM NPV-1 (Back — Pg. 2 of 2 BH322 & BH324 Certificate Holder's Serial No. °F or valve pressure class 1500 8. Design conditions (pressure) 3600 9. Cold working pressure _ 3600 5400 10. Hydrostatic test ____ psi. Disk differential test pressure 11. Remarks: Bolting is as follows: Stud, SA453-660B, HT. CODE 866; Nut, SA194-8M, HT. CODE CI7 Gasket retainer, SA240-316, HT. CODE 32770-1 thru 4; Hinge pin cover, SA479-316, HT CODE 32043-4.6 thru 9 SEE CERTIFICATE OF REWORK ATTACHED DATED 7/23/2010 REWORK 5.O. 78407 ORIGINAL SO 50924, ITEM 2, SIZE 3, FIGURE 1500 SC VALVE CERTIFICATION OF DESIGN Reg. no. M23153 Long Kim Pham Design Specification certified by P.E. State Design Report certified by R. A. Sizemore Reg. no. 029425 P.E. State CERTIFICATE OF COMPLIANCE

CERTIFICATE OF INSPECTION						
I, the undersigned, holding a valid commission issued by the National B of NC and employed by	loard of Boiler and Pressure Vessel Inspectors and the State or Province HSB CT					
1 maria de la companya del companya della companya	have inspected the pump, or valve, described in this Data Report on					
1 / /	ge 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 ar	ny warranty, expressed or implied, concerning the component described					
in this Data Report. Furthermore, neither the inspector nor his employer s	hall 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 9/2/10 Signed Wutnovized Nuclear Inspector)	Commissions (Nat'l. Bz. (incl. endorsements) and state or prov. and no.)					

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

__ Expires __

Signed 3

N-1562

ASME Code, Section III, Division 1.

N Certificate of Authorization No. ____

Date 9/2/2010 Name Flowserve Corporation
(N Certificate Holder)

100002 6002

7

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern Co			70	Date: 3/29/2011		Sh	eet 1 of 1
	•	·	, 0	Unit: 3			
2. Plant: San Onofre N Address: P.O. Box	•			Repair/Replacement	Plan:	004-10 Rev.0	
3. Work Performed by Address: 2244 Wali				WO: 800313903, 800	050769	1	
			, 0	Type Code Symbol S	Stamp:		N/A
4. Identification of System: 1204, Safety Injection System			Authorization No: Expiration Date:		N/A	N/A	
	AS AS lition of Section XI	ME Section III, Cla ME Section III, Cla	ss 1, 1974 I ss 2, 1974 I	Edition, Summer 197 Edition, Summer 1974 Edition, Summer 1974 ent Activity: 1995 Ed	addenda addenda	a (downstream a (upstream w	
		/" 				Corrected,	ASME
Name of	Name of	Manufacturer	National	Other		Removed, or	l .
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped Yes/No
8" 1500# Check Valve	Flowserve Corp.	AU738	N/A	S31204MU072	2004	Removed	Yes
8" 1500# Check Valve	Flowserve Corp.	BG636	N/A	ILN# 10000009363	2009	Installed	Yes
	seat in accordance we cordance with WSI's vere performed per Vold Data Sheets for we vice; A VT-1 examinate ASME III-2 we gs S3-1204-ME-043 Reports:, 203625-PT	with NECP 80012963 s QA and welding provided the VSI Travelers 20362 elds M and AJ. The nation of hinge pin old (M), and a PDI-U sh. 1, with ECN DO -018, 203625-PT-018	59. Welding rograms, and 25-TR-001 are following prover bolting the examinate 2019046 and 19, 3RT-309	s Services Inc. (WSI) was d SCE's ASME Section and 203625-TR-358. The pre-service examination g, a VT-3 on the valve ion of the ASME III-1	vas cont n XI Pr The wel- ns (PSE body ir weld (A	racted to perform the Soliding and NDE (a) were perform ternal surface (AJ). ECN D00190	orm the ection XI were med prior es, a PT and
8. Tests Conducted: H	Iydrostatic: Pi	neumatic: Non	•	ating Pressure: X l	•	: Other	:

*A VT-2 System Leakage Pressure Test was conducted on the ASME III Class 2 side of the valve at 361 psig. The ASME III class 1 side was examined during the RCS Pressure Boundary Leak test in accordance with ISI procedure SO23-XVII-3.1.1 with the pressure at ≥ 2250 psig and the temperature ≥ 280° F.

NOTE:

9. Remarks: All NDE was performed in accordance with ASME Section III, NB/NC, 1995 edition, 1996 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIF	ICAT	E OF	COM	PLI	AN	CF
	$1 \cdot A \cdot 1$	$\mathbf{L} \mathbf{O} \mathbf{I}$	CON			L . I .

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: Signed: Supervising ASME Code Engineer Date: 3/30/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>*/L/Lo</u> to <u>-2/8/LL</u>, 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.

	WAZINA	Commissions N6/3402-1 CA2093 California	
	Inspector's Signature	(National Board, State, Province, and Endorsements)	
Date	4/26/11		

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

	As Required by the Prov	isions of the ASIVE Code	e, Section III, Division	Pg. 1 of
Manufactured and certification	fied by Flowserve Corporation	, 1900 South Saunders St. Ral	eigh, NC 27603 of N Certificate Holder)	
	: M-h C 11 C 00 0			
2. Manufactured forE0	ison material Supply LLC POB	ox 700 Rosemead, CA 9177000	(UU) Turchaser)	<u></u>
	San Onofre Nuclear Genera	ting Station 14300 Mesa Rd. Sa	an Clemente CA 97677	
3. Location of installation	Self-Office Medical General	(name and ac	Idress)	
4. Model No., Series No.,	or Type 1500 SC	Drawing 08-50924-03	Rev. G	CRN N/A
5. ASME Code, Section III,	Division 1: 1971 (edition)	Summer 1973 (addenda date)	1 / (ciess)	N/A (Code Case no.)
6. Pump or valve Valve		, ·	•	(COUR CESS NO.)
7. Material:		_		
(a) valve Bod \$A <u>35</u> (b) pump Casing		•	ting <u>SA453 GR</u> 660B	
(a)	(b)	(c)	(d)	(e)
Cert. Holder's	Nat'l Board	Body/Casing Serial	Bonnet/Cover Serial	Disk Serial
Serial No.	No.	No.	No.	No.
BG636 /	N/A	GBHO-09X239-5 /	96676-1	96725-1
·				
·	_ 			
				
				
				
				
				
				
				
				

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back — Pg. 2 of 2

			Ce	ertificate Holder's Ser	rial No. BG636
. 8. Design conditions	2485	osi	°F or valve pressure clas	ss 1500	
9. Cold working pressure	3600	psi at 100°F			
10. Hydrostatic test	625 psi. (Disk differential test pressu	3600 re		
11. Remarks: Bolting is as Gasket retainer. S		3-6608, HT. CODE 341; 1 DE 98675-1; Hinge pi			1-1 /
·					
				 	
SO 50924, ITEM 9,	SIZE 8, FIGURE	1500 SC VALVE			
		CERTIFICATION	OF DESIGN		
Design Specification certification	ried by	M PHAM		P.E. State CA P.E. State NC	Reg. no. M23153
Design Report certified by	RONALD S. FA	RRELL		P.E. State NC	_ Reg. no. <u>028656</u>
	 	OCCUPATE OF	20100144105		
		CERTIFICATE OF	COMPLIANCE	٠ .	
We certify that the states ASME Code, Section III, 1		report are correct and the	at this pump or valve co	onforms to the rules	for construction of the
N Certificate of Authoriza		N-1562	Expires1	1-26-09	
Date 6-30-09	Name Howserve	Corporation	Signed 1/2	e Sad	•
		(N Certificate Holder)		lad thorized re	presentative)
<u></u>					
		CERTIFICATE OF	INSPECTION		
I, the undersigned, holding of NC and	a valid commission employed by	issued by the National Bo	ard of Boiler and Pressure HSB CT	e Vessel Inspectors a	nd the State or Province
	Hartford, CT	o the best of my knowledg	_ have inspected the pum e and belief, the Certificat		
in accordance with the AS					
By signing this certificate n				•	
in this Data Report. Further or a loss of any kind arisin		• •	all be liable in any manne	er for any personal in	ury or property damage
, ,	_	_	_		_
Date 6/30/09	Signed IAUNG	prized Nuclear Inspector)	. Commissions	i. Bd. (incl. endorsements) a	nd state or prov. and no.)
<u> </u>					

As Required by the Provisions of the ASME Code Section XI

1	Owner:	Southern	California	Edison	Company
	Ommer.	Soumern	Camonna	Luison	Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

Date: 3/29/2011

Unit: 3

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 003-10 Rev.0

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800313904, 800507695

N/A

N/A

4. Identification of System: 1204, Safety Injection System

Type Code Symbol Stamp: **Authorization No:**

N/A

Expiration Date:

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, Summer 1973 Addenda (valve)

ASME Section III, Class 1, 1974 Edition, Summer 1974 addenda (downstream weld) ASME Section III, Class 2, 1974 Edition, Summer 1974 addenda (upstream weld)

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

6. Identification of Components:

5. (a)

NOTE:

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
8" 1500# Check Valve	Anchor/Darling	1N-228	N/A	S31204MU073	1976	Removed	Yes
8" 1500# Check Valve	Flowserve Corp.	BG696	N/A	ILN# 10000010963	2009	Installed	Yes
		; ;	(0) 11.	13.46			

7. Description of Work: The check valve in plant FLOC S3.ECCS. S31204MU073 was replaced with a new style valve that incorporates a resilient seat in accordance with NECP 800129659. Welding Services Inc. (WSI) was contracted to perform the valve replacement in accordance with WSI's QA and welding programs, and SCE's ASME Section XI Program. The Section XI replacement activities were performed per WSI Travelers 203625-TR-001 and 203625-TR-355. The welding and NDE were performed per WSI Weld Data Sheets for welds M and AJ. The following pre-service examinations (PSE) were performed prior to returning valve to service; A VT-1 examination of hinge pin cover bolting, a VT-3 on the valve body internal surfaces, a PT and PDI-UT examination of the ASME III-2 weld (M), and a PDI-UT examination of the ASME III-1 weld (V).

Reference: Iso. drawings S3-1204-ML-044 sh. 1, with ECN D0019061 and S3-1204-ML-040, sh 1 with ECN D0019076. R/R NDE Reports:, 203625-PT-049, 203625-PT-050, 3RT-333-10, and 3RT-334-10, PSE NDE Reports: 3VT-007-09, 3VT-016-10, 310-16PT-015, 310-16UT-035, and 310-16UT-036...

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

Pressure: *See detail below Test Temp: *See detail below °F

*A VT-2 System Leakage Pressure Test was conducted on the ASME III Class 2 side of the valve at 365 psig. The ASME III class 1 side was examined during the RCS Pressure Boundary Leak test in accordance with ISI procedure SO23-XVII-3.1.1 with the pressure at \geq 2250 psig and the temperature \geq 280° F.

9. Remarks: All NDE was performed in accordance with ASME Section III, NB/NC, 1995 edition, 1996 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are corre	ct 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: Signed: Supervising ASME Code Engineer Date: 3/30/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>8/6/10</u> to <u>2/8/11</u>, 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.

	WAZEUZ	Commissions NB13402-1 (A2093 California
_	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	4/26/11	

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

	nequired by the Flovi	sions of the ASME Code,	Section in, Division	Pg. 1 of
Manufactured and certifie	ed by Flowserve Corporation	1900 South Saunders St. Ralei	gh, NC 27603	·
2. Manufactured forEdisc	on Material Supply LLC PO Bo	x 700 Rosemead, CA 91770000	0	
2. Laureign of installation	San Onofre Nuclear Generat	Insure and address of Par ing Station 14300 Mesa Rd. San		
3. Edication of instanation _	•	(name and add	(633)	
4. Model No., Series No., or	Type1500 SC	Orawing 08-50924-03	Rev. G	CRN N/A
5. ASME Code, Section III, [Division 1: 1971	Summer 1973 (addenda date)	1 (dassi	N/A (Code Case no.)
6. Pump or valve Valve	Nominal inlet size	8 Outlet size	8	
7. Material: (a) valve Body SA35 (b) pump Casing		16 _{Disk} S <u>A182F316</u> L Bottin	ng SA453 GR660B	·
ia) Cert. Holder's Seriat No.	(b) Nat'i Board No.	(c) Body/Casing Serial No	(d) Bornet/Cover Serial No.	(e) Disk Serial No.
BG696	N/A	GBGD-09X239-1	96676-6	96725-5
	·			
				

[•] Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM NPV-1 (Back — Pg. 2 of 2____)

	Certificate Holder's Serial No. BG696
8. Design conditions Z485 psi 650 F or v	valve pressure class 1500
9. Cold working pressure 3600 psi at 100°F	
10. Hydrostatic test psi. Disk differential test pressure	00.
11. Remarks: Bolting is as follows: Stud, SA453-660B, HT. CODE 341; Nut, SA Gasket retainer, SA182-316, HT. CODE 96675-4; Hinge pin cov	
SO 50924, ITEM 3	
CERTIFICATION OF DI	SCICNI
LONG KIM PHAM	CA M72157
Design Specification certified by	P.E. State NC Reg. no. 028656
Design Report certified by KUNALD 5. FARKELL	P.E. State Neg. no. 420020
CERTIFICATE OF COMP	LIANCE
We certify that the statements made in this report are correct and that this ASME Code. Section III, Division 1.	pump or valve conforms to the rules for construction of the
N Certificate of Authorization No	Expires11-26-09
1/22 th a Flawserve Comprehing	Lange Charach
Date 103109 Name Flowserve Corporation (N Cardificate Holder)	Signed (authorized representable)
CERTIFICATE OF INSPE	CTION
I, the undersigned, holding a valid commission issued by the National Board of NC and employed by	Boiler and Pressure Vessel Inspectors and the State or Province HSB CT
of Hartford, CT have	inspected the pump, or valve, described in this Data Report on
	pelief, 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 warrantee.	unty expressed or implied concerning the component described
in this Data Report. Furthermore, neither the inspector nor his employer shall be	- · · · · · · · · · · · · · · · · · · ·
or a loss of any kind arising from or connected with this inspection.	
1 2/2	ACV9
Date 7 25/01 Signed Com	(Net'l. Bd. (lincl. endorsements) and state or prov. and no.)

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: 3/30/2011 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: 002-10 Rev.0

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800313905, 800507699

Type Code Symbol Stamp: N/A

4. Identification of System: 1204, Safety Injection System

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, Summer 1973 Addenda (valve) 5. (a) ASME Section III, Class 1, 1974 Edition, Summer 1974 addenda (downstream weld) ASME Section III, Class 2, 1974 Edition, Summer 1974 addenda (upstream weld)

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
8" 1500# Check Valve	Flowserve Corp.	AU737	N/A	S31204MU074	2004	Removed	Yes
8" 1500# Check Valve	Flowserve Corp.	BG729	N/A	ILN# 10000009363	2009	Installed	Yes
8" NPS sch 140 SMLS Pipe, 12" long	Dubose National Energy	Ht # 29258 Tr.# 35035	N/A	ILN-10000015151 SA-312 Gr TP316	N/A	Installed	No
1" NPS Pipet	WFI/Dubose National Energy	Ht. Cd.: 3901ANA Ht.# 417310	N/A	ILN 10000028514 SA182 gr F316	N/A	Installed	No

7. Description of Work: The check valve in plant FLOC S3.ECCS. S31204MU074 was replaced with a new style valve that incorporates a resilient seat in accordance with NECP 800129659. Welding Services Inc. (WSI) was contracted to perform the valve replacement in accordance with WSI's QA and welding programs, and SCE's ASME Section XI Program. The Section XI replacement activities were performed per WSI Travelers 203625-TR-001 and 203625-TR-357. The welding and NDE were performed per WSI Weld Data Sheets for welds ML, MM, N, SA, and MP. The following pre-service examinations (PSE) were performed prior to returning valve to service; A VT-1 examination of hinge pin cover bolting, a VT-3 on the valve body internal surfaces, a PT and PDI-UT examination of the Class 2 weld (N), and a PDI-UT examination of the Class 1 welds (ML &MM). Note: PSE volumetric examinations were not required for welds SA and MP (1"NPS).

Reference: Iso. drawings S3-1204-ML-045 sh. 1, with ECN D0019042 and S3-1204-ML-041, sh 1 with ECN D0019045. R/R NDE Reports: 203625-PT-003, 203625-PT-005, 203625-PT-041, 203625-PT-042, 3RT-303-10, 3RT-330-10, 3RT-331-10, and 3RT-332-10.

PSE NDE Reports: 3VT-006-09, 3VT-017-10, 310-16PT-015, 310-16UT-036, and 310-16UT-037.

8.	Tests Conducted: Hydrostatic:	Pneumatic:	Nominal Operating Press	sure: <u>X</u>	Exempt:_		Other:
	Pressure:	*See detail below	Test Temp:	*See deta	ail below	٥F	

^{*}A VT-2 System Leakage Pressure Test was conducted on the ASME III Class 2 side of the valve at 350 psig. The ASME III class 1 side was examined during the RCS Pressure Boundary Leak test in accordance with ISI procedure SO23-XVII-3.1.1 with the pressure at \geq 2250 psig and the temperature \geq 280° F.

9. **Remarks:** All NDE was performed in accordance with ASME Section III, NB/NC, 1995 edition, 1996 Addenda. The pipet was certified to the 1998 Edition, 2000 add. of NB-2000 as allowed per reconciliation RoR-005-03.

(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: Signed: Supervising ASME Code Engineer Date: 3/30/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>8/6 (10</u> to <u>2/8/11</u> , 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.
Commissions NB13Y02-1 CA2093 California
Inspector's Signature (National Board, State, Province, and Endorsements)
Date

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

		<u> </u>		Pg. 1 of
	•	1900 South Saunders St. Raleigh, (name and address of N C	NC 27603 eroficate Holder)	
2. Manufactured for Edison	Material Supply LLC PO Box	700 Rosemead, CA 917700000 (name-end address of Purchas	(B)	
3. Location of installation Sa	an Onofre Nuclear Generation	g Station 14300 Mesa Rd. San Cl	emente, CA 92672	
4. Model No., Series No., or Ty	7pe1500 SCD	rawing 08-50924-03 Rev	_	CRN N/A
5. ASME Code, Section III, Divi	ision 1: 1971	Summer 1973	1 ′	N/A
6. Pump or valve Valve	(edidon) Nominal inlet size	(addenda date) 8 Outlet size	(class)	· (Code Case no.)
7 Material:		(in.)	(in.)	
(a) valve Body SA351		6 Disk SA182F316L Bolting	SA453 GR660B	
(b) pump Casing	Cover	Bolting		
(a) Cert. Holder's Serial No.	(b) Not't Board No.	(c) Body/Casing Serial No	(d) Bannet/Cover Serial No.	(e) Disk Serial No.
BG729 /	N/A	GAXS-09X69-1	96676-3	96725-3
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
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^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is $\theta^1_L \times 11$, (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.

FORM NPV-1 (Back — Pg. 2 of 2 BG729 / Certificate Holder's Serial No. 2485 or valve pressure class 1500 8. Design conditions psi at 100°F 9. Cold working pressure 5625 psi. Disk differential test pressure 10. Hydrostatic test . 11. Remarks: Bolting is as follows: Stud, SA453-660B, HT. CODE 341; Nut, SA194-8M, HT. CODE 023 Gasket retainer, SA182-316, HT. CODE 96675-3; Hinge pin cover, SA479-316, HT CODE 32047-1-6 SO 50924, ITEM 3 CERTIFICATION OF DESIGN LONG KIM PHAM Design Specification certified by Reg. no. RONALD S. FARRELL Design Report certified by 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. **Howserve Corporation** 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 HSB CT and employed by Hartford, CT have inspected the pump, or valve, described in this Data Report on , 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.

As Required by the Provisions of the ASME Code Section XI

	er: Southern California Edison Company ess: 2244 Walnut Grove Avenue, Rosemead, CA 91770			Date: 3/29/2011		Sh	eet 1 of 1
				Unit: 3			
 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 				Repair/Replacement	Plan:	001-10 Rev.0	`
3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770			WO: 800313906, 800	050776:	3		
	Identification of System: 1204, Safety Injection System			Type Code Symbol Stamp: Authorization No: N/A			N/A
6. Identification of Co	omponents:						
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
8" 1500# Check Valve	Anchor/Darling	1N-223	N/A	S31204MU075	1976	Removed	Yes
8" 1500# Check Valve	Flowserve Corp.	BG698	N/A	ILN# 10000009363	2009	Installed	Yes
	seat in accordance we cordance with WSI's vere performed per V ld Data Sheets for we vice; A VT-1 examif the ASME III-2 we gs S3-12044ML ¹ 046 Reports:, 203625-PT	ith NECP 80012965 s QA and welding properties of the VSI Travelers 20362 elds M and MF. The nation of hinge pin cold (M), and a PDI-U sh: 1a, with ECN D-032, 203625-PT-03	CCS. S3120 69. Welding rograms, and c5-TR-001 are following cover bolting T examinat 00019088 are 13, 3RT-313	Services Inc. (WSI) wd SCE's ASME Section and 203625-TR-356. The pre-service examinating, a VT-3 on the valve ion of the ASME III-1	ras cont in XI Profile wellons (PSI body in weld (N	racted to perform ogram. The Set ding and NDE E) were perform ternal surface MF).	orm the ection XI were med prior s, a PT and
8. Tests Conducted: F	Iydrostatic: Pr	neumatic: Non	iinal Opera	ating Pressure: <u>X</u> I	Exempt	: Other	:
	Pressure: *Se	e detail below	Tes	st Temp: *See detai	<u>l below</u>	°F	
*A VT-2 Syste	em Leakage Pressure	Test was conducted	on the ASI	ME III Class 2 side of	the valv	re at 359 psig.	

The ASME III class 1 side was examined during the RCS Pressure Boundary Leak test in accordance with ISI

procedure SO23-XVII-3.1.1 with the pressure at \geq 2250 psig and the temperature \geq 280° F.

NOTE:

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
I certify that the Section XI.	statements made in the report are correct and this conforms to the requirements of the ASME Code,
Type Code Symb	ool Stamp: N/A
Certificate of Au	thorization No: N/A Expiration Date: N/A
Signed: My	or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
State or Province this Owner's Repo Owner has perfor	I holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the of <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in ort during the period <u>P/6/10</u> to <u>Z/8/11</u> , and state that to the best of my knowledge and belief, the med examinations and taken corrective measures described in this Owner's Report in accordance with the he ASME Code, Section XI.
examinations and	ertificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer any manner for any personal injury or property damage or a loss of any kind arising from or connected with
Inspe	Commissions NS13402-1 CA2043 California (National Board, State, Province, and Endorsements)
Date	

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

A3	Required by the Provis			Pg. 1 of _
. Manufactured and certified	by Howserve Corporation,	1900 South Saunders St. Raleigh trains and address of N	, NC 27603 Certificate Holder)	
. Manufactured for Ediso	n Material Supply LLC PO Box	700 Rosemead, CA 917700000		
	San Onofre Nuclear Conocatio	(name and address of Purch ig Station 14300 Mesa Rd. San C	•	•
. Location of installation	San Online Nuclear Gerieraur	(name and addies	s) ·	
. Model No., Series No., or	Type1500 SC0	rawing <u>08-50924-03</u> Re	v. <u> </u>	CRN N/A
. ASME Code, Section III, Di	ivision 1:1971 /	Summer 1973 /	1	N/A
	(edition)	(addenda date)	(class)	(Code Case no.)
. Pump or valve Valve	Nominal inlet size	8 Outlet size _	8 (n)	•
. Material:				
(a) valve Body SA35	1 CF8M Bonnet SA182 F31	6 Disk SA182F316L Bolting	SA453 GR660B	
(b) pump Casing		Bolting		
(a)	(b)	(c)	(d)	(-)
Cert.	Nat'l	Body/Casing	Bonnet/Cover	(e) Disk
Holder's Serial No.	Board No.	Serial No.	Serial No.	Serial No.
Selier NV.	140.	140.	NO.	NO.
BG698 7	N/A	GBGD-09X239-2	96676-5	96725-4
				<u> </u>
			· 	
_ 			· · · · · · · · · · · · · · · · · · ·	
			<u> </u>	
				
				· · · · · · · · · · · · · · · · · · ·

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM NPV-1 (Back — Pg. 2 of $\frac{2}{2}$)

	Certificate Holder's Serial No. BG698
2485 650	. 4500
B. Design conditions psi (pressure) psi (temperature)	°F or valve pressure class 1500
9. Cold working pressure 3600 psi at 100°F	
10. Hydrostatic test psi. Disk differential test press	3600 psi
11. Remarks: Bolting is as follows: Stud, SA453-660B, HT. CODE 341;	
Gasket retainer, SA182-316, HT_CODE 98675-5; Hinge s	oin cover, SA479-316, HT CODE 32047-1-4
SO 50924, ITEM 3	
	· · · · · · · · · · · · · · · · · · ·
CERTIFICATIO	N OF DESIGN
Design Specification certified by LONG KIM PHAM	P.E. State <u>CA</u> Reg. no. <u>M23153</u>
Design Report certified by RONALD S. FARRELL	P.E. State <u>NC</u> Reg. no. 028656
	hat this pump or valve conforms to the rules for construction of the Expires Expires 11-26-09
Date 10/30/09 Name Howserve Corporation (N Cardificate Holder)	Signed StllCea Touls 4 08d
CERTIFICATE C	OF INSPECTION
of and employed by	Board of Boiler and Pressure Vessel Inspectors and the State or Province HSB CT
/ /2 / 0	have inspected the pump, or valve, described in this Data Report on
,	dge and belief, the Certificate Holder has constructed this pump, or valve,
In accordance with the ASME Code, Section III, Division 1.	ny warranty, expressed or implied, concerning the component described
, , ,	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 6/30/09 Signed Withorized Nuclear Inspection	Commissions NC1549 [Nat1. 8d. (incl. endorsements) and state or prov. and no.)

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern 6 Address: 2244 Wa			. 91770	Date: 04/28/2010)	5	Sheet 1 of 1		
				Unit: 3	Unit: 3				
2. Plant: San Onofre Address: P.O. Box			28	Repair/Replacen GEN-239 Rev.1	ient Pla	n: 800363025-	0010,		
3. Work Performed by Address: 2244 Wa	•		•	WO: 800363025					
4. Identification of Sy	ystem: Safety In	jection System		Type Code Symb Authorization No Expiration Date:		p: N/A N/A N/A			
5. (a) Applicable C	onstruction Co	de: ASME Section	III, Class 2,	1974 Edition, S. '74 add	denda	17/1			
(b) Applicable Ed	dition of Section	ı XI Utilized for R	epair/Repla	cement Activity: 1995	Edition;	1996 Addenda	1		
6. Identification of Co	omponents:								
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		
8" 150# Flanged Joint	SCE	N/A	N/A	S31204ML329	N/A	Corrected	No		
3/4"-10UN x 5.25" Stud Bolt (8)	Nova Machine Products	Heat # 3001306	N/A	ILN-10000015951, SA193 gr.B7	N/A	Installed	No		
3/4"-10UN Heavy Hex Nut (16)	Mackson Inc.	Heat # S44035	N/A	ILN-10000008138 SA194 gr.2H	N/A	Installed	No		
7. Description of Wor acid leak. The flange bo (2) lengths of 36" all-th A system leakage test ar	elting was replac aread rod in acco	ed in conjunction wordance with the req	ith the main uirements of	tenance activity. The (8) FRRP GEN-239 Rev.1.	stud bo	lts were fabrica			
	, 5 - 1 - 9 +								
						'			
8. Tests Conducted: 1	Hydrostatic:	Pneumatic:	Nominal	Operating Pressure:_	X F	Exempt:	Other:		
Pr	essure: 20	1.2 psi Test I	Гетр:	N/A °F			-		

9. **Remarks:** The stud bolts were certified to the 1971 Edition, no addenda as allowed per reconciliation RoR-002-03. The nuts were certified to the 1989 Edition, no add, as allowed per reconsiliation RoR-003-03.

(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: Meichler Supervising ASME Code Engineer Date: 4/28/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>B/5/10</u> to <u>12/30/10</u> , 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 NG13402-1 CA2093 California (National Board, State, Province, and Endorsements)
Date4/79/11

As Required by the Provisions of the ASME Code Section XI

	Owner: Southern California Edison Company	Date: 02/28/11	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
	,	I	DATA-0187
	Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770	WO: 800369324	
	, ,	m 6 1 6 1 16	37/4

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 No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58737-01-0010	N/A	3PSV8403	1976	Removed	Yes
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58737-01-0030	N/A	ILN # 89000007402	1977	Installed	Yes
1-3/8"-8UN(3A) Inlet Studs (12)	Nova Machine Products Inc	Heat # 72814 Heat Code "4S38"	N/A	SA193 Gr.B7 ILN-10000027369	N/A	Installed	No
1-3/8" Heavy Hex Nuts (12)	Mackson Inc	Ht.# M82952, Heat Code "AVM"	N/A	ILN-10000007021, SA194 Gr.7	N/A	Installed	No

7. Description of Work:

The main steam safety valve located in plant position 3PSV8403 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58737-01-0030). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The inlet studs were fabricated under work order 800494646. 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:_	Pneum	atic:	Nominal	Operating	Pressure: X	Exempt:	Other:
	I	Pressure: 1	<u>011 </u>	Test Te	mp:	N/A	°F		

9. **Remarks:** RoR 002-03 reconciles the replacement studs which are certified to the 1971 Edition, no add. RoR-012-03 reconciles the replacement 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: Signed: Supervising ASME Code Engineer Date: 3/1/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>8/5/10</u> to <u>2/12/11</u> , 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.
Commissions NB13402-1 CA2093 California
Inspector's Signate (National Board, State, Province, and Endorsements)
Date 4/79//

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern	California Edison Company	Date: 02/28/11	Sheet 1 of 1
Address: 2244 Wa	Inut Grove Avenue, Rosemead, CA 91770	XI II O	
2. Plant: San Onofre	Nuclear Generating Station	Unit: 3	
Address: P.O. Box	128, San Clemente, CA 92672-0128	Repair/Replacement Pla	
			DATA-0190
	by: Southern California Edison Company Inut Grove Avenue, Rosemead, CA 91770	WO : 800369331	
		Type Code Symbol Stam	p: N/A
4. Identification of Sy	vstem: 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

Section 1985 Section 1985

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

6. Identification of Components:

						····	r
	ĺ]				Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
Component	Manufacturer	Serial No.	Board	Identification	Built	Installed	Stamped
			No.				Yes/No
6" x 10" Main Stm.	Crosby Valve	N58737-01-0015	N/A	3PSV8415	1976	Removed	Yes
Safety Valve	& Gage						
6" x 10" Main Stm.	Crosby Valve	N58737-01-0024	N/A	ILN # 89000007402	1977	Installed	Yes
Safety Valve	& Gage						
1-3/8"-8UN(3A)	Mackson Inc	Heat # 11503850	N/A	SA193 Gr.B7	N/A	Installed	No
Inlet Studs (10)		Heat Code "AQG"		RSO-0831-08			
1-3/8"-8UN(3A)	Nova	Heat # 72814	N/A	SA193 Gr.B7	N/A	Installed	No
Inlet Studs (2)	Machine	Heat Code "4S38"		ILN-10000027369			
, ,	Products Inc.						
1-3/8" Heavy Hex	Mackson Inc	Ht.# M82952,	N/A	ILN-10000007021,	N/A	Installed	No
Nuts (12)		Heat Code "AVM"		SA194 Gr.7			

7. Description of Work:

NOTE:

The main steam safety valve located in plant position 3PSV8415 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58737-01-0024). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The inlet studs were fabricated under work orders 800345427 and 800494646. 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: 101	psia Test Temp:N/A°F		

9. **Remarks:** RoR-002-03 reconciles the replacement studs which were certified to the 1989 Edition, no add. and 1971 Edition, no addenda respectively. RoR-012-03 reconciles the replacement 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: Supervising ASME Code Engineer Date: 3/1/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>**[5][0]</u> to <u>7/12/11</u> , 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 NB13402-1 ca2093 California (National Board, State, Province, and Endorsements)
Date4/29/11

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					SI	neet 1 of 1	
	,	<i>31</i> 1 <i>31110</i>	Unit: 3	Unit: 3			
 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 			Repair/Replacem			ION XI	
			WO: 800369335		DA1A-0190		
4. Identification of System: Main Steam System			Authorization No):	o: N/A N/A N/A		
Construction	Code: ASME Section	on III, Clas	s 2, 1974 Edition, S. 1974 a	ddenda			
Edition of Sec	tion XI Utilized for	Repair/R	eplacement Activity: 1995	Edition;	1996 Addenda		
Components:					, ,		
,			12.124.11.25.11		,	4	
Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped	
	N58737-01-0009	No. N/A	3PSV8406	1976	Removed	Yes/No Yes	
	N58737-01-0031	Ņ/A	ILN # 89000007402	1977	Installed	Yes	
Mackson Inc	Heat # 11503850 Heat Code "AQG"	N/A	RSO-0521-05-00 SA193 Gr.B7	N/A	Installed	No	
Mackson Inc	Ht.# M82952, Heat Code "AVM"	N/A	ILN-10000007021, SA194 Gr.7	N/A	Installed	No	
ork:		, .					
y valve located are valve (s/n) et studs were fa	158737-01-0031). 1 bricated under work	2 inlet stud order 800	s and nuts were replaced in 494646. The removed valve	conjuncți was plac urn to ser	on with the valued in the rebuil vice.	ve	
	Valnut Grove A re Nuclear Gene ox 128, San Cle l by: Southern Valnut Grove A System: Main Construction Edition of Sec Components: Name of Manufacturer Crosby Valve & Gage Crosby Valve & Gage Mackson Inc Mackson Inc ork: y valve located are valve (s/n) et studs were fa	Valnut Grove Avenue, Rosemead, Core Nuclear Generating Station ox 128, San Clemente, CA 92672-1 by: Southern California Edison Covalnut Grove Avenue, Rosemead, Coval	Valnut Grove Avenue, Rosemead, CA 91770 The Nuclear Generating Station ox 128, San Clemente, CA 92672-0128 In by: Southern California Edison Company Valnut Grove Avenue, Rosemead, CA 91770 System: Main Steam System Construction Code: ASME Section III, Class Edition of Section XI Utilized for Repair/R Components: Name of Manufacturer National Board No. Crosby Valve N58737-01-0009 N/A & Gage Crosby Valve N58737-01-0031 N/A & Gage Mackson Inc Heat # 11503850 N/A Mackson Inc Heat # 11503850 N/A Mackson Inc Heat # 000 N/A Ware Valve (s/n N58737-01-0031) N/A Mackson Inc Heat # 000 N/A Mackson Inc Heat #	Valnut Grove Avenue, Rosemead, CA 91770 Unit: 3 The Nuclear Generating Station ox 128, San Clemente, CA 92672-0128 Repair/Replacem WO: 800369335 Wo: 800369335 Type Code Symb Authorization No Expiration Date: Construction Code: ASME Section III, Class 2, 1974 Edition, S. 1974 a Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Components: Name of Manufacturer National Other Manufacturer Serial No. Board Identification No. Crosby Valve N58737-01-0009 N/A 3PSV8406 & Gage Crosby Valve N58737-01-0031 N/A ILN # 89000007402 & Gage Mackson Inc Heat # 11503850 N/A RSO-0521-05-00 SA193 Gr.B7 Mackson Inc Heat Code "AQG" SA193 Gr.B7 Mackson Inc Heat Code "AVM" RSO-0521-05-00 SA193 Gr.B7 Mackson Inc Heat Code "AVM" RSO-0521-05-00 SA194 Gr.7 Tork: Type Code Symb Authorization No. Expiration No. 1995 Components: Name of Manufacturer National Other Identification No. 1995 Components: Name of Manufacturer National Other Identification No. 1995 Components: Name of Manufacturer National Other Identification No. 1995 Components: Name of Manufacturer National Other Identification No. 1995 Components: Name of Manufacturer National Other Identification No. 1995 Components: Name of Manufacturer National Other Repair/Replacement Activity: 1995 No. 1995 Components: Name of Manufacturer National Other Repair/Replacement Activity: 1995 No. 1995 Components: Name of Manufacturer National Other Repair/Replacement Activity: 1995 No. 1995 Components: Name of Manufacturer National Other Repair/Replacement Activity: 1995 No. 1995 N	Valnut Grove Avenue, Rosemead, CA 91770 The Nuclear Generating Station ox 128, San Clemente, CA 92672-0128 Repair/Replacement Plan Wo: 800369335 Type Code Symbol Stamp Authorization No: Expiration Date: Construction Code: ASME Section III, Class 2, 1974 Edition, S. 1974 addenda Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; Components: Name of Manufacturer Serial No. Board Identification Built Crosby Valve N58737-01-0009 N/A 3PSV8406 1976 & Gage Crosby Valve N58737-01-0031 N/A ILN # 890000007402 1977 & Gage Mackson Inc Heat # 11503850 N/A RSO-0521-05-00 N/A SA193 Gr.B7 Mackson Inc Heat Code "AQG" SA193 Gr.B7 Mackson Inc Heat Code "AQG" SA193 Gr.B7 Mackson Inc Heat Code "AVM" RSO-0521-05-00 N/A SA194 Gr.7 Tork: Year Valve located in plant position 3PSV8406 was replaced as a scheduled preventate are valve (s/n N58737-01-0031). 12 inlet studs and nuts were replaced in conjunction studies were fabricated under work order 800494646. The removed valve was placed VT-2 examination and system leakage test was performed when valve return to ser	Valnut Grove Avenue, Rosemead, CA 91770 The Nuclear Generating Station ox 128, San Clemente, CA 92672-0128 The Nuclear Generating Station ox 128, San Clemente, CA 92672-0128 The Nuclear Generating Station ox 128, San Clemente, CA 92672-0128 The Nuclear Generating Station ox 128, San Clemente, CA 92672-0128 The Nuclear Generating Station ox 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: ASME SECT DATA-0190 WO: 800369335 Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A Construction Code: ASME Section III, Class 2, 1974 Edition, S. 1974 addenda Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda Components: Name of Manufacturer National Other Year Identification Built Installed Corosby Valve N58737-01-0009 N/A 3PSV8406 1976 Removed, or Installed Crosby Valve N58737-01-0001 N/A ILN #890000007402 1977 Installed & Gage Crosby Valve N58737-01-0031 N/A ILN #890000007402 1977 Installed & Gage Mackson Inc Heat # 11503850 N/A RSO-0521-05-00 N/A Installed Heat Code "AQG" SA193 Gr.B7 Mackson Inc Ht.# M82952, N/A ILN-10000007021, N/A Installed Mackson Inc Heat Code "AVM" SA194 Gr.7	

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

Test Temp: N/A

Pressure: 1011 psia

9. **Remarks:** RoR 002-03 reconciles the replacement studs which are certified to the 1989 Edition, no add. RoR-012-03 reconciles the replacement 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: Supervising ASME Code Engineer Date: 4/15/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>2/12/11</u> , 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 NB13402-1 (A2093 California (National Board, State, Province, and Endorsements)
Date

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern Address: 2244 W		son Company venue, Rosemead, C	CA 91770	Date: 04/14/11		Sh	eet 1 of 1
				Unit: 3			
2. Plant: San Onofr Address: P.O. Bo		erating Station emente, CA 92672-	0128 Er n	Repair/Replaceme	ent Plan	a: ASME SECT DATA-0185	ION XI
3. Work Performed Address: 2244 W	•	California Edison C venue, Rosemead, C		WO: 800369336			
4. Identification of S	System: Main	Steam System		Type Code Symbo Authorization No Expiration Date:	_	N/A N/A N/A	
5. (a) Applicable	Construction (Code: ASME Section	on III, Class	s 2, 1974 Edition, S. 1974 ad	ldenda	,	
(b) Applicable	Edition of Sec	tion XI Utilized for	Repair/R	eplacement Activity: 1995	Edition;	1996 Addenda	
6. Identification of (Components:		٠.	The State of the Contract of the	} /	e e e e e e e e e e e e e e e e e e e	r., .
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	N58737-01-0017	N/A	3PSV8410	1976	Removed	Yes
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58737-01-0034	N/A	ILN # 89000007402	1977	Installed	Yes
1-3/8"-8UN(3A) Inlet Studs (12)	Nova Machine Products Inc	Heat # 72814, Heat Code "4S38"	N/A	ILN# 10000027369 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
with a refurbished spareplacement. The inle	y valve located are valve (s/n N et studs were fa	158737-01-0034). 12 bricated under work	2 inlet stud order 800	ras replaced as a scheduled p s and nuts were replaced in c 494646. The removed valve s performed when valve retu	onjunct was plac rn to ser	ion with the valued in the rebuil	ve
8. Tests Conducted:	: Hydrostatic	: Pneumatic:	Nor	minal Operating Pressure:_	<u>X</u> E	xempt:	Other:
	Pressure:	<u> 1011 </u>	est Temp:_	N/A °F			

NOTE:

9. **Remarks:** RoR 002-03 reconciles the replacement studs which are certified to the 1989 Edition, no add. RoR-012-03 reconciles the replacement 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: Signed: Supervising ASME Code Engineer Date: 4/15/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>8/5/10</u> to <u>7/17/11</u> , 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.
Commissions NG13402-1 CA2093 California
Inspector's Signature (National Board, State, Province, and Endorsements)
Date

As Required by the Provisions of the ASME Code Section XI

 Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 					1/11	SI	reet 1 of 1		
				Unit: 3	Unit: 3				
2. Plant: San Onofr Address: P.O. Bo		erating Station emente, CA 92672-	0128	Repair/Rep		: ASME SECT DATA-0186	ION XI		
3. Work Performed Address: 2244 V		California Edison C venue, Rosemead, C		WO: 80036		DA1A-0100			
4. Identification of	System: Main !	Steam System		Type Code Authorizat Expiration		N/A N/A N/A			
5. (a) Applicable	Construction (Code: ASME Section	on III, Clas	s 2, 1974 Edition, S.	1974 addenda				
(b) Applicable	Edition of Sec	tion XI Utilized for	Repair/R	eplacement 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	N58737-01-0027	N/A	3PSV8411	1977	Removed	Yes		
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58737-01-0019	N/A	ILN # 890000007	402 1977	Installed	Yes		
1-3/8"-8UN(3A) Inlet Studs (9)	Nova Machine Products Inc	Heat # 72814 Heat Code "4S38"	N/A · ·	SA 193 'GriB'7 ILN-100000273	69 N/A	Installed	No		
1-3/8"-8UN(3A) Inlet Studs (3)	Mackson Inc	Heat # 11503850 Heat Code "AQG"	N/A	RSO-0521-05-0 SA193 Gr.B7	0 N/A	Installed	No		
1-3/8" Heavy Hex Nuts (12)	Mackson Inc	Ht.# M82952, Heat Code "AVM"	N/A	ILN-1000000703 SA194 Gr.7	21, N/A	Installed	No		
7. Description of W	ork:	មក្សាស្រ ស្រ	N. C. 344		MAN X	$^{\prime\prime}IMI$			
with a refurbished spare replacement. The inle	are valve (s/n Net studs were fal	158737-01-0019). 12 bricated under work	2 inlet stud order 800	vas replaced as a scheos and nuts were replaced 494646. The removed us performed when val	duled preventat ced in conjunct valve was plac	ive maintenance ion with the val ced in the rebuil	ve		
	: Hydrostatic		No	ninal Operating Pre		xempt:	Other:		

9. Remarks: RoR 002-03 reconciles the replacement studs which are certified to the 1971 Edition, no add. RoR-012-03 reconciles the replacement 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: Supervising ASME Code Engineer Date: 4/4/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>R/Q/ID</u> to <u>V/IV/II</u> , 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.								
Commissions NS/3402-1 CA 2093 California								

Date 4/29/11

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

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

4. Identification of System: Main Steam System

Date: 04/04/11

Sheet 1 of 1

Unit: 3

Repair/Replacement Plan: ASME SECTION XI

DATA-0189

WO: 800369811

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	N58737-01-0016	N/A	3PSV8414	1976	Removed	Yes
6" x 10" Main Stm. Safety Valve	Crosby Valve & Gage	N58737-01-0021	Ņ/A	ILN # 89 0000007402	1977	Installed	Yes
1-3/8"-8UN(3A) Inlet Studs (12)	Nova Machine Products Inc	Heat # 72814 Heat Code "4S38"	N/A + ≥	SA 193 Gr. B7 ILN-10000027369	N/A	Installed	No
1-3/8" Heavy Hex Nuts (12)	Mackson Inc	Ht.# M82952, Heat Code "AVM"	N/A	ILN-10000007021, SA194 Gr.7	N/A	Installed	No

7. Description of Work:

NOTE:

The main steam safety valve located in plant position 3PSV8414 was replaced as a scheduled preventative maintenance action with a refurbished spare valve (s/n N58737-01-0021). 12 inlet studs and nuts were replaced in conjunction with the valve replacement. The inlet studs were fabricated under work order 800494646. 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	: 1	Pneumat	ic:	Nominal	Operating P	ressure: X	Exempt:	Other:
	F	Pressure:	1011	psia	Test Ter	np:	N/A	°F		

9. **Remarks:** RoR 002-03 reconciles the replacement studs which are certified to the 1971 Edition, no add. RoR-012-03 reconciles the replacement 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: Supervising ASME Code Engineer Date: 4/4/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>8/5/10</u> to <u>2/12/11</u> , 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 N8/340Z-1 CA2093 California (National Board, State, Province, and Endorsements)								

4/29/11

Date ___

As Required by the Provisions of the ASME Code Section XI

. Owner: South							
		lison Company Avenue, Rosemead,	CA 01770	Date: 01/11/20	10	S	heet 1 of 1
Address: 2244	wantui Grove F	venue, Rosemead,	, CA 91770	Unit: 3			
Plant: San One						00040000	2010
		emente, CA 92672		Repair/Replace 800429910-001			
		California Edison venue, Rosemead,		WO: 80042833:	2, 800429	910, 800430626	5
Identification o	f System: Safety	Injection System		Type Code Sym Authorization N		p: N/A N/A	
(a) Applicable	e Construction (Code: ASME Sect	ion III, Class	Expiration Date 2, 1974 Edition, summer		N/A enda	
(b) Applicable	Edition of Sect	ion XI Utilized fo	r Renair/Re	eplacement Activity: 199	5 Edition:	1996 Addenda	
• • • • • • • • • • • • • • • • • • • •		ion it otherwise	i repuii/re	pincement retirity (199)	<i>- - - - - - - - - -</i>	1,7,0,1,000,100	
Identification of	Components:						
			T			Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Built	lnstalled	Stamped Yes/No
2 x 4 x 87/6" Lug	Jessop Steel	Heat # 11625	N/A	SA240 Ty-304 S3-SI-001-H-030	N/A	Corrected	No
Description of W	,						
The south east lug 800428332 to per The lug weld rem Report 3PT-019-(The removed lug 41/6".	g (item 38) show mit inspection of oval areas were of 09. was machined per was reinstalled in elds were dye per	f pipe wall underned by penetrant examination NECP 80043027 in accordance with	eath the lug anined in accordant WO 8 NECP 80042	S1-001-H-030 was remove as part of the requirement in the requirement in the reduce with WR3-09-149 and the waste with WR3-09-149 and the waste with WR3-09-149 and the second se	imposed by and result certical wide WR3-09-1	by Code Case Notes documented of the lug from the lug fro	.513-2. on NDE om 8%" to 0429910.
					•		
ests Conducted.	Hydrostatio	Pneumatice	Namír	nal Operating Pressure:	Exa	mpt: X	Other:

8.

NOTE:

(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: Jy For Al Meiche Supervising ASME Code Engineer Date: 2/22/10

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>(1)(1)(9)</u> to <u>(1)(1)(9)</u>, 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.

MAZCUL	Commissions	CA 2093	California
Inspector's Signature		(National Board, State, Province	, and Endorsements)

Date 4/15/10

As Required by the Provisions of the ASME Code Section XI

l.	Owner:	Southern	California	Edison	Company	
----	--------	----------	------------	--------	---------	--

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

Date: 04/08/2010 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: 800453586

4. Identification of System: Mechanical Penetration

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S. '74 addenda

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

6. Identification of Components:

NOTE:

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"-9UN x 5 ½" Stud Bolt (1)	Mackson Inc	Heat # 470650	N/A	ILN-010000010325, SA193 gr.B7	N/A	Installed	No
7/8"-9UN Heavy Hex Nut (3)	Mackson Inc.	Heat # 247049 Heat Code: JSY	N/A	RSO-0788-06 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 R3C16 outage. (1) stud bolt and (3) nuts were replaced inkind. The replacement stud bolt was fabricated from a length of 36" all-thread material in accordance with the requirements of RRP GEN-239 Rev.1. An LLRT of the penetration was performed in accordance with procedure SO23-3-3.51.1 when reassembled.

ENLY HAVE NOTES 1 3 MENOR 8. Tests Conducted: Hydrostatic: ___ Pneumatic: ___ Nominal Operating Pressure: ___ Exempt: ___ Pressure: N/A psi Test Temp: N/A

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

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: 4/11/2011

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>7/16/10</u> to <u>V/1/11</u>, 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.

	Commissions	NB13402-1	CA2093	California
Inspector's Signature		(National Board,	and Endorsements)	
Date				

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern Address: 2244 W	Date: 2/25/11		S	heet 1 of 1			
2. Plant: San Onofr	e Nuclear Gener	rating Station		Unit: 3			
Address: P.O. Bo			-0128	Repair/Replacem	ent Plan	: GEN-206	
3. Work Performed Address: 2244 W				WO: 800457805			
4. Identification of				Type Code Symb Authorization No Expiration Date:);	N/A N/A N/A	
i. (a) Applicable	Construction C			s 1, 1971 Edition, W.'71 a s 1, 1980 Edition, S. '82 I			
(b) Applicable	Edition of Secti	on XI Utilized fo	r Repair/Rep	placement 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	1714880-3	1172.	SO23-Cart#22	1986	Removed	Yes
RCP Mechanical. Seal	Bingham Willamette	1714880-2	1171	SO23-Cart#21 Rebuild WO 800062426	1986	Installed	Yes
	SONGS rebuild per NMO 800605	program under NN	AO 80006242	was replaced with a spare 6. The removed seal cartr	idge was		
	**		. •				
						· , e	
		-					

Test Temp: >280 °F

VT-2 Exam. performed per procedure SO23-XVII-3.1.1 Pressure: 2250 psi

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 Star Al Meichler Supervising ASME Code Engineer Date: 2/28/2011

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>7/19/10</u> to <u>2/11/11</u>, 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.

	WAZENA	Commissions NB13402-1 42093 California
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	ulialii	

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770					Date: 11/18/2010 Sheet 1 o			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 Plans: 3-M0P-7054-2, R2 & 3-M0P-7054-2A				
 Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 					WO: 80046043	3			
4. Identification of System: 1201 (Reactor Coolant System)					NECP: 8000726	50, 8000	072652 and 800	072648	
					WP&IR: 25221-003-M0P-7054-00002-000 & WCN 25221-003-M0N-7054-00002 Type Code Symbol Stamp: N/A				
SO23-617-		71403 & D1200			Authorization N Expiration Date		N/A N/A		
(b) Applicable	Edition of Section	XI Utilized for	Repair/Rep	olaceme	nt Activity: 1995	Edition;	,		
Name of . Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Id	Other lentification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No	
Replacement Steam Generator (RSG)	Mitsubishi Heavy Industries	B-SGP-112	5864		1301ME089 SO-0018-10	2010	see block 7	Yes	
8. Tests Conducted: No pressure testing i					g Pressure:psi Tes				

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: Roga X John as for A B Merch/et Supervising ASME Code Engineer Date: 11/18/10

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 Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period os /13/10 to 11/16/10, 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.

Commissions NB6752 A, B. I, N, NS MN054531
Inspector's Signature (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

1. Owner: South		Edison Company Avenue, Rosemead	L CA 91770	Date: 11/10/2	010		Sheet 1 of 1
		, , , , , , , , , , , , , , , , , , , ,	, -, -, -, -, -, -, -, -, -, -, -, -, -,	Unit: 3			
2. Plant: San On Address: P.O.		nerating Station Jemente, CA 9267	2-0128	Repair/Repla	cement Pl	an: 3-M0P-705	5-1
3. Work Perform		n California Edison Avenue, Rosemead,		W O: 8004604	34		
4. Identification of Systems)		,		ter Type Code Sy Authorization Expiration Da	No:	np: N/A N/A N/A	
• •				1, 1998 Edition, 2000 A			
(b) Applicable	Edition of Sec	tion XI Utilized for	r Repair/Re	placement Activity: 199)5 Edition;	: 1996 Addenda	ı
6. Identification of	Components:	ı					
			T			Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped Yes/No
Steam Generator	Mitsubishi Heavy Indus.	B-SGP-113	5865	S31301ME088	2010	see block 7	Yes Note (a)
and the nozzles mach	ine beveled in pi " I.D. main stean ne nozzle ends an	reparation for instal n nozzle and 4" NP nd no defects were	llation of the S blowdown	sel secondary side nozzle replacement vessel. Inci nozzle. Surface examin	luded in th	is scope were:	18" NPS
	ary (tube) and se ass 1) requiremen		es of the Stea	in Generator were const	ructed and	stamped to AS	вме III,
b). No pressu	re testing is requ	ired for this scope	of work.				
Tests Conducted:	Hydrostatic:	_ Pneumatic:	Nomina	l Operating Pressure:_	Exer	npt: <u>X</u> Of	her:
		Pres	sure: <u>N/A</u>	psi Test	Гетр:	N/A	_°F

NOTE:

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: Roya Tholman for ABMerchler Supervising ASME Code Engineer Date: 11/10/10

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 <u>Minnesota</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>OS/14/10</u> to <u>II/10/10</u>, 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.

Commissions NB6752. A, B, I, N, NS, MN054531
Inspector's Signature (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

1. Owner: South Address: 2244	Date: 11/08/20)10	2	Sheet I of I				
 Plant: San Onofic Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 					Repair/Replacement Plan: 3-M0P-7055-2			
 Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue. Rosemead, CA 91770 Identification of System: 1301 & 1305 (Main Steam & Feedwater Systems) 					WO: 800460435 Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A			
	Edition of Sec	Code: ASME Secti					1996 Addenda	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	lde	Other entification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Steam Generator	Mitsubishi Heavy Indus.	B-SGP-112	5864	S31	301ME089	2010	see block 7	Yes Note (a)
7. Description of We and the nozzles machifeedwater nozzle, 38' machined bevels on the Reference: WP&IR 25	ne beveled in pi ' I.D. main stear e nozzle ends ai	reparation for instal in nozzle and 4" NP ind no defects were	lation of the S blowdov	ne replacen	nent vessel. Incl	uded in th	is scope were: I	8" NPS
a). Both prima	ary (tube) and so ass 1) requireme	econdary (shell) sid nts.	es of the S	team Gene	rator were consti	ructed and	stamped to AS	ME III,
b). No pressu	re testing is requ	aired for this scope	of work.					
3. Tests Conducted:	Hydrostatic:			•	ting Pressure:psi Test T			her: _°F

NOTE:

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: Rogar Stolmes for ASMeichasupervising ASME Code Engineer Date: 11/9/10

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 <u>Minnesota</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>OS/14/10</u> to <u>U/OS/10</u>, 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 NB6752, A, B, I, N, NS, MN054531

(National Board, State, Province, and Endorsements)

Date 11/08/10

		As Required by the Pro	=======	ASME Code Section XI			
	uthern California Edia 244 Walnut Grove Av	son Company venue, Rosemead, CA	91770	Date: 1/1/2011			Sheet 1 of
		, - 100, - 1100	2	Unit: 3			
	Dnof <mark>re N</mark> uclear Genci						
		nente, CA 92672-0128		Repair/Replace M0P-7057-1.A	ment Pi	ans: 3-M0P-70:	57-1, 3-
3. Work Perfor	med by: Southern C	California Edison Comp	oany				
		enue, Rosemead, CA 9	1770	WO : 800460439 WP&IR : 25221-		P-7057-00001-	000(note a
4. Identification	of System: 1301 (M	lain Steam System)					
	00072648, ASC D00			Type Code Syml		ıp: N/A	
Dwgs: S	3-1301-ML-001 Sh 3	(ECN D0039039, PIC	C D0042148	•		N/A	
5 (a) 4 . 11 . 1				Expiration Date:		N/A	
5. (a) Applical	ole Construction Co	de: ASME Section III,	Class 2, 19	74 Edition, Summer	1974 Ad	denda [see note	(b)]
(b) Applical	ne Edition of Section	n XI Utilized for Repa	air/Replace	ement Activity: 1995	Edition	; 1996 Addenda	
6. Identification	of Components						
	or components.			1		Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped
							Yes/No
Main Steam Line	Pullman Kellogg	N-8935	N/A	spool 3-ST-001-1	1978	see block 7	Yes
N5: S3-1301-1		N-6083	N/A	spool 3-ST-001-2	1978		
Φ42 x 2.00" MW Pipe; approx. 3'	Taylor Forge Eng. Systems Inc.	S/N 0460-P01-04 Ht. Code PCMA OA-3	N/A	ILN 10000013556 SA-155 KCF70 Cl 1	2009	Installed	Yes
1-1/4" 6000# SW B2		Heat Code "5205ANB"	N/A	ILN 10000024059		Installed	No
Boss; RoR-002-07	Products, Inc.	13 miles 1		SA-234-WPB		motanoa	110
1-1/4" SW Plug;	Dubose National	Heat Code "BIZ"	N/A	ILN 10000016462		Installed	No
RoR-016-03	Energy Services.	<u> </u>		SA-105	لنحصت	<u> </u>	
eplacement of stear nd machined to ma dded (between weld istallation. All we T. The attachment	n generator S31301M tch the vessel nozzle ds "CK" and "CG") a eld preps were examinate weld ("CJ") of the 1	nain steam piping about ME088. The vessel end be bore. The built up are at the downstream end ned by PT. The three -1/4" RT Boss adjacen NF" pipe supports asso	of the remore was examed of the remore 42" OD girth to weld "C	oved pipe spool was be nined by MT & RT. A wed pipe section to fa th welds ("CH", "CK" CH" was examined by	ouild-up A short le icilitate to and "C MT and mented or	by welding on tength of new pignit-up during re- G") were exam I the socket well a separate NIS	he I.D. pe was ined by ded plug
he following Preser	vice Examinations w	ere performed:			, . ` ,	. • }	
" OD pipe welds: '	'CH", ISI Designator	03-051-010 and "CG"	', ISI Design	nator 03-051-052, MT	and U	r	
a). The folio M0N-7057-(b). Vessel co	owing change notices 00001, 25221-003-M onstruction code editi	(WCNs) were issued a 10N-7057-10001, 2522 ion (1998 Edition, 2000 eria for all welds was N	gainst WP& 1-003-M0N 0 Addenda)	&IR 25221-003-M0P- 1-7057-20001 was used for the vess	7057-00 sel/pipe v	001-000: 2522 weld. The weld	ing NDE
stem Leakage Test	and VT-2 Exam were	e conducted on NMO 8	300496189.	Operation 0060			
			,	oporation ocoo			

Pressure: 1011 psia

Test Temp: 546 °F

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: Rogal Holmes for ABMeich lev Supervising ASME Code Engineer Date: 3/22/11 Owner or Owner's Designee, Title							
CERTIFICATE OF INSERVICE INSPECTION							
the undersigned heldler a will have been the arm of the production							

	1 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
State or Province of <u>Califor</u> this Owner's Report during the	valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the nia, and employed by HSB-CT of Hartford, CT have inspected the components described in the period 10-14-10 to 01-03-11, and state that to the best of my knowledge and med examinations and taken corrective measures described in this Owner's Report in accordance ASME Code, Section XI.
examinations and corrective i	ither the Inspector nor his employer makes any warranty, expressed or implied, concerning the neasures described in this Owner's Report. Furthermore, neither the Inspector nor his employer for any personal injury or property damage or a loss of any kind arising from or connected with
Inspector's Signature	Commissions NB12050 A, N, I CA1969 (National Board, State, Province, and Endorsements)
Date 5-22-11	

As Required by the Provisions of the ASME Code Section XI

		son Company /enue, Rosemead, CA	01770	Date: 1/1/2011			Sheet 1 of
	or manual Grove M	ontro, resonnead, CA	91770	Unit: 3			
	nofre Nuclear Gener			o 2			
Address: P.O	Box 128, San Cler	nente, CA 92672-0128	3	Repair/Replace M0P-7057-2,A	ment Pl	ans: 3-M0P-705	57-2, 3-
3. Work Perform	ned by: Southern C	California Edison Comp	any				
Address: 224	4 Walnut Grove Ave	enue, Rosemead, CA 9	1770	WO : 800460481			
4 Identification	of Sustanu 1201 (N	faire Starre Santaur		WP&IR: 25221-	-003-M0	P-7057-00002-0)00(note a)
NECP 80	of System: 1301 (M 0072648, ASC D00	iam Steam System)		Type Code Syml	hol Stan	m. N/A	
		(ECN D0039040, PIC	C D0042149			.p. 14/A N/A	
O		(2011) 200050 10,110	3 B 00 (B1)	Expiration Date:		N/A	
5. (a) Applicabl	le Construction Co	de: ASME Section III,	Class 2, 19				(b)]
		n XI Utilized for Repa					
. Identification o	f.Commonoutes						
. Identification o	Components:	1			7	Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped
							Yes/No
Main Steam Line	Pullman Kellogg	N-8934	N/A	spool 3-ST-001-1	1978	see block 7	Yes
N5: S3-1301-2		N-6081	N/A	spool 3-ST-001-2	1978		
Ф42 x 2.00" MW Pipe; approx. 3'	Taylor Forge Eng. Systems Inc.	S/N 0460-P01-04 Ht. Code PCMA OA-3	N/A	ILN 10000013556 SA-155 KCF70 Cl 1	2009	Installed	Yes
1/4" 6000# SW B2	WFI Nuclear	Heat Code "5205ANB"	N/A	ILN 10000024059		Installed	No
oss; RoR-002-07	Products, Inc.	11 4 35 74 17		SA-234-WPB		11101011011	
1-1/4" SW Plug;	Dubose National	Heat Code "BIZ"	N/A	ILN 10000016462		Installed	No
RoR-016-03	Energy Services.			··· SA-105··			
D 1 11 022			1 1771 1			noved to facilita	
placement of steam of machined to mate ded (between weld tallation. All wel of The attachment of The Tr. Note	generator \$31301N the the vessel nozzle s "CK" and "CG") a d preps were examinated ("CJ") of the 1 :: The work to the "	ME089. The vessel end bore. The built up are at the downstream end ned by PT. The three -1/4" RT Boss adjacen NF" pipe supports asso	of the remove a was examof the remove 42" OD girth to weld "C	oved pipe spool was be nined by MT & RT. A ved pipe section to fact the welds ("CH", "CK CH" was examined by	ouild-up A short I acilitate i " and "C y MT an aented or	by welding on tength of new pig fit-up during re- (G'') were examind the socket well as a separate NIS	he I.D. be was ined by ded plug
lacement of steam machined to mate led (between weld allation. All weld. The attachment CT") by PT. Note following Preserv	generator S31301N ch the vessel nozzle s "CK" and "CG") a d preps were exami- weld ("CJ") of the 1 :: The work to the " vice Examinations w	ME089. The vessel end bore. The built up are at the downstream end ned by PT. The three -1/4" RT Boss adjacen NF" pipe supports asso	of the remore was examinated of the remore desired of the remore desired of the remore desired of the remore desired of the remove d	oved pipe spool was be nined by MT & RT. A ved pipe section to fact the welds ("CH", "CK CH" was examined by	ouild-up A short I acilitate i " and "C y MT an aented or	by welding on t ength of new pir fit-up during re- G") were examind the socket wel	he I.D. be was ined by ded plug
placement of steam I machined to mate led (between weld stallation. All wel The attachment of The attachment of The office following Preserv OD pipe weld: "C a). The following Description Mon-7057-0 b). Vessel con	generator \$31301N the the vessel nozzle is "CK" and "CG") a d preps were examinated weld ("CJ") of the 1 The work to the " vice Examinations we "CH", ISI Designator wing change notices 0002 and 25221-00 instruction code editi	ME089. The vessel end bore. The built up are at the downstream end ned by PT. The three -1/4" RT Boss adjacen NF" pipe supports assovere performed:	of the removed was examinated the removed 42" OD girth to weld "Contacted with The removed with the transfer of the removed with	oved pipe spool was beined by MT & RT. A ved pipe section to factor with welds ("CH", "CK CH" was examined by this scope are documentally was used for the vess	ouild-up A short I he ilitate in and "C y MT an hented or in a control of the con	by welding on tength of new pigint-up during re- G") were examind the socket weln a separate NIS	he I.D. he was ined by ided plug -2. 1-003- ing NDE
d machined to mate ded (between weld tallation. All weld tallation. All weld tallation. All weld to the attachment of the following Preserve OD pipe weld: "Compare all the following Mon-7057-0 b). Vessel compathodology 14.	generator S31301N ch the vessel nozzle is "CK" and "CG") a d preps were examined ("CJ") of the 1 is: The work to the "vice Examinations well,", ISI Designator wing change notices 0002 and 25221-00 instruction code editional acceptance critical code in the contract of th	ME089. The vessel end bore. The built up are at the downstream end ned by PT. The three 1/4" RT Boss adjacen NF" pipe supports assovere performed: (WCNs) were issued a 3-M0N-7057-10002 ion (1998 Edition, 2006).	of the remore was example of the remore of the remore of the remore desired with the control of the remore of the	oved pipe spool was beined by MT & RT. Aved pipe section to facth welds ("CH", "CK" was examined by this scope are documentally as used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition, 1996 Additionally was used for the vess 195 Edition was used for the vess 195	ouild-up A short I he ilitate in and "C y MT an hented or in a control of the con	by welding on tength of new pigint-up during re- G") were examind the socket weln a separate NIS	he I.D. he was ined by ided plug -2. 1-003- ing NDE

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: Rogan Halmes for AB Merch les Supervising ASME Code Engineer Date: 2/15/11 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 volume to volume to volume, 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 NB12050 A, N, I CA1969 (National Board, State, Province, and Endorsements)
Date 3-22-11	

As Required by the Provisions of the ASME Code Section XI

1

	ern California Edison C Walnut Grove Avenue		91770	Date: 1/5/2011			Sheet 1 of
			21770	Unit: 3			
	fre Nuclear Generating Box 128, San Clemente		3	Repair/Replace	ment Pl	ans: 3-M0P-70:	57-5
	d by: Southern Califo Walnut Grove Avenue,			WO: 800460486 WP&IR: 25221		P-7057-00005-	000(note a)
NECP 8000 Dwgs: S3-S 001-H-003(001-H-005(System: 1301 (Main S 072648, ASC D003704 07-001(DCN 2), S3-ST DCNs 1-5), S3-ST-001 DCNs 1-3), S3-ST-001- DCN 1-3), S3-ST-001-	6 -001-H-002(DCN I-H-004(DCNs I- I-H-006(DCNs I-	6), S3-ST- 7), S3-ST-	Type Code Sym Authorization N Expiration Date	o:	np: N/A N/A N/A	
	Construction Code: A	·	·				
(b) Applicable 1 6. Identification of 0	Edition of Section XI Components:	Offitzed for Repa	ur/Replace	ment Activity: 1995	Edition	1996 Addenda	
						Corrected,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Code Stamped Yes/No
Main Steam Line	Pullman Kellogg	N5: S3-1301-1	N/A	S3-1301-ML-001		see block 7	Yes
Support, Snubber	Bechtel Power Corp.	N/A	N/A	S3-ST-001-H-001		Corrected	
Support, Snubber	Bechtel Power Corp	N/A	N/A	S3-ST-001-H-002		Corrected	
Support Spring Cans	Bechtel Power Corp	N/A	N/A	S3-ST-001-H-003		Corrected	
Support, Snubber	Bechtel Power Corp	N/A	N/A	S3-ST-001-H-004		Corrected	
Support, Snubber	Bechtel Power Corp	N/A	N/A	S3-ST-001-H-005		Corrected	
Support Spring Cans	Bechtel Power Corp	N/A	N/A	S3-ST-001-H-006		Corrected	
Support, Snubber	Bechtel Power Corp	N/A	N/A	S3-ST-001-H-008		Corrected	
Support, Snubber	Bechtel Power Corp	N/A	N/A	S3-ST-001-H-009		Corrected	
7. Description of Wor replacement of steam gor removed, reinstalled and reinstallation and adjust	enerator S31301ME088 d adjusted to within de	8 (pipework is do	cumented or	n a separate NIS-2).	The supp	orts listed abov	ve were
	ng change notices (WC 005, 25221-003-M0N-1		against WP&	&IR 25221-003-M0P	-7057-0	0005-000: 2522	21-003-
8. Tests Conducted:	Hydrostatic: F VT-3:X		Nominal Op <u>N/A</u>	perating Pressure: psi Test To	Exemp:		her: <u>X</u> _°F

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: Date: 1/21/11

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 <u>Minnesota</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period of oto oto to oto the 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 NB6752 A. B. I. N. NS MN054531
(National Board, State, Province, and Endorsements)

Date _ 01/25/11

1

see block 7

No

No

No

No

No

==========	/ 	As Required by the I	rovisions of the	ASME Code Section XI			
1. Owner: Sout Address: 224	Date: 12/21/20	Date: 12/21/2010					
				Unit: 3			
2. Plant: San Oi Address: P.O	Repair/Replace	Repair/Replacement Plans: 3-M0P-7057-6					
3. Work Perform Address: 224		WO: 800460487 WP&IR: 25221-003-M0P-7057-00006-000					
NECP 800072648 Support Dwgs: S3- 002(DCNs 1-4 & 1 ECN A31642), H-0	of System: 1301 (Main ; ISO: S3-1301-ML-00: -ST-002-H-001(DCNs ECN A31641), H-003(E 005(DCNs 1-5), H-006(& ECN A31644), H-009	2, Sh 3; 1-3 & ECN A316 DCNs 1-6), H-004 (DCNs 1-5), H-00	1(DCNs 1-5 &		lo:	np: N/A N/A N/A	
5. (a) Applicab	le Construction Code:	ASME Section I	II, NF, Class :	2, 1974 Edition, Sum	mer 197	4 Addenda	
(b) Applicabl	e Edition of Section X	I Utilized for Re	pair/Replace	ement Activity: 1995	Edition	; 1996 Addenda	1
. Identification o	f 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
Main Steam Line	Pullman Kellogg	N5: S3-1301-2	N/A	S3-1301-ML-002		see block 7	Yes
3-ST-002-H-001	Bechtel Power Corp	N/A	N/A			see block 7	No
33-ST-002-H-002	Bechtel Power Corp	N/A	N/A			see block 7	No
33-ST-002-H-003	Bechtel Power Corp	N/A	N/A			see block 7	No

7. Description of Work: The pipe supports listed above were removed/reinstalled in conjunction with removal/reinstallation of the pipe spool, also listed above. This work scope is associated with the replacement of steam generator \$31301ME089. The supports were adjusted after re-installation as necessary to bring them into compliance with the design cold settings. One of the load pins on support S3-ST-002-H-001 was damaged during removal (ref. Bechtel NCR 25221-003-G61-GCX-00092) and was subsequently replaced. The pin replacement is documented on a separate NIS-2 (ref. NMO 800613420). A VT-3 Examination was performed on each the supports after reinstallation and adjustment.

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

8. Tests Conducted:	Hydrostatic:	Pneumati	c: Nor	minal Operating	Pressu	re: Exemp	ot:	Other:	<u>K</u>
	VT-3	: <u>X</u>	Pressure:	N/A	psi	Test Temp:	N/A	o.k	

S3-ST-002-H-004

S3-ST-002-H-005

S3-ST-002-H-006

S3-ST-002-H-008

S3-ST-002-H-009

Bechtel Power Corp

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

Supervising ASME Code Engineer Date

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

1, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period o6/9/10 to 01/25/11, 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.

_____ Commissions NB6752 A, B, I, N, NS MN054531

Inspector's Signature

(National Board, State, Province, and Endorsements)

01/25/11

As Required by the Provisions of the ASME Code Section XI

=====	352222 <u>2</u>			========				======:	
		ern California Edia Walnut Grove Av		CA 91770	Date: 1/9/201			Sheet 1 of	
				:	Unit: 3	Unit: 3			
		ofre Nuclear Gener Box 128, San Cler		2-0128	Repair/Replac	ement Pl	an: 3-M0P-705	8-2	
3. Worl	Rerform	ed by: Southern C Walnut Grove Ave	California Edison	Company	WO: 80046048	9			
					WP&IR: 2522	1-003-M0	P-7058-00002-0	000(note a	
NECP 80	0139902, . & PIC D00	f System: 1305 (F ASC D0040234; I 29693), S3-1305-1	Dwgs: S3-1305-M	L-190, Sh 2	(ECN Type Code Syn 14); Authorization I Expiration Date	Vo:	np: N/A N/A N/A		
5. (a) A	Applicable	Construction Co	de: ASME Section	on III, Class	2, 1974 Edition, Summer	· 1974 Ad	ldenda [see note	(b)]	
(b) A	уррисавіе	Edition of Section	n XI Utilized for	Repair/Re	placement Activity: 199	5 Edition	; 1996 Addenda		
6. Identif	ication of	Components:		·	_			,	
Nam	e of	Name of	Manufacturer	Nation-1	Othou	Vacu	Corrected,	ASME	
	onent	Manufacturer	Serial No.	. National Board No.	Other Identification	Year Built	Removed, or Installed	Code Stamped	
_					1402	1 2	11.0,00100	Yes/No	
S3-1305- 20"NPS &		Pullman Kellogg	N-8937 N8940	N/A	Spool S3-FW-190-005 Spool S3-FW-190-006	1978	see block 7	Yes	
18"NPS, 4 (BOM it	om #11)	Taylor Forge	0461-1D	N/A #	ILN 10000012552 (NC) SA-234 gi-WPC/F43 butter	2009	Installed	Yes	
(BOM ite	em #22)	Tioga Pipe Supply Co., Inc.	Heat # 60839	N/A	RSO 1337-07 SA-106 Gr C		Installed	No	
S3-1305- 6"NI	PS	Pullman Kellogg	N-5668	N/A	Spool 3-FW-223-016	1977	see block 7	Yes	
Descrip	tion of Wo	ork: Piping subass	emblies, previous	ly prefabric	ated on work order 07051	497, wer	e installed in the	plant in	
alve S3130 f the 6" au: reverse flow ollowing 6' rhich include	05MU036 (xiliary feed w direction ' pipe weld ded some o	to the nozzle of the lwater line from th). The following I is were performed:	e replacement stea e branch connecti 8" & 20" pipe we "NL" and "DW"	am generatorion off the realds were perfectly in the perfect of th	of this replacement was for S31305ME089. Also in main feedwater line up to erformed "NK", "NF", "Ne Examinations (PSE) we s from the previously presented."	icluded ir and not ir C", "NB" re perfori abricated	n this scope was acluding the second in the second in the required on the requirement.	a portion and elbow ne	
reservice E olumetric d			elds: ISI Number	s 03-044-08	30B (NE), 03-044-070 (N	TP) and 0:	3-044-010 (NA)		
otes: a). 705	The follow: 8-00002.	ing change notice	(WCN) was issue	d against W	P&IR 25221-003-M0P-7	058-0000	02-000: 25221-0	03-M0N-	
					enda) was used for the ve IC-5000, 1995 Edition, 19				
stem Leak	age Test an	d VT-2 Exam con	ducted on NMO 8	300496189,	Operation 0072				
Tests Con	iducted: 1	Hydrostatic:	Pneumatic:	Nominal 6	Operating Pressure: X	Exem	pt: Othe	r:	
- 32.						emp:	546 °F	· ·	

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: Logar Holmes for AB Meich ler Supervising ASME Code Engineer Date: 2/15/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>5-24-10</u> to <u>O-10-11</u>, 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.

\$.0.Dw	Commissions	NB12050 A, N, I	CA1969
Inspector's Signature			, Province, and Endorsements)

Date 3-22-11

 Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 				Date: 12/29/201	10		Sheet 1 o	
			JI 71/10	Unit: 3	Unit: 3			
2. Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128				n!-/pI		2 MADD 705	0.1.0	
Audi ess. F.O. Box 128, San Ciemente, CA 92072-0128				Repair/Replace	ment Pl	an: 3-MUP-705	8-1, Kev	
3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				WO: 800460490	WO: 800460490			
Address: 2244	WP&IR: 25221-	.003 - M0	P-7058-00001-	000(note				
4. Identification of					005 1110	1 7000 00001	000(11010	
NECP 800139902,	ASC D0040234; I)wgs: S3-1305-M	L-189, Sh 2	2 (ECN Type Code Symbol		-		
A52649 & PIC D00 SO23-617-14-D10	129093), 33- 1303-	ML-222, Sn 1 (EC	JN 1000422	76), Authorization N Expiration Date:		N/A N/A		
		•		EMPT RUST Dute.		11/11	•	
(b) Applicable Identification of		n XI Utilized for	Repair/Re	placement Activity: 1995	Edition;	1996 Addenda	,	
2.7						Corrected,	ASME	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Road No.	Other Identification	Year Built	Removed, or Installed	Code	
Component	Manutacturei	senai ivo.	Board No.	Identification	Bullt	Installed	Stamped Yes/No	
S3-1305-ML-189 20"NPS & 18"NPS	Pullman Kellogg	N-8936 N-8941	N/A	Spool S3-FW-189-005 Spool S3-FW-189-006	1980	see block 7	Yes	
18"NPS, 47° elbow (BOM item #10)	Taylor Forge	0461-1B	™ N/A	ILN 10000012552 (NC) SA-234 gr WPC/F43 butter	2009	Installed	Yes	
8"NPS, Sch 100 Pipe (BOM item #17)	Tioga Pipe Supply Co., Inc.	Heat # 60839	N/A	RSO 1337-07 SA-106 Gr C		Installed	No	
S3-1305-ML-222	Pullman Kellogg	N-5751	N/A	Spool S3-FW-222-008	1982	see block 7	Yes	
6"NPS	.[l	t		- 1			
6"NPS Description of Wo	ork: Piping subasso	emblies, previous	ly prefabric	ated on work order 070514	78, were	installed in the	plant in	
6"NPS Description of Wonjunction with replative S31305MU129 the 6" auxiliary feed everse flow direction lowing 6" pipe welcomes.	acement of the stear to the nozzle of the dwater line from the a). The following 1 ds were performed:	m generators. The replacement steade branch connection with the connection of the co	e boundary am generato ion off the nelds were pe "R". Prese	ated on work order 070514 of this replacement was from \$1305ME088\$. Also incommain feedwater line up to an erformed "BU", "BQ", "BN rivice Examinations (PSE) will be performed on work or	om the deluded in defined included incl	ownstream side this scope was ling the second ', and "BK". The formed on both	of check a portion elbow he	
6"NPS Description of Wonjunction with replative S31305MU129 the 6" auxiliary feed everse flow direction lowing 6" pipe weld stallation welds and exercise Examination	to the nozzle of the dwater line from the nozzle of the dwater line from the nozzle of the dwater line from the nozzle of previous the welds of previous:	m generators. The replacement steade branch connection of the conn	e boundary im generato ion off the n elds were po "R". Prese d subassemi	of this replacement was from r S31305ME088. Also incommain feedwater line up to an erformed "BU", "BQ", "BN rvice Examinations (PSE) vice	om the deluded in define the deluged in the deluged	ownstream side this scope was ling the second ', and "BK". To formed on both \$1478.	of check a portion elbow he the field	
6"NPS Description of Wonjunction with replative S31305MU129 the 6" auxiliary feed everse flow direction lowing 6" pipe weld stallation welds and the service Examination lumetric & Surface. tes: a). The follow 7058-00001 as	to the nozzle of the steat to the nozzle of the dwater line from the control of the dwater line from the control of the welds of previous Examination of World of the welds of	m generators. The replacement steade branch connecting the steade branch connecting the steade branch connecting the steader of the steader o	e boundary am generato ion off the n elds were po "R". Prese d subassemb es 03-045-33 d against W	of this replacement was from S31305ME088. Also incomman feedwater line up to an erformed "BU", "BQ", "BN rvice Examinations (PSE) will be performed on work or 10A (BP), 03-045-360 (BK) P&IR 25221-003-M0P-70.	om the doluded in ad included in the doluge of the doluge	ownstream side this scope was ling the second ', and "BK". To formed on both 51478. 3-047-010 (BW 1-000: 25221-0	of check a portion elbow he the field) 03-M0N-	
6"NPS Description of Wonjunction with replative S31305MU129 the 6" auxiliary feed everse flow direction lowing 6" pipe weld stallation welds and exercice Examination lumetric & Surface. tes: a). The follow 7058-00001 are b). Vessel con	to the nozzle of the steat to the nozzle of the dwater line from the state of the state of the state of the state of the welds of previous: Examination of We are change notice of the state of the sta	m generators. The replacement steade branch connection of the conn	e boundary am generato ion off the melds were per "R". Prese d subassembles 03-045-31 d against W a, 2000 Add	of this replacement was from S31305ME088. Also incommon feedwater line up to an erformed "BU", "BQ", "BN rvice Examinations (PSE) whiles performed on work or 10A (BP), 03-045-360 (BR)	om the doluded in ad included in ad included in the control of the	ownstream side this scope was ling the second, and "BK". To formed on both 51478. 3-047-010 (BW 1-000: 25221-0) with weld. The we	of check a portion elbow he the field) 03-M0N- lding	

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: Rogar Holmes for AB Meich lev Supervising ASME Code Engineer Date: 2/15/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>O5-24-W</u> to <u>12-20-W</u>, 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.

±.0.Ju	Commissions NB12050 A, N, I CA1969
Inspector's Signature	(National Board, State, Province, and Endorsements)

Date ______ 3-22-1

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

 Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 				Date: 1/9/2011			Sheet 1 of		
Address: 2244 V	Valnut Grove Avenue,	Rosemead, CA 9	1770	Unit: 3					
	re Nuclear Generating 8 ox 128, San Clemente,			Repair/Replacement Plan: 3-M0P-7058-3					
	by: Southern Californ	•	•	WO: 800460492					
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				WP&IR: 25221-00	03-M0F	°-7058-00003-0	000(note a		
4. Identification of S	System: 1305 (Feedwa	ter System)					` .		
NECP 800139902, ASC D0040234				Type Code Symbo		p: N/A			
Dwgs: S3-FW-189-H-	• • • • • • • • • • • • • • • • • • • •	•		Authorization No:		N/A			
S3-FW-189-H-012 (D				Expiration Date:		N/V			
D0042630), S3-FW-1 7 & 9), S3-FW-189-H				-					
ECN D0000732), S3-1			C148 2-0 C						
<i>"</i>		- ,							
5. (a) Applicable C	Construction Code: A	SME Section III, 1	NF, Class 2,	1974 Edition, Summe	er 1974	Addenda [see 1	note (b)]		
(b) Applicable E	dition of Section XI U	Itilized for Repai	r/Replacen	nent Activity: 1995 E	dition;	1996 Addenda			
6. Identification of C	om non ou to:								
o. Identification of C	omponents:		T	T	T	Corrected,	ASME		
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code		
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped		
)					Yes/No		
Main Feedwater Line	Pullman Kellogg	N5: S3-1305-8	. N/A	S3-1305-ML-189		see block 7	Yes		
Support, Snubbers	Bechtel Power Corp.	N/A	N/A	S3-FW-189-H-010		Installed	No		
Support, Spring Can	Bechtel Power Corp.	N/A	N/A	S3-FW-189-H-011		Corrected	No		
Support, Snubber	Bechtel Power Corp.	N/A	N/A	S3-FW-189-H-012		Installed	No		
Support, Snubbers	Bechtel Power Corp.	N/A	N/A	S3-FW-189-H-013		Installed	No		
Support, Snubber	Bechtel Power Corp.	N/A	N/A	S3-FW-189-H-014		see block 7	No		
Support. Spring Can	Bechtel Power Corp.	N/A	N/A	S3-FW-189-H-015		Corrected	. No		
Support. Spring Can	Bechtel Power Corp.	N/A	N/A	S3-FW-189-H-016		see block 7	No		
Support. Snubber	Bechtel Power Corp.	N/A	N/A	S3-FW-189-I-1-017		see block 7	No		
Aux Feedwater Line	Pullman Kellogg	N5: S3-1305-6	N/A	S3-1305-ML-222		see block 7	Yes		
Support. Spring Can	Bechtel Power Corp.	N/A	N/A	S3-FW-222-H-009		Corrected	No		
7. Description of World			c	. (.1 (.)	. 12				
The pipe support work is steam generator \$31305									
new dummy stubs of the									
The snubbers on support									
was installed. The sprin									
and unblocked/adjusted									
but required no adjustme	nt. Spring hanger S3-	FW-189-H-011 w	as removed	from the replaced pip	e sectio	n and re-instal	led on the		
replacement pipe. VT-3	examinations were per	formed where req	uired after t	he above supports wei	e restoi	red.			
N									
Notes:	mating was ignored as a		1 002 1400	7059 00002 000, 252	21 002	NAON 7059 OC	0003		
a). The following changeb). The welding NDE me									
op. The holding holding	edolo5)/docoptadoc	ornorm for words	1143 141 -500	o, 1770 Dairion, 1770		an per remor n	J. J J I,		
8. Tests Conducted: H	lydrostatic: Pnet	ımatic: Nom	inal Opera	ting Pressure:	Exemp	t: Other	:_X_		
•	VT-3: X		N/A				_°F		

9.	Remarks:	Mana
9.	Kemarks:	None.

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. 13/A

Expiration Date: N/A

Signed: Logia Late: 1/21/11

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 o5/26/10 to 01/24/11, 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.

Incrector's Signature

Commissions NB6752 A. B. I. N. NS MN054531

(National Board, State, Province, and Endorsements)

Date 01/24/11

As Required by the Provisions of the ASME Code Section XI

	 Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 					Date: 12/20/2010			
			id, CA 917	Unit: 3					
2. Plant: San C Address: P.C		enerating Station Clemente, CA 926	72-0128	Repair/Repia	Repair/Replacement Plan: 3-M0P-7058-5				
3. Work Perfor	WO: 8004604	492							
Address: 2244 Walnut Grove Avenue, Rosemead. CA 91770 4. Identification of System: 1305 (Feedwater System) Dwgs: SO23-617-D110, D419 & D420; S3-1305-ML-189 Sh 2, ECN A32649, PIC D0029695				Type Code Sy Authorization Expiration Da	Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A				
	e Edition of Sec			s 1, 1998 Edition, 2000 A		; 1996 Addenda	e sig as		
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	Mitsubishi Heavy Indus.	B-SGP-113	5865	.S31301ME088 RSO-0018-10	2010	see block 7	Yes Note (a)		
water nozzle adjacent 1/16" of material was blended into the surro 3/32" deep. The final Reference: WP&IR 25	to pipe/nozzle v then removed to unding surfaces. repair area was	veld "BK". The arc ensure complete re The resultant repa examined by MT w	ea was groun emoval of th air cavity ma vith satisfact		ens of the a material. Imented as	arc strike. An a The ground area :: 1" long x 5/8"	dditional n was then wide X		
	nry (tube) and sec ss 1) requiremen		es of the Ste	am Generator were constr	ructed and	stamped to ASA	MЕ III.		
b). No pressui	re testing is requi	ired for this scope of	of work.						
8. Tests Conducted:	Hydrostatic:			ol Operating Pressure:					
		Press	sure: <u>N//</u>	A psi Test'I	emp:	N/A	°F		

OTE:

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: Konff Holm & For ABMer Chiler Supervising ASME Code Engineer Date: 12/20/10

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 <u>Minnesota</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>II/3o/10</u> to <u>I2/3o/10</u>, 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.

Commissions NB6752, A, B, I, N, NS, MN054531
Inspector's Signature (National Board, State, Province, and Endorsements)

Date 12/20/10

As Required by the Provisions of the ASME Code Section XI

	California Edison Company Inut Grove Avenue, Rosemead, CA 91770	Date: 1/9/2011	Sheet 1 of 1
71007033. E277 Will	nat Grove Avenue, Rosement, CA 71770	Unit: 3	
	Nuclear Generating Station		
Address: P.O. Box	128, San Clemente, CA 92672-0128	Repair/Replacement Pl	an: 3-M0P-7058-4
•	y: Southern California Edison Company nut Grove Avenue, Rosemead, CA 91770	WO: 800460493	
radicss. 2244 Wan	iai Grove Avenue, Rosemena, CA 71770	WP&IR: 25221-003-M0	P-7058-00004-000(note a)
. Identification of Sys	tem: 1305 (Feedwater System)		
NECP 800139902, ASC	D0040234	Type Code Symbol Stan	np: N/A
0wgs: S3-FW-190-H-01	I (DCNs 6-7 & ECN D0009054), S3-FW-190	-H- Authorization No:	N/A
•	-190-H-013 (DCNs 1 & 4-7, ECN D0009057)		N/A

Dwgs: S3-FW-190-H-011 (DCNs 6-7 & ECN D0009054), S3-FW-190-012 (DCNs 1-3), S3-FW-190-H-013 (DCNs 1 & 4-7, ECN D0009057), S3-FW-190-H-014 (DCNs 5-6 & ECN D0000736), S3-FW-190-H-015 (DCNs 2-4 & 6-7), S3-FW-190-H-016 (DCNs 1-6), S3-FW-190-H-017 (DCNs 1-3), S3-FW-190-H-018 (DCNs 2, 4-6 & ECN D0009059), S3-FW-223-H-001

5. (a) Applicable Construction Code: ASME Section III, NF, Class 2, 1974 Edition, Summer 1974 Addenda [see note (b)]

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

5. Identification of Components:

o. Identification of C	omponents:						
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
Main Feedwater Line	Pullman Kellogg	N5: S3-1305-7	N/A	S3-1305-ML-190		see block 7	Yes
Support, Snubbers	Bechtel Power Corp.	N/A	N/A	S3-FW-190-H-011		Installed	No
Support, Spring Can	Bechtel Power Corp.	N/A	N/A	S3-FW-190-H-012	_	Corrected	No
Support, Snubber	Bechtel Power Corp.	N/A	N/A	S3-FW-190-H-013		Installed	No
Support, Snubbers	Bechtel Power Corp.	N/A	N/A	S3-FW-190-H-014		Installed	No
Support. Snubber	Bechtel Power Corp.	N/A	N/A	S3-FW-190-H-015		see block 7	No
Support. Spring Can	Bechtel Power Corp.	N/A	N/A	S3-FW-190-H-016	_	Corrected	No
Support. Spring Can	Bechtel Power Corp.	N/A	N/A	S3-FW-190-H-017	_	Corrected	. No
Support, Snubber	Bechtel Power Corp.	N/A	N/A	S3-FW-190-H-018		see block 7	No
Aux Feedwater Line	Pullman Kellogg	N5: S3-1305-5	N/A	S3-1305-ML-223		see block 7	Yes
Support. Spring Can	Bechtel Power Corp.	N/A	N/A	S3-FW-223-H-001	_	Corrected	No

7. Description of Work:

The pipe support work in this scope was associated with the replacement of a segment of the feedwater line and replacement of the steam generator S31305ME089. The existing end plates (with snubber rear brackets left intact) were welded (NF welds) to the new dummy stubs of the replacement pipe spool on supports S3-FW-190-H-011, H-013 & H-014. No new materials were used. The snubbers on supports S3-FW-190-H-015 & H-018 were temporarily removed and then replaced after the replacement pipe was installed. The spring hanger supports S3-FW-190-H-016, H-017 and S3-FW-223-H-001 were blocked before removing the old pipe and unblocked/ adjusted after the replacement pipe was installed. Spring hanger S3-FW-190-H-012 was removed from the replaced pipe section and re-installed on the replacement pipe. VT-3 examinations were performed on all of the above supports after restoration.

N	ΛÍ	ec	
3 Y	v	CO	

- a). The following change notice was issued against WP&JR 25221-003-M0P-7058-00004-000: 25221-003-M0N-7058-00004.
- b). The welding NDE methodology/acceptance criteria for welds was NF-5000, 1995 Edition, 1996 Addenda per Relief ISI-3-14.

8. Tests Co	nducted:	Hydrostatic:	Pneumatic	e: Nomi	inal Operat	ing Pressu	re: Exemp	ot:	Other: X
		VT-3:	<u>X</u>	Pressure:	N/A	_psi	Test Temp:	N/A	•F

n .	Remarks:	Mana
9.	Remarks:	NONE.

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: Rager Allmed for ABMeichler Supervising ASME Code Engineer Date: 1/2-1/11

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 Oscillation to 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 NB6752 A. B. I. N. NS MN054531

(National Board, State, Province, and Endorsements)

Date 01/25/11

As Required by the Provisions of the ASME Code Section XI

128, San Cle y: Southern nut Grove A tem: 1301 (i	erating Station emente, CA 9267 California Edison venue, Rosemead, Main Steam Syste L-1473, Sh 1 (EC ode: ASME Secti	i Company , CA 91770 em) EN D002906	WP&IR: 25221-(Type Code Symb	003-M0I ol Stam	°-7059-00001-(
nut Grove Attem: 1301 (in S3-1301-M	venue, Rosemead, Main Steam Syste L-1473, Sh 1 (EC	, CA 91770 em) EN D002906	WP&IR: 25221-0 Type Code Symb Authorization No	ol Stam	p: N/A N/A	000
tem: 1301 (i : S3-1301-M	Main Steam Syste L-1473, Sh 1 (EC	em) EN D002906	WP&IR: 25221-0 Type Code Symb Authorization No	ol Stam	p: N/A N/A	000
struction C	·		8) Authorization No		N/A	
	ode: ASME Secti	ion III Class				
ion of Secti		, Oшьс	2, 1974 Edition, Summer 1	974 Ado	lenda [see note	(a)]
	on XI Utilized fo	r Repair/Re	eplacement Activity: 1995 l	Edition;	1996 Addenda	
ponents:				. ,	·	
lame of nufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	Stampe
			S3-1301-ML-1473		Installed	Yes/No No
lidated Pipe d Supply	Heat # 5094ANF	N/A	ILN 10000022507 (NC) 1998:Ed, 2000 Add SA-350 gr LF2 (note c)		Installed	No
se National gy Services	Heat # 86067 Trace # 36292	N/A	ILN 10000022330 (NC) 1998 Ed, 2000 Add		Installed	·No
erve Corp.	BH-540	N/A	S31301MU1495 ILN 10000012401 (NC) 1971 Ed, S'1973Add	2009	Installed	Yes
	nufacturer Ilidated Pipe d Supply se National gy Services erve Corp.	nufacturer Serial No. Solidated Pipe d Supply See National Heat # 86067 Trace # 36292 Services BH-540	nufacturer Serial No. Board No. Blidated Pipe d Supply Heat # 5094ANF N/A se National Heat # 86067 Trace # 36292 N/A erve Corp. BH-540 N/A	Serial No. Board No. Identification S3-1301-ML-1473 S3-1301-ML-1473 -	Serial No. Board No. Identification Built	Serial No. Board No. Identification Built Installed

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: Rogal Holmes for AB Merch/er Supervising ASME Code Engineer Date: 2/15/11 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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>O5-21-10</u> to <u>12-15-10</u>, 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.

	spection.	mai injury or property damage or a loss of any kind arising from or connected with
	\$.0. Run	Commissions NB12050 A, N, I CA1969
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date_	5-22-11	
_		

As Required by the Provisions of the ASME Code Section XI

	thern California Ed 44 Walnut Grove		1 <i>C</i> 'A 0177	Date: 12/12/201	0	,	Sheet 1 o
		·	1, CA 91//	Unit: 3			
	onofre Nuclear Ger D. Box 128, San Cl		2-0128	Repair/Replacer	neut Pla	n: 3-M0P-7059	9-1.2
3. Work Perform Address: 224	med by: Southern 14 Walnut Grove A	California Edison	Company	WO : 800460495			
	of System: 1301			WP&IR: 25221-	003 - M0F	P-7059-00002-0	000
); Dwg: S3-1301-N	-	·	Type Code Symb Authorization No Expiration Date:	-	p: N/A N/A N/A	
(b) Applicab	le Edition of Sect			s 2, 1974 Edition, Summer 1 eplacement Activity: 1995			
. Identification	of Components:	<u> </u>		1	7	Corrected,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	1	Year Built	Removed, or Installed	1
Stem Generator ME089 Recirc. Line	e.			S3-1301-ML-1476		Installed	No
Hvy Hex Nuts, 16 ca, 3/4"-10UNC (BOM item #7)		Heat # S68752	N/A	ILN 10000010838 (NC) 1974 Ed, S'1974 Add SA, 194 Gr 2H		Installed	No
Studs, 8 ea, 3/4"- OUNC, 5-1/2" Lg. (BOM item #6)	Nova Machine Products	Heat # 3001306	N/A	ILN 10000010838 (NC) 1974 Ed, S'1974 Add SA-194 Gr B7		Installed	No
3" 600# WNRF (BOM item #5)	Consolidated Pipe and Supply	Heat # 5094ANF	N/A	ILN 10000022507 (NC) 1998 Ed, 2000 Add SA-350 gr LF2 (note c)		Installed	No
3"NPS Sch 80 (BOM item #4)	Dubose National Energy Services	Heat # 86067 Trace # 36292	N/A	ILN 10000022330 (NC) 1998 Ed, 2000 Add SA-333 gr 6 (note b)		Installed	No
3" 600# Gate Mark # 129 (BOM item # 3)	Flowserve Corp.	BH-537	N/A	S31301MU1498 ILN 10000012401 (NC) 1971 Ed, S'1973Add SA-352 gr LCB	2009	Installed	Yes
lacement steam getes: a). The weld Relief Reque b). Reconcil	enerator (RSG) 3M ling NDE methodo	E089. The 3" pip logy and acceptan applies.	e welds "A'	fabricated and installed on a and "B" were performed. or all welds was NC-5000, 1			
tem Leakage Test	and VT-2 Exam co	onducted on NMO	800496189	O, Operation 0070			
		Pneumatic:					

Ω	D	1	3 f
У.	Rema	II KS:	None

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: Kegat Holm of ABMeichler Supervising ASME Code Engineer Date: 2/15/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>O5-21-10</u> to <u>12-13-10</u>, 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.

THIS INC	#.0. Qui	Commissions NB12050 A, N, I CA1969
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	3-22-11	

As Required by the Provisions of the ASME Code Section XI

1. Ow	ner: Southe	ern California Ediso	n Company		Date: 1/11/20			Sheet 1 of
A(10	aress: 2244	Walnut Grove Ave	nue, Rosemead,	CA 91770	Unit: 3			
		fre Nuclear Genera Box 128, San Cleme		-0128	Repair/R-v!a	cement Pl	ans: 3-M0P-706	52-9 Rev 1
		d by: Southern Ca Walnut Grove Aver			WO: 8004612	27		
		System: N/A			NECP: 80007.	2644		
Dwgs:	SO23-508-	16-18; 56855 Sh 1,	ECN D0027187	' (loose part	WP&IR: 2522 WCN 25221-0		P-7062-00009-0 062-00009	& 000
	SO23-617-1	5-2, ECN D003833 1-D1499, ECN D00 1-D1493, ECN D00	44426 (3ME088	3 as-built)	Type Code Sy Authorization Expiration Da	No:	np: N/A N/A N/A	
i. (a)	Applicable	Construction Cod	e: ASME Section	n III Class	1, 1998 Edition, 2000 A	ddenda		
							1006 + 11 - 1	
(b)	Applicable	Edition of Section	XI Utilized for	Repair/Rep	olacement Activity: 19	95 Edition	1996 Addenda	
Ident	ification of	Components:		T				1 400 00
	me of	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
Ger	ment Steam nerator	Mitsubishi Heavy Industries	B-SGP-113	5865	S31301ME088 RSO-0018-10	2010	see block 7	Yes
-	ment Steam nerator	Mitsubishi Heavy Industries	B-SGP-112	5864	S31301ME089 RSO-0018-10	2010	see block 7	Yes
ensors (2 epair/Reensors we steners. ME088, NE1206	2 places per leplacement Avere mounted temperature and 3NE120 temperature	RSG) in conjunction Activity included drawith 4 each #10-32 sensors 3TE1126A or (approximately 1 sensors 3TE1116A	n with installation illing/tapping int PUNF fasteners and tubeshed 80° apart on low	on of new rep to the vessel and the loose et), 3TE112 wer support set), 3TE1116	part monitor sensors (2 polacement steam general shell and skirt to mount part monitors were most before the bundle), skirt). Explicit locations skirt). Explicit locations skirt). Explicit locations	tors. The Antherstone the sensor punted with loose part s shown on loose part	ASME XI rs. The tempera 5 each #10-320 monitor sensors referenced as-b monitor sensors	ture JNF s ouilt dwgs.
Tests (Conducted:	Hydrostatic: l	Pneumatic:	Nominal C	perating Pressure:	Exemp	t: Other:_	

8.

NOTE:

FORM NIS-2 (back)

9. Remarks:
(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 Adomes for AB Meichler Supervising ASME Code Engineer Date: VII/II 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 Minnesota and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period $OS/28/O$ to $OI/12/II$, 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.
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Commissions NB6752 A, B, I, N, NS MN054531 Inspector's Signature (National Board, State, Province, and Endorsements)
Date 01/12/11

As Required by the Provisions of the ASME Code Section XI

	ern California Edi 4 Walnut Grove A	son Company venuc, Rosemead, CA	91770	Date: 1/18/2011		1.	Sheet 1
		,		Unit: 3			
2. Plant: San On Address: P.O.		rating Station nente, CA 92672-0128	}	Repair/Replacement F	Plans: 3	-M0P-7063-	l
		California Edison Comp Avenue, Rosemead, CA		WO: 800461229			
				WP&IR: 25221-003-M	0P-706	3-00001-000	[note(a
4. Identification o	f System: N/A (St	eam Generator Support)	m - C-1 C-1 10:	3.1	, ,	
		& D0044452); Dwg: S0 I (ECN D0041125) & S		Type Code Symbol Sta Authorization No: Expiration Date:	mp: 14. N/	A	
5. (a) Applicable	Construction Co	de: ASME Section III,	NF (Class 1), 1974 Edition, Summer	1974 A	ddenda [note	e (b)]
						-	
(b) Applicable	Edition of Section	n XI Utilized for Repa	ir/Replacen	nent Activity: 1995 Edit	ion; 199	06 Addenda	
. Identification of	Components:						
			T		T	Corrected,	ASM
Name of	Name of	Manufacturer	National	Other	Year	1	Stamp
Component	Manufacturer	Serial No.	Board No			or Installed	
Replacement Steam Generator	Mitsubishi Heavy Industries	B-SGP-113	5865	S31301ME088	2010	see block 7	Y'es
Steam Generator Sliding Base Support	Combustion Engineering	N/A	N/A	lower support for RSG S31301ME088		see block 7	No
Studs. 15 each	Nova Machine Products	Heat#5070686A4435 Trace 2W58	N/A	ILN 10000009056 SA-540 gr B23 Class I		Installed	No
Studs. 24 each	Nova Machine Products	Heat # 8091264 Trace 4E88	N/A	ILN 10000023611 SA-540 gr B23 Class 1		Installed	No
Nuts, 25 each	Nova Machine Products	Heat#7568273A4936 Trace 2W62	N/A	ILN 10000008140 SA-540 gr B23 Class I		Installed	No
Nuts. 8 each	Nova Machine Products	Heat# 8093750 Trace 4E68	N/A	ILN 10000023610 SA-540 gr B23 Class J NN 201262794 (note c)		Installed	No
Nuts, 3 each	Nova Machine Products	Heat# 91249 Trace 5E64	N/A	ILN 10000031206 SA-540 gr B23 Class I		Installed	No
ds were omitted from due to field problen sed and 37 new studs long and nuts were uplete assembly. es: a). The following b). The vessel of	n hole #9 and #21 is getting the repla is were used. Two of heavy hex, 2-1/4-1 ing change notices were construction code w	due to hole misalignme cement bolting installed existing nuts were reuse 6UN-2B, 3-1/4" thick. were issued against the vas ASME III. NB, 199	nt between s d. The as-le ed and 36 ne A VT-3 ex WP&IR: 25 8 Edition, 2	ng base were abandoned kirt/base and studs were ft condition is as follows were used. Studs amination was performed 5221-003-M0N-7063-000 Addenda; the supportement of NF-2333-1. A	omitted: One endered 2- I on the OOI & I	on hole #12 xisting stud v -1/4-16UN-2 support afte 0001 s an "NF" ito	and vas A, 17- r

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

4BMerch/esupervising ASME Code Engineer Date: 1/19/11

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 Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period os/25/10 to o1/20/11, 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.

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Commissions NB6752 A, B, I, N, NS MN054531

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

ĺ

2. Plant: San One		venue, Rosemead, CA 9		Unit: 3			
		ating Station nente, CA 92672-0128		Repair/Replacement P	lans: 3	-M0P-7063-:	3
3. Work Performand Address: 22-	ed by: Southern C 44 Walnut Grove A	California Edison Compa Venue, Rosemead, CA	any 91770	WO: 800461231			
		eam Generator Support)		WP&IR: 25221-003-M	0P-706:	3-00003-000)
4. Identification 0.	i System: N/A (Ste	eam Generator Support)		Type Code Symbol Stai	mp: N/	/A	
		2 D0044452); Dwg: S0:		Authorization No:	N/	A	
ECN D0044452), S E-D9	8023-617-1-D1501	(ECN D0041125) & So	D23-617- I	Expiration Date:	N/.	A	
Identification of	Components:		T		T	Corrected.	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed.	Stamped
Component	Manufacturer	Serial No.	Board No.	Identification	<u> </u>	or Installed	
Leplacement Steam Generator	Mitsubishi Heavy Industries	B-SGP-112	5864	S31301ME089 *	2010	see block 7	Y'es
	Combustion	N/A	N/A	lower support for RSG S31301ME089		see block 7	No
Steam Generator liding Base Support	Engineering				 		
Steam Generator	1 1	Heat#5070686A4435 Trace 2W58	N/A	ILN 10000009056 SA-540 gr B23 Class I		Installed	No
Steam Generator liding Base Support	Engineering Nova Machine		N/A N/A	ILN 10000009056		Installed Installed	No No
Steam Generator Hiding Base Support Studs, 17 each	Engineering Nova Machine Products Nova Machine	Trace 2W58 Heat # 8091264	N/A N/A	ILN 1000009056 SA-540 gr B23 Class I ILN 10000023611			
Steam Generator Sliding Base Support Studs, 17 each Studs, 4 each Nuts. 25 each	Engineering Nova Machine Products Nova Machine Products Nova Machine Products ** ** ** ** ** ** ** ** ** *	Trace 2W58 Heat # 8091264	N/A N/A existing stud	ILN 1000009056 SA-540 gr B23 Class I ILN 10000023611 SA-540 gr B23 Class I ILN 10000023610 SA-540 gr B23 Class I NN 201262795 (note b) is were reused and 21 ne	 w studs	Installed Installed were used.	No No
Steam Generator Gliding Base Support Studs, 17 each Studs, 4 each Nuts. 25 each Description of Worsting nuts were reuse	Engineering Nova Machine Products Nova Machine Products Nova Machine Products **Nova Machine Products ***********************************	Trace 2W58 Heat # 8091264 Trace 4E88 Heat# 8093750 Trace 4E68 dition is as follows: 21 were used. Studs were	N/A N/A existing stuce: 2-1/4-16UN	ILN 1000009056 SA-540 gr B23 Class I ILN 10000023611 SA-540 gr B23 Class I ILN 10000023610 SA-540 gr B23 Class I NN 201262795 (note b)	 w studs	Installed Installed were used.	No No
Steam Generator Sliding Base Support Studs, 17 each Studs, 4 each Nuts. 25 each Description of Worsting nuts were reuse IN-2B, 3-1/4" thick.	Engineering Nova Machine Products Nova Machine Products Nova Machine Products *K: The as-left coned and 25 new nuts A VT-3 examinat	Trace 2W58 Heat # 8091264 Trace 4E88 Heat# 8093750 Trace 4E68 dition is as follows: 21 were used. Studs were tion was performed on the state of t	N/A N/A existing stude 2-1/4-16UN the support a	ILN 1000009056 SA-540 gr B23 Class I ILN 10000023611 SA-540 gr B23 Class I ILN 10000023610 SA-540 gr B23 Class I NN 201262795 (note b) is were reused and 21 ne N-2A, 17-3/4" long and n	w studs	Installed Installed were used. e heavy hex.	No No

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 Code Engineer Date: 1/19///
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 Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period o5/25/10 to o1/20/11, 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.

Tollake Con

Commissions NB6752 A. B. I. N. NS MN054531

(National Board, State, Province, and Endorsements)

Date 01/20/11

As Required by the Provisions of the ASME Code Section XI

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda Identification of Components: Name of Name of Manufacturer National Other Year Removed, or Code Component Manufacturer Serial No. Board No. Identification Built Installed Stamped	73001 Coo, 2240		on Company	CA 01770	Date: 1/11/2011			Sheet I of
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plans: 3-MOP-7063-2 3. Work Performed by: Southern California Edison Company Address: 2244 Wahnut Grove Avenue, Rosemead, CA 91770 NECP: 800072652, ASC D0028797 & D0037486 4. Identification of System: 1201 (Reactor Coolant System) WP&IR: 25221-003-MOP-7063-00002-000 Dwgs: SO23-617-1-D893 SO23-915-45 (ECNs A51481 & PIC D0031128) SO23-917-1, sh 1 (ECN D0028744) Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A Authorization Date: N/A 5. (a) Applicable Construction Code: ASME Section III, Class 1, 1998 Edition, 2000 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda I. Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Stamper Yes/No Replacement Steam Mitsubishi Heavy B-SGP-113 5865 S31301ME088 RSO-0018-10 Generator Industries Mitsubishi Heavy B-SGP-113 5865 S31301ME088 2010 Installed Yes Support Lug Support Shubber SIRCE88H001 see block 7 No Support Lug Support Lug Support Shubber SIRCE88H001 see block 7 No Support Lug Support Lug Support Shubber SIRCE88H001 see block 7 No Support Lug Support Lug Support Shubber SIRCE88H002 see block 7 No Support Lug Support Support Support Shubber SIRCE88H002 see block 7 No Support Lug Support Support Shubber SIRCE88H002 see block 7 No Support Lug Support Support Shubber SIRCE88H002 see block 7 No Support Lug Support Shubber SIRCE88H002 see block 7 No Support Lug Support Shubber SIRCE88H002 see block 7 No Support Lug Support Shubber SIRCE88H002 see block 7 No Support Lug Support Shubber SIRCE88H002 see block 7 No Support Support Shubber SIRCE88H002 see block 7 No Support Support Shubber SIRCE88H002 see block 7 No Support Shubber SIRCE88H004 see block 7 No Support	0 m / 0 0		,	CN 91//0	Unit: 3			
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 NECP: 800072652, ASC D0028797 & D0037486 4. Identification of System: 1201 (Reactor Coolant System) WP&IR: 25221-003-M0P-7063-00002-000 Dwgs: SO23-617-1-D893 SO23-915-45 (ECNs A51481 & PIC D0031128) SO23-917-I, sh 1 (ECN D0028744) Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A 5. (a) Applicable Construction Code: ASME Section III, Class 1, 1998 Edition, 2000 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda Identification of Components: Name of Name of Manufacturer National Other Year Removed, or Code Stamped Yes/No. Replacement Steam Mitsubishi Heavy B-SGP-113 5865 S31301ME088 2010 Installed Stamped Yes/No. Upper Snubber Industries RSO-0018-10 Upper Snubber SancessH001 Section No. Support Lug Snubber S3RCE88H001 Section No. Support Lug Snubber S3RCE88H002 Section No. Description of Work: The replacement steam generator upper support snubber lugs, welded to the vessel, were supplied ithout the support load pin holes because the pin hole locations had to be determined by the field after the vessel was set. Once locations were determined, the holes were bored in the lugs. The new material surfaces created by the machining were PT amined. A VT-3 examination was performed on both supports after the supports were completely assembled. No replacement			_	-0128	Repair/Replace	ment Pla	ans: 3-M0P-706	53-2
NECP: 800072652, ASC D0028797 & D0037486 4. Identification of System: 1201 (Reactor Coolant System) WP&IR: 25221-003-M0P-7063-00002-000 Dwgs: SO23-617-1-D893 SO23-915-45 (ECNs A51481 & PIC D0031128) SO23-917-1, sh 1 (ECN D0028744) Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A 5. (a) Applicable Construction Code: ASME Section III, Class 1, 1998 Edition, 2000 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Stamper Yes/No Replacement Steam Mitsubishi Heavy B-SGP-113 5865 S31301ME088 2010 Installed Yes/No Support Lug Support Lug Support Subber S3RCE88H001 Section No. East 270° location Upper Snubber Support Lug Support Lug No. Snubber S3RCE88H002 Support Lug Support Lug West, 90° location Description of Work: The replacement steam generator upper support snubber lugs, welded to the vessel, were supplied ithout the support load pin holes because the pin hole locations had to be determined by the field after the vessel was set. Once to locations were determined, the holes were bored in the lugs. The new material surfaces created by the machining were PT amined. A VT-3 examination was performed on both supports after the supports were completely assembled. No replacement					WO: 800461232			
Dwgs: SO23-617-1-D893 SO23-915-45 (ECNs A51481 & PIC D0031128) SO23-917-1, sh 1 (ECN D0028744) Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A 5. (a) Applicable Construction Code: ASME Section III, Class 1, 1998 Edition, 2000 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Stamper Yes/No Replacement Steam Generator Industries RSO-0018-10 Upper Snubber N/A Snubber 33RCE88H001 see block 7 No Support Lug N/A Snubber 33RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No Support Lug N/A Snubber S3RCE88H002 see block 7 No			,		NECP : 8000726	52, ASC	D0028797 & I	00037486
SO23-915-45 (ECNs A51481 & PIC D0031128) SO23-917-1, sh 1 (ECN D0028744) Authorization No: Expiration Date: N/A Authorization No: N/A N/A Supplicable Construction Code: ASME Section III, Class 1, 1998 Edition, 2000 Addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda Identification of Components: Name of Name of Manufacturer National Other Year Removed, or Code Stamper Component Mitsubishi Heavy B-SGP-113 5865 S31301ME088 2010 Installed Stamper Yes/No Replacement Steam Mitsubishi Heavy Industries Name Support Lug Support Lug Support Lug Satisfied Satisfied Satisfied Support Lug Support Support Support Lug Support Lug Support Lug Support Lug Support Lug Support Support Support Support Support Lug Support Lug Support Lug Support Supp			ĺ	,	WP&IR: 25221-	003-M0	P-7063-00002-0	000
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Stamped Yes/No Replacement Steam Mitsubishi Heavy Industries B-SGP-113 S865 S31301ME088 2010 Installed Yes Generator Industries RSO-0018-10 Upper Snubber Sarces Sarc	SO23-915	-45 (ECNs A51481		8)	Authorization N	0:	N/A	
Name of Name of Manufacturer National Other Serial No. Replacement Steam Mitsubishi Heavy Industries Industries Namber Support Lug Pes No.	5. (a) Applicable	e Construction Cod	le: ASME Section	on III, Class	1, 1998 Edition, 2000 Add	lenda		
Name of Component Name of Manufacturer Serial No. Serial No. Identification Built Removed, or Code Stamped Yes/No Replacement Steam Generator Industries RSO-018-10 Installed Yes Pes Industries RSO-018-10 Installed Support Lug Support Sance	(b) Applicable	Edition of Section	XI Utilized for	Repair/Re	placement Activity: 1995	Edition;	; 1996 Addenda	
Name of Component Name of Manufacturer Serial No. Board No. Identification Built Installed Stamped Yes/No Replacement Steam Generator Industries B-SGP-113 5865 S31301ME088 RSO-0018-10 Installed Yes Support Lug No. Support Lug No. No. Support Snubber Sarces S	. Identification of	Components:	p					
Component Manufacturer Serial No. Board No. Identification Built Installed Stamped Yes/No Replacement Steam Generator Built Installed Stamped Generator Industries B-SGP-113 5865 S31301ME088 2010 Installed Yes RSO-0018-10 Upper Snubber Support Lug Support Lug Support Lug Support Lug Support Snubber S3RCE88H001 Support Lug Support Lug Support Snubber S3RCE88H002 See block 7 No Support Lug Support Snubber Sance S	Name of	Name of	Manufacturer	National	Other	Vear		1
Generator Industries RSO-0018-10 Upper Snubber Support Lug N/A Snubber S3RCE88H002 see block 7 No West, 90° location Description of Work: The replacement steam generator upper support snubber lugs, welded to the vessel, were supplied thout the support load pin holes because the pin hole locations had to be determined by the field after the vessel was set. Once to locations were determined, the holes were bored in the lugs. The new material surfaces created by the machining were PT aamined. A VT-3 examination was performed on both supports after the supports were completely assembled. No replacement			ļ	1		1	1	Stamped Yes/No
Support Lug Upper Snubber Support Lug N/A Snubber S3RCE88H002 Support Lug No West, 90° location Description of Work: The replacement steam generator upper support snubber lugs, welded to the vessel, were supplied ithout the support load pin holes because the pin hole locations had to be determined by the field after the vessel was set. Once the locations were determined, the holes were bored in the lugs. The new material surfaces created by the machining were PT amined. A VT-3 examination was performed on both supports after the supports were completely assembled. No replacement			B-SGP-113	5865		2010	Installed	Yes
Support Lug West, 90° location Description of Work: The replacement steam generator upper support snubber lugs, welded to the vessel, were supplied ithout the support load pin holes because the pin hole locations had to be determined by the field after the vessel was set. Once e locations were determined, the holes were bored in the lugs. The new material surfaces created by the machining were PT amined. A VT-3 examination was performed on both supports after the supports were completely assembled. No replacement	• •			N/A			see block 7	No
ithout the support load pin holes because the pin hole locations had to be determined by the field after the vessel was set. Once e locations were determined, the holes were bored in the lugs. The new material surfaces created by the machining were PT amined. A VT-3 examination was performed on both supports after the supports were completely assembled. No replacement				N/A			see block 7	No
	Upper Snubber			· · · · · · · · · · · · · · · · · · ·		L		
	Upper Snubber Support Lug Description of W ithout the support to e locations were de amined. A VT-3 e.	oad pin holes becaus termined, the holes v xamination was perf	e the pin hole lo vere bored in the ormed on both s	cations had lugs. The	pport snubber lugs, welded to be determined by the fie new material surfaces crea	ld after ted by th	the vessel was s se machining we	et. Once ere PT
	Upper Snubber Support Lug Description of W ithout the support to e locations were de amined. A VT-3 e.	oad pin holes becaus termined, the holes v xamination was perf	e the pin hole lo vere bored in the ormed on both s	cations had lugs. The	pport snubber lugs, welded to be determined by the fie new material surfaces crea	ld after ted by th	the vessel was s se machining we	et. Once ere PT
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	Upper Snubber Support Lug Description of W ithout the support to the locations were description A VT-3 e.	oad pin holes becaus termined, the holes v xamination was perf	e the pin hole lo vere bored in the ormed on both s	cations had lugs. The	pport snubber lugs, welded to be determined by the fie new material surfaces crea	ld after ted by th	the vessel was s se machining we	et. Once ere PT
	Upper Snubber Support Lug Description of W ithout the support to e locations were de camined. A VT-3 e.	oad pin holes becaus termined, the holes v xamination was perf	e the pin hole lo vere bored in the ormed on both s	cations had lugs. The	pport snubber lugs, welded to be determined by the fie new material surfaces crea	ld after ted by th	the vessel was s se machining we	et. Once ere PT
Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: Exempt: Other:	Upper Snubber Support Lug Description of W ithout the support le e locations were de camined. A VT-3 e aterials were installe	oad pin holes becaus termined, the holes of xamination was perf ed in this work scope	e the pin hole lo vere bored in the ormed on both si e.	cations had e lugs. The upports afte	pport snubber lugs, welded to be determined by the fie new material surfaces crea r the supports were comple	eld after ted by th tely asso	the vessel was s the machining we embled. No rep	et. Once ere PT lacement

8.

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: Keyu Holmus for ABMachler Supervising ASME Code Engineer Date: 1/11/11

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 Minnesota and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period OSAI/O to OI/A/II, 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.

- KBlake	Commissions NB6752 A. B. I. N. NS MN054531
Inspector's Signature	(National Board, State, Province, and Endorsements)
Date 01/12/11	

As Required by the Provisions of the ASME Code Section XI

1

1. Owner: Southe			OA 01270	Date: 1/11/2011		Š	Sheet 1 of
	Walnut Grove Ave	·	CA 91770	Unit: 3			
2. Plant: San Ono Address: P.O. l	fre Nuclear Genera Box 128, San Cleme		-0128	Repair/Replacer	nent Pla	ıns: 3-M0P-706	3-4
3. Work Performe Address: 2244	ed by: Southern Ca Walnut Grove Aver			WO: 800461233			
		•		NECP: 8000726.	52, ASC	D0028797 & D	0037486
4. Identification of	•	actor Coolant Sy	rstem)	WP&IR: 25221-	003-M0	P-7063-00004-0	000
	1-D892 45 (ECNs A51481 1, sh 1 (ECN D002)		8)	Type Code Symb Authorization No Expiration Date:	o:	p: N/A N/A N/A	
5. (a) Applicable	Construction Cod	e: ASME Section	n III, Class	1, 1998 Edition, 2000 Add	lenda		
(b) Applicable6. Identification of		XI Utilized for	Repair/Re	placement Activity: 1995	Edition;	1996 Addenda	
6. Identification of	Components.			T	T	Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped Yes/No
Replacement Steam Generator	Mitsubishi Heavy Industries	B-SGP-112	5864	S31301ME089 RSO-0018-10	2010	Installed	Yes
Upper Snubber Support Lug		~	N/A	Snubber S3RCE89H001 East 90° location		see block 7	No
Upper Snubber Support Lug	_		N/A	Snubber S3RCE89H002 West, 270° location		see block 7	No
without the support lo	ermined, the holes camination was perf	se the pin hole lo were bored in the formed on both s	cations had e lugs. The	pport snubber lugs, welded to be determined by the fie new material surfaces crea or the supports were comple	eld after ted by th	the vessel was s ie machining we	et. Once ere PT
8. Tests Conducted:	Hydrostatic:	Pneumatic:	Nominal (Operating Pressure:	Exempt	Other:_	
No pressure t	esting is required fo	r this scope	Pressu	re: <u>N/A</u> psi Test T	emp:	N/A°F	

8.

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: Degles Holle of AB Merch/Expervising ASME Code Engineer Date: 1/1///
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 Minnesota and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period os/24/10 to o1/12/11, 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.

K&Blake	Commissions NB6752 A. B. I. N. NS MN054531
Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	

As Required by the Provisions of the ASME Code Section XI

Unit: 3

I. Owner: Southern California Edison Company	Date: 1/1/2011
1. Other, bounder Camolina Edison Combany	Date: 1/3/2011

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Work Performed by: Southern California Edison Company WO: 800461242, 800461243

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

4. Identification of System: 1201 (Reactor Coolant System)

Dwgs: NCEP 800072652, ASC D0028797 & D0037486 S3-1201-ML-002, Sh 1 (ECN D0028785); S3-1201-ML-004, Sh 1 (ECN D0028787); S3-1201-ML-006, Sh 1 (ECN D0028788); 48001, Sh 1(ECN D0042085); 48001 Sh 2(ECN D0028777); 48001, Sh 3(ECN D0042084) WP&IR: 25221-003-M0P-7064-00003-001 &

11

Repair/Replacement Plans: 3-M0P-7064-3, Rev 1

Sheet 1 of 1

WCN 25221-003-M0N-7064-00003
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1998 Edition, 2000 Addenda [see note (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
Existing Steam Generator	Combustion Engr.	72270-2	22265	S3-1301-ME-088	1977	Removed	Yes
Replacement Steam Generator	Mitsubishi Heavy Industries	B-SGP-113	5865	RSO-0018-10	2010	Installed	Yes
Ф42"-Hotleg	Combustion Engr.	503-03/717-05	N/A .	S3=1201-ML-002	1.9.77.&. 1981	see block 7	Yes
Ф30" Coldleg, RCP P004	Combustion Engr.	504-06-4	N/A	S3-1201-ML-004	1977	see block 7	Yes
Φ30" Coldleg, RCP P002	Combustion Engr.	504-06-3	N/A	S3-1201-ML-006	1978	see block 7	Yes

^{7.} **Description of Work:** The existing steam generator was replaced. The Code Class 1 connecting piping listed above in block 6 was welded to the nozzles of the replacement vessel. The construction code NDE included surface exams of the weld preps, surface exams of final welds and RT of final welds. The final weld NDE was performed after PWHT with the exception of the carbon steel groove weld and cladding covering this weld on the ID which was performed separately before PWHT. The thermocouple removal areas were examined by MT. The Preservice Examinations performed on the welds are summarized below.

Preservice Examinations Performed:

- Fab Weld ID "C" (ML-002 hotleg), ISI Number 03-007-001 (volumetric)
- Fab Weld ID "E" (ML-004 coldleg), ISI Number 03-014-017 (volumetric)
- Fab Weld ID "E" (ML-006 coldleg), ISI Number 03-012-017 (volumetric)
- VT-3 Examinations performed on the vessel supports are documented on separate NIS-2's

Note: a). Reactor Coolant Pipe construction code edition is 1971 Edition, Summer 1972 Addenda. The vessel code was used for the vessel/pipe welds. The welding NDE methodology and acceptance criteria for the all welds was NB-5000, 1995 Edition, 1996 Addenda per Relief Request ISI-3-14.

System Leakage Test was conducted per procedure SO23-XVII-3.1.1 (signed by ANII on 2/11/2011)

8.	Tests Conducted:	Hydrostatic:	Pneumatic:	Nominal (Operatin	g Pressi	ure: <u>X</u>	Exempt:	Other:_	
				Pressu	re: 22	50 p	sia	Test Temp:_	≥280	_°F

^	.	
9.	Remark	s. Mone

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: Rober Stolmes For AB Meichler Supervising ASME Code Engineer Date: 3/7/2011

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 <u>California</u> and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period 9-3-10 to 0:-5-11 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 NB12050 A, N, I CA1969
(National Board, State, Province, and Endorsements)

Date 5-22-11

	thern California Ec 44 Walnut Grove A		a ሮል 9177		2/31/2010)	Sheet 1 or
			d, CA 2177	Unit: 3			
	nofre Nuclear Gen D. Box 128, San Cl		72-0128	Repair	Replacen	ient Plans: 3-M0	P-7064-4, Rev
3. Work Perfor Address: 224	med by: Southern 14 Walnut Grove A	California Edisor venue, Rosemead	n Company I, CA 91770		0461245		
4. Identification	of System: 1201 (Reactor Coolant	System)	XX //h 0 xm	0.5001.0	02 3 600 7074 00	004.001.0
S3-1201-ML-001, D0028786); S3-12 D0042085); 4800	201-ML-005, Sh 1 (I Sh 2(ECN D0028	784); S3-1201-M ECN D0028789) 777); 48001, Sh	1L-003, Sh); 48001, Sh 3(ECN D00	WCN 25 I (ECN Type Co 1 (ECN Authoriz 42084) Expiration	221-003-1 de Symbo ation No: on Date:	N/A	
	le Edition of Section			es 1, 1998 Edition, 2			
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
Existing Steam Generator	Combustion Engr.	72270-1	22264	S3-1301-ME-089	1977	Removed	Yes
Replacement Steam Generator	Mitsubishi Heavy Industries	B-SGP-112	5864	RSO-0018-10	2010	Installed	Yes
Ф42". Hotleg	Combustion Engr.	503-0.1/7.17-01.	N/A	S3-1201-ML-001	.19.77 & 1981	see block 7	. Yes .
₱30" Coldleg, RCP P001	Combustion Engr.	504-06-2	N/A	S3-1201-ML-003	1977	see block 7	Yes
Þ30" Coldleg, RCP P003	Combustion Engr.	504-06-1	N/A	S3-1201-ML-005	1978	see block 7	Yes
was welded to the r rface exams of fina rbon steel groove v	nozzles of the repla al welds and RT of weld and cladding c al areas were exami	cement vessel. T final welds. The overing this weld	The construction final weld? If on the ID is	d. The Code Class I tion code NDE incl NDE was performed which was performe Examinations perfo	uded surfa after PW d separate	nce exams of the v HT with the exceptly before PWHT.	veld preps, ption of the The
Fab Weld II Fab Weld II	O "C" (ML-001 hoth O "E" (ML-003 cold O "E" (ML-005 cold nations performed o	lleg), ISI Numbe lleg), ISI Numbe	r 03-010-01 r 03-008-01	7 (volumetric)	te NIS-2's		
te: a). Reactor C	/pipe welds. The w	nction code edition welding NDE met of Request ISI-3-	thodology a	dition, Summer 197 nd acceptance criter	2 Addend ia for the a	la. The vessel coo all welds was NB-	le was used -5000, 1995
for the vessel Edition, 1996	, , , , , , , , , , , , , , , , , , ,						
Edition, 1996		procedure SO23-	XVII-3.1.1	(signed by ANII on	2/11/201	1)	

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: And Signed: Supervising ASME Code Engineer Date: 3/7/2011

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 <u>California</u> and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>A-03-10</u> to <u>OI-03-11</u> 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	NB12050 A, N, I	
Date	3.22-11		(National Board, State,	Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 2. Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: 3-M0P-7065-2 3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 WP&IR: 25221-003-M0P-7065-00002-000 4. Identification of System: 1301 (Main Steam System) NECP 040901164-39, ASC D0037076, PIC D0039924 NECP 040901164-39, ASC D0037076, PIC D0039924 Saliani-ML-015, Sh 1, ECNs A47702, D0042697 & PIC D0041642 Saliani-ML-015, Sh 1, ECNs A47702, D0042697 & PIC D0041642 (b) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda [see note (a)] (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built or Installed Yes 4"NPS & 3NPS Blowdown Line and Bechtel 4" x3" BW Swage (BOM item #25) Supply Co. Heat Code 5019/ANC SA-254 gr WP22 3", Mark 129 Gate Vv Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Yer replacement for above (BOM item #35) 3"NPS, Sch 80 Pipe, DuBose National Heat # 00A071963 N/A ILN 10000023627 (NC) Installed No. SA-335 gr P22 No. Bitton 10000023627 (NC) Installed No. SA-335 gr P22							=======	
Currected, ASI Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 5. Identification of Components: Name of Component Manufacturer Serial No. A"NPS & 3NPS Pullman Kellogs NS: S3-1301-1 N/A S3-1301-ML-015 Blowdown Line and Becket Med No. Heat F0788 N/A S1301-ML-015 Pleated Blowdown Line and Becket Med No. Heat Code 5019ANC S6-83-239 Pleat Code 5019ANC S6-83-239 Pleat Code 5019ANC S6-83-239 Pleat Code 5019ANC S6-83-239 Pleated Pleated Flowerpe Blit539 N/A S3-1301-ML-015 Pleated Flowerpe Blit539 N/A S3-1301-MU-013 1976 Removed, Pleated Flowerpe Blit539 N/A S3-1301-MU-013 1976 Removed Pleated Process Corp. Blit539 N/A S3-1301-MU-013 1976 Removed Pleated Process Corp. Blit539 N/A S3-335 gr P20 S3-335 gr P20 S3-335 gr P20 S3-335 gr P20 S4-335 gr P20				01220	Date: 1/13/2011		Ş	Sheet 1 o
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: 3-MOP-7065-2 3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 4. Identification of System: 1301 (Main Steam System) NECP 040901164-39, ASC D0037076, PIC D0039924 S3-1301-ML-015, Sh 1, ECNs A47702, D0042697 & PIC D0041642 S5. (a) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda [see note (a)] (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 5. Identification of Components: Name of Name of Manufacturer National Other Serial No. Identification Built or Installed Year Manufacturer Serial No. Identification Built or Installed Year Installed Ye		Unit: 3	Unit: 3					
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 4. Identification of System: 1301 (Main Steam System) 4. Identification of System: 1301 (Main Steam System) NECP 040901164-39, ASC D0037076, PIC D0039924 Authorization No: N/A S3-1301-ML-015, Sh 1, ECNs A47702, D0042697 & PIC D0041642 Stephicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda [see note (a)] (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 5. Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built or Component Manufacturer Serial No. Board No. Identification Built or Installed West Blowdown Line Angle Pulman Kellogg N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Blowdown Line Angle Pulman Kellogg N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Blowdown Line Heat F0788 N/A ILN 10000024667 (NC) — Installed New Manufacturer Serial No. S4-284 gr WP22 3", Mark 129 Gate Vv Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Yes Plowserve BH539 N/A S31301MU013 1976 Removed Yes Plowserve BH539 N/A S31301MU013 1976 Removed Yes Cach, 3"NPS S0-8 80 Energy Services BH539 N/A ILN 10000023627 (NC) — Installed No. Board No. Burgy Services BH539 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services BH539 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services Seed, 3"NPS S0-8 80 Energy Services BH549 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services BH549 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services BH549 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services BH549 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services BH549 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services BH549 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services BH549 N/A ILN 10000024168 (NC) — Installed No. SA-234 gr WP22 Services BH549 N/A ILN 100000024168 (NC) — Installed No. SA-234 gr WP22 Services BH549 N/A ILN 10000024168 (NC) — I				3	Repair/Replacement	Plan:	3-M0P-7065	5-2
4. Identification of System: 1301 (Main Steam System) NECP 040901164-39, ASC D0037076, PIC D0039924 NECP 040901164-39, ASC D0037076, PIC D0039924 S3-1301-ML-015, Sh I, ECNs A47702, D0042697 & PIC D0041642 S(a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda [see note (a)] (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 5. Identification of Components: Name of Name of Name of Serial No. Board No. Identification Built or Serial No. Board No. Identification Built or State Pullman Kellogg N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes 4 "NPS & 3NPS Pullman Kellogg N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes 4 "NPS & Wage (BOM item #25) Supply Co. 3", Mark 129 Gate Vv AchorDarling 2N694 N/A S31301MU013 1976 Removed Peplacement for above (BOM item #35) 3 "NPS, Sch 80 Pipe, (BOM item #24) Energy Services BH539 N/A ILIN 10000024667 (NC) Installed New (BOM item #34) 6 Each, 3 "NPS & 80 Pipe, (BOM item #24) Energy Services BH539 N/A ILIN 10000023627 (NC) Installed No Sach, 3"NPS Sch 80 Pipe, (BOM item #24) Energy services BH539 N/A ILIN 10000023627 (NC) Installed No Sach, 3"NPS & 80 Pipe, (BOM item #24) Energy services BH539 N/A ILIN 100000236168 (NC) Energy Services Corp. (BOM item #24) Energy and Heat# M8456 N/A ILIN 100000236168 (NC) Energy Services Corp. (BOM items #26) Energy and Heat# M8456 N/A ILIN 100000236168 (NC) Energy Services Corp. (BOM items #26) Energy and Heat# M8456 N/A ILIN 10000024168 (NC) Energy Services Corp. (BOM items #26) Energy and Process Corp. (CM", "CN", "CN", "CP", "CQ", "CR", "CS", "CT", "CU", "CV",					WO : 800461250			
Type Code Symbol Stamp: N/A Authorization No: N/A S3-1301-ML-015, Sh 1, ECNs A47702, D0042697 & PIC D0041642 Expiration Date: N/A Authorization No: N/A S3-1301-ML-015, Sh 1, ECNs A47702, D0042697 & PIC D0041642 Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Expiration Date: N/A Authorization No: N/A Authorization Date: N/A Expiration Date: N/A Authorization No: N/A Authorization Date: N/A Expiration Date: N/A Expiration Date: N/A Authorization Date: N/A Expiration Date: N/A Expiration Date: N/A Expiration Date: N/A Authorization Date: N/A Expiration Date: N/A Ex				71 / / 0	WP&IR: 25221-003-	M0P-7	065-00002-0	000
S3-1301-ML-015, Sh 1, ECNs A47702, D0042697 & PIC D0041642 Expiration Date: N/A 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda [see note (a)] (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 5. Identification of Components: Name of Name of Name of Components: National Other Section Manufacturer Serial No. Board No. Identification Built or Installed Yes Williams Kellogs N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Williams Kellogs N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Williams Kellogs N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Williams Williams Kellogs N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Williams Williams Williams Kellogs N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Williams Williams Williams Williams Kellogs N5: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Williams Williams Williams Williams Kellogs N6: S3-1301-1 N/A S3-1301-ML-015 1978 see block 7 Yes Williams	4. Identification of S	System: 1301 (M	am Steam System)		Type Code Symbol S	tamp:	N/A	
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 5. Identification of Components: Name of Component				0041642				
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 5. Identification of Components: Name of Component	5 (a) Applicable (Construction Co.	le: ASME Section III.	Class 2, 19	74 Edition, Summer 1974	Adden	da [see note	(a)]
Name of Component Name of Manufacturer Serial No. Name of Component Name of Manufacturer Serial No. Name of Component Manufacturer Serial No. Name of Manufacturer Serial No. National Deductification Name of Manufacturer Serial No. National Deductification Name of Manufacturer Serial No. National Deductification Name of Manufacturer Serial No. Name of								
Name of Component Manufacturer Serial No. Board No. Identification Built Year Installed Yes Installed Yes Installed Yes Blowdown Line and Bechtel 4" x 3" BW Swage (BOM item #25) Supply Co. Heat Code 5019ANC SA-234 gr WP22 3", Mark 129 Gate VV Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Yer Peplacement for above (BOM item #35) 3" RPS, Sch 80 Pipe, (BOM item #24) Energy Services BH5139 N/A ILN 10000023627 (NC) Installed No. SA-234 gr WP22 3", Mark 129 Gate VV Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Yer Peplacement for above (BOM item #35) N/A ILN 10000023627 (NC) Installed No. SA-335 gr P22 3", Mark 129 Gate VV Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Yer Peplacement for above (BOM item #35) N/A ILN 10000023627 (NC) Installed No. SA-335 gr P22 3", Mark 129 Gate VV Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Yer Peplacement for above (BOM item #24) Energy Services N/A ILN 10000023627 (NC) Installed No. SA-335 gr P22 5 cach, 3"NPS Sch 80 Pipe, (BOM item #26 & #36) BW, LR 90° El's Process Corp. Heat# M8456 N/A ILN 10000024168 (NC) Installed No. SA-234 gr WP22S Description of Work: A portion of the blowdown piping was rerouted in conjunction with replacement of the S31305ME0 cam generator. The associated pipe support work is documented on a separate NiS-2. The boundary of this replacement is effined on drawing S3-1301-ML-015 Sh 1 and the associated changes listed above. The following 4" pipe weld was performed: "CM", "CN", "CP", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CV	(b) Applicable E	dition of Section	XI Utilized for Repa	air/Replace	ement Activity: 1995 Edit	ion; 19:	96 Addenda	
Name of Component Name of Namufacturer Serial No. National Board No. Identification State Installed No. State Installed No. Name of State Installed No. Name of State Installed No. Name of Installed No. Name of State Installed No. Name of Name of Namufacturer Name of Namufacturer National National Namufacturer National Nation	6. Identification of C	omponents:						,
Component Manufacturer Serial No. Board No. Identification Built Or Installed Yes							1	ASME
4"NPS & 3NPS Blowdown Line and Bechtel and Bechtel 4"x 3" BW Swage (BOM item #25) Supply Co. Heat Code 5019ANC SA-234 gr WP22 3", Mark 129 Gate VV Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Ye replacement for above (BOM item #35) Bubserve BH539 N/A S31301MU013 1976 Removed Ye replacement for above (BOM item #35) Bubserve BH539 N/A S31301MU013 2009 Installed "Ye (BOM item #35) Bubserve BH539 N/A S31301MU013 2009 Installed "Ye (BOM item #35) Bubserve BH539 N/A ILN 10000012401 (NC) Installed No BW, LR 90° El's (BOM item #24) Beergy Services Beergy and Bw, LR 90° El's (BOM item #26 & #36) Description of Work: A portion of the blowdown piping was rerouted in conjunction with replacement of the S31305ME0 am generator. The associated pipe support work is documented on a separate NIS-2. The boundary of this replacement is fined on drawing S3-1301-ML-015 Sh I and the associated changes listed above. The following 4" pipe weld was performed: "CM", "CP", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CW", "CY",		1		ľ	1	1	i '	Code Stampe
4"NPS & 3NPS Blowdown Line and Bechtel and	Component	Manutacturer	Serial No.	Board No.	Identification	Dunc		Yes/No
4" x 3" BW Swage (BOM item #25) Supply Co. Heat Code 5019ANC SA-234 gr WP22 3", Mark 129 Gate Vv Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Ye replacement for above (BOM item #35) 3", Mark 129 Gate Vv Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Ye (BOM item #35) 3"NPS, Sch 80 Pipe, (BOM item #24) 6 each, 3"NPS Sch 80 Energy Services Energy Services (BOM item #24) 6 each, 3"NPS Sch 80 Energy and Process Corp. Benergy Services (BOM item #26) 7 Energy and Process Corp. 8 Heat# M8456 N/A ILN 10000024168 (NC) 8 SA-234 gr WP22 1 Installed Nc SA-234 gr WP22 1 Installed Nc SA-234 gr WP22 1 Installed Nc SA-234 gr WP22 2 Installed Nc SA-234 gr WP22 3 Energy and Process Corp. 4 Energy services (BOM item #26) 5 Energy and Process Corp. 4 Energy and Process Corp. 5 Energy and Process Corp. 6 Energy and Process Corp. 6 Energy and Process Corp. 7 Energy and Process Corp. 8 Energy and Process Corp. 9 Energy and Process Corp. 1 Energy and Process Corp. 2 Energy and Process Corp. 2 Energy and Process Corp. 2 Energy and Process Corp. 3 Energy and Process Corp. 4 Energy Services 5 Energy and Process Corp. 5 Energy and Process Corp. 5 Energy and Process Corp. 6 Energy and Process Corp. 8 Energy Services 8 Energy Serv			N5: S3-1301-1	N/A	S3-1301-ML-015	1978		Yes
3", Mark 129 Gate Vv Anchor/Darling 2N694 N/A S31301MU013 1976 Removed Ye replacement for above (BOM item #35) 3"NPS, Sch 80 Pipe, (BOM item #24) Geach, 3"NPS Sch 80 BW, LR 90° El's (BOM items #26 & #36) BW, LR 90° El's (BOM items #26 & #36) Description of Work: A portion of the blowdown piping was rerouted in conjunction with replacement of the S31305ME0 eam generator. The associated pipe support work is documented on a separate NIS-2. The boundary of this replacement is fined on drawing S3-1301-ML-015 Sh 1 and the associated changes listed above. The following 3" pipe welds were performed: "CM", "CN", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CY", "CY", "CZ", "PA", and "PB". The new materials used are listed above. Vestel Construction code edition (1998 Edition, 2000 Addenda) was used for the vessel/elbow weld. The welding NDE ethodology and acceptance criteria for all welds was NC-5000, 1995 Edition, 1996 Addenda per Relief Request ISI-3-14.	4" x 3" BW Swage		1			_	Installed	No
replacement for above (BOM item #35) 3"NPS, Sch 80 Pipe, (BOM item #24) 6 each, 3"NPS Sch 80 Process Corp. 6 Energy Services 6 Energy and BW, LR 90° El's (BOM items #26 & #36) Description of Work: A portion of the blowdown piping was rerouted in conjunction with replacement of the S31305ME0 eam generator. The associated pipe support work is documented on a separate NIS-2. The boundary of this replacement is fined on drawing S3-1301-ML-015 Sh I and the associated changes listed above. The following 3" pipe welds were performed: "CM", "CN", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CW", "CS", "CZ", "PA", and "PB". The new materials used are listed above. Vessel construction code edition (1998 Edition, 2000 Addenda) was used for the vessel/elbow weld. The welding NDE ethodology and acceptance criteria for all welds was NC-5000, 1995 Edition, 1996 Addenda per Relief Request ISI-3-14. Stem Leakage Test and VT-2 Exam was conducted on NMO 800496189, Operation 0073						1976	Removed	Yes
3"NPS, Sch 80 Pipe, (BOM item # 24) Energy Services SA-335 gr P22 Installed No. SA-335 gr P22 Installed SA-335 gr P22 Installed BW, LR 90° El's (BOM items #26 & #36) Description of Work: A portion of the blowdown piping was rerouted in conjunction with replacement of the S31305ME0 eam generator. The associated pipe support work is documented on a separate NIS-2. The boundary of this replacement is fined on drawing S3-1301-ML-015 Sh I and the associated changes listed above. The following 4" pipe weld was performed: "CM", "CN", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CV", "CZ", "PA", and "PB". The new materials used are listed above. Vessel construction code edition (1998 Edition, 2000 Addenda) was used for the vessel/elbow weld. The welding NDE ethodology and acceptance criteria for all welds was NC-5000, 1995 Edition, 1996 Addenda per Relief Request ISI-3-14.	replacement for above			 	S31301MU013		Installed	Yes
BW, LR 90° El's (BOM items #26 & #36) Process Corp. Description of Work: A portion of the blowdown piping was rerouted in conjunction with replacement of the S31305ME0 earn generator. The associated pipe support work is documented on a separate NIS-2. The boundary of this replacement is fined on drawing S3-1301-ML-015 Sh I and the associated changes listed above. The following 4" pipe weld was performed: "CM", "CN", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CW", "CN", "CY", "CZ", "PA", and "PB". The new materials used are listed above. Vessel construction code edition (1998 Edition, 2000 Addenda) was used for the vessel/elbow weld. The welding NDE ethodology and acceptance criteria for all welds was NC-5000, 1995 Edition, 1996 Addenda per Relief Request ISI-3-14. Stem Leakage Test and VT-2 Exam was conducted on NMO 800496189, Operation 0073			Heat # 00A071963	N/A			Installed	No
Description of Work: A portion of the blowdown piping was rerouted in conjunction with replacement of the S31305ME0 eam generator. The associated pipe support work is documented on a separate NIS-2. The boundary of this replacement is fined on drawing S3-1301-ML-015 Sh I and the associated changes listed above. The following 4" pipe weld was performed: "CM", "CN", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CV", "CY", "CZ", "PA", and "PB". The new materials used are listed above. Nets: Vessel construction code edition (1998 Edition, 2000 Addenda) was used for the vessel/elbow weld. The welding NDE ethodology and acceptance criteria for all welds was NC-5000, 1995 Edition, 1996 Addenda per Relief Request ISI-3-14.			Heat# M8456	N/A			Installed	No
Description of Work: A portion of the blowdown piping was rerouted in conjunction with replacement of the S31305ME0 eam generator. The associated pipe support work is documented on a separate NIS-2. The boundary of this replacement is efined on drawing S3-1301-ML-015 Sh 1 and the associated changes listed above. The following 4" pipe weld was performed: "Ch", "CP", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CW", "CY", "CZ", "PA", and "PB". The new materials used are listed above. Detes: Vessel construction code edition (1998 Edition, 2000 Addenda) was used for the vessel/elbow weld. The welding NDE ethodology and acceptance criteria for all welds was NC-5000, 1995 Edition, 1996 Addenda per Relief Request ISI-3-14.	•						in in	
stem Leakage Test and VT-2 Exam was conducted on NMO 800496189, Operation 0073	eam generator. The as affined on drawing S3-1 CL". The following 3" CY", "CZ", "PA", and ones: Vessel construction	sociated pipe sup 301-ML-015 Sh pipe welds were "PB". The new code edition (199	port work is document I and the associated control performed: "CM", "Control performed are listed are listed. Be Edition, 2000 Adde	ted on a sep hanges liste CN", "CP", ed above.	parate NIS-2. The boundard above. The following 4' "CQ", "CR", "CS", "CT", about the vessel/elbow we	ry of th. " pipe v "CU", eld. Th	is replaceme weld was per "CV", "CW he welding N	nt is formed: ", "CX",
Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: X Exempt: Other:						nei Ke	quest 151-3-1	4.
	Tests Conducted: H	Iydrostatic:	Pneumatic: No	minal Oper	rating Pressure: X E	xempt	Othe	er:
Pressure: 1011 psia Test Temp: 546 °F			Pressure:	1011	psia Test Temp:	54	46°I	7

NOTE:

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 Merchker Supervising ASME Code Engineer Date: 2/15/11 Owner or Owner's Designee, Title
Signed: Roger Sholmed for AB Merch & Supervising ASME Code Engineer Date: 2/15/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>05-24-vo</u> to <u>01-4-11</u> , 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.
Linspector's Signature Commissions NB12050 A, N, I CA1969 (National Board, State, Province, and Endorsements)
Date

As Required by the Provisions of the ASME Code Section XI

			======		=====		
1. Owner: Sou	thern California Edi 44 Walnut Grove Ax	son Company venue, Rosemead, CA	01770	Date: 1/3/2011			Sheet 1 of
			91770	Unit: 3		•	
2. Plant: San O. Address: P.C	nofre Nuclear G <mark>ene</mark> D. Box 128, San Cler	rating Station nente, CA 92672-012	8	Repair/Replacemen	t Plan:	3-M0P-706	5-4
3. Work Perford Address: 224	ned by: Southern C 4 Walnut Grove Av	California Edison Comp enue, Rosemead, CA	oany 91770	WO: 800461251			
			71770	WP&IR: 25221-003	-M0P-7	7065-00004-	000
-	of System: 1301 (M			Type Code Symbol S	Stamp:	N/A	
NECP 040901164 S3-1301-ML-016,	-39, ASC D0037076 Sh 1 (ECN D00307	5, PIC D0039924 20)		Authorization No: Expiration Date:	-	N/A N/A	
5. (a) Applicable	le Construction Co	de: ASME Section III,	, Class 2, 19	974 Edition, Summer 1974	Adden	ıda [see note	e (a)]
				ement Activity: 1995 Edi			
6. Identification of	f Components:						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No	Other Identification	Year Built	Corrected, Removed, or	Code Stamped
4"NPS & 3NPS Blowdown Line	Pullman Kellogg and Bechtel	N5: S3-1301-2	N/A	S3-1301-ML-016	1978	Installed see block 7	Yes/No Yes
1 each, 4" x 3" BW 90° Reducing Elbow, Sch 80, 4" radius, (BOM item #21)	Tioga Pipe & Supply, Inc.	Heat Code 3272ANG1 Heat# Y0924	N/A	ILN 10000025913 (NC) ····SA-234 gr WP22		Installed	No
Approx. 22', 3"NPS, Sch 80 Pipe, (BOM item # 20)	DuBose National Energy Services	Heat # 00A071963	N/A	ILN 10000023627 (NC) SA-335 gr P22		Installed	No
3 each, 3"NPS Sch 80 BW, LR 90° Elbows (BOM item	Energy and Process Corp.	Heat# M8456	. N/A	ILN 10000024168 (NC) SA-234 gr WP22S		Installed	No
#19)			l				
steam generator. The	boundary of this rep d was performed: "N	olacement is defined or M". The following 3" r	n ECN D00	n conjunction with replace 30720 to drawing S3-130 were performed: "N", "Q"	1-ML-0	16 Sh 1. Th	ne
Notes: a). Vessel constructio methodology and accept	n code edition (199 ptance criteria for al	8 Edition, 2000 Adden Il welds was NC-5000,	nda) was use 1995 Editi	ed for the vessel/elbow we on, 1996 Addenda per Rel	ld. The	e welding N Juest ISI-3-1	DE 4.
System Leakage Test a	nd VT-2 Exam was	conducted on NMO 80	00496189,	Operation 0074			
8. Tests Conducted:	Hydrostatic:	Pneumatic: Nom	uinal Opera	nting Pressure: X Ex	cempt:	Othe	r:
		Pressure:_	1011	psia Test Temp:	54	16°I	٦
		-					

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: Kaga SAdmes for ABMeichler-Supervising ASME Code Engineer Date: 2/15/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>OS-24-10</u> to <u>OL-CA-11</u>, 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.

±.0, D.w	Commissions NB12050 A, N, I CA1969
Inspector's Signature	(National Board, State, Province, and Endorsements)
~ ~ .	

Date 3-22-11

As Required by the Provisions of the ASME Code Section XI

۱.	Owner:	Southern	California	Edison	Company
----	--------	----------	------------	--------	---------

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

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

4. Identification of System: 1301 (Main Steam System)

NECP 040901164-39, ASC D0037076, PIC D0039924 S3-1301-ML-015, Sh 4, ECN D0042473, PICD0036711, D0035453, D0031851 Date: 1/10/2011

Sheet 1 of 1

Unit: 3

Repair/Replacement Plan: 3-M0P-7065-8

WO: 800461252

WP&IR: 25221-003-M0P-7065-00008-000 and

WCN 25221-003-M0N-7065-00008

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

5. (a) Applicable Construction Code: ASME Section III, NF, Class 2, 1974 Edition, Summer 1974 Addenda [see note (a)]

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

6. Identification of Components:

	T = = = = = = = = = = = = = = = = = = =		7			Corrected,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Stamped Yes/No
S31305ME088 Blowdown Line	Bechtel	N5: S3-1301-1	N/A	S3-1301-ML-015		see block 7	No
Pipe Support	Bechtel	N/A	N/A	S3-ST-015-H-701		Removed	No
Pipe Support	Bechtel	N/A	N/A	S3-ST-015-H-702		Removed	No
Pipe Support	Bechtel	N/A	N/A	S3-ST-015-H-703		Removed	No
Pipe Support	Bechtel	N/A	N/A	S3-ST-015-H-704		Removed	No
Pipe Support	Bechtel	N/A	N/A	S3-ST-015-H-722		Removed	No
Pipe Support	Bechtel	N/A	N/A	S3-ST-015-H-723		Removed	No
Spring Can Support Assy	Anvil Int'l	see note b	N/A	S3-ST-015-H-801		Installed	No
Sway Strut, Fig 211N, Size A; (BOM item #14)	Anvil Int'l	see note c	N/A	S3-ST-015-H-802 ILN 10000025305		Installed	No
Sway Strut, Fig. 211N, Size B; (BOM item # 16)	Anvil Int'l	see note c	N/A	S3-ST-015-H-803 ILN 10000025844		Installed	No
3" Pipe Strap, Fig CL144N (BOM item # 20)	Anvil Int'l	Ht. Code JG6449	N/A	S3-ST-015-H-804 ILN 10000025838		Installed	No

7. Description of Work:

A portion of the blowdown piping was rerouted in conjunction with replacement of the S3130SME088 steam generator. The scope of this replacement includes the "NF" pipe support work associated with the piping reroute. The pipe supports listed above were removed/installed as part of this scope. The replacement hardware was certified to NF, Code Class 2. Each of the new supports installed required "NF" welds for installation.

Notes:

- a) Vessel construction code edition (1998 Edition, 2000 Addenda) was used for the vessel nozzle weld. The welding NDE methodology and acceptance criteria for all welds was NF-5000, 1995 Edition, 1996 Addenda per Relief Request ISI-3-14.
- b) The new spring can support assembly included the following individual parts: Anvil, Fig 82N variable spring, size 6, type B, ILN 10000025839; Anvil, Fig 66N, 5/8" welded beam attachment, ILN 10000025840; Anvil, Fig 140N, 5/8" rod, Heat #325236, ILN 10000025841; Anvil, Fig 290N, 5/8" weldless eye nut, Heat #S76555, ILN 10000025842; Anvil, Fig 295N, 3" double bolt clamp, 3" pipe, ILN 100000843; Mackson, 5/8"-11, heavy hex nuts, 2 each, SA-194 2H, Trace "LWV", RSO 0968-07.
- c) Strut assemblies were not serialized. Refer to ILN package for itemization of material heat numbers used for fabrication.

8.	Tests Conducted:	Hydrostatic:	Pneumatic:	Nominal Operating F	ressur	e:	Exempt:	Oth	er:
	No VT-3 exam was	required for this s	cope (IWF-1230)				Test Temp:_		

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: Light Holmen St. ABMer Ch/ler Supervising ASME Code Engineer Date: 1/11/11

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 Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period os/25/10 to o1/12/11, 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.

•	1 Blake	Commissions	NB6752 A. B. I. N. NS MN054531	
•	Inspector's Signature	_	(National Board, State, Province, and Endorsements)	•
.	-1/2/1			

As Required by the Provisions of the ASME Code Section XI

	1. Owner: Southern Address: 2244 Wa		1 2	A 01770	Date: 1/5/2011			Sheet 1 of 1
				A 91770	Unit: 3			
	2. Plant: San Onofre Address: P.O. Box			128	Repair/Replacement	Plan:	3-M0P-706	5-9, Rev 1
	3. Work Performed by Address: 2244 Wa				WO : 800461253			
					WP&IR: 25221-003-	M0P-7	065-00009-	000
	4. Identification of Sy				Type Code Symbol S	-		
	NECP 040901164-39, A S3-1301-ML-016, Sh 5,				Authorization No: Expiration Date:		N/A N/A	, •
	5. (a) Applicable Co	onstruction Cod	e: ASME Section	III, Class 2,	1974 Edition, Summer 1974	Adden	ida [see note	: (a)]
	(b) Applicable Ed	ition of Section	XI Utilized for R	lepair/Repla	cement Activity: 1995 Edit	ion; 19	96 Addenda	Į.
	6. Identification of Co			•	·			
						Ī	Corrected,	
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or	Code Stamped
							Installed	Yes/No
	Blowdown Line for S31305ME089	Bechtel	N/A	N/A.	\$3-1301-ML-016.		see block 7	. No
	Sway Strut, Fig. 211N, Size B; (BOM item #1)	Anvil International	note b	N/A	S3-ST-016-H-801 ILN 10000027905 (NF-2)	-	Installed	No
	Sway Strut, Fig. 211N, Size B; (BOM item # 12)	Anvil International	note b	N/A	S3-ST-016-H-802 ILN 10000025845 (NF-2)		Installed	No
	steam generator. The sco blowdown line. The two H-802 strut (20" center to length was shortened abou	pe of this replac pipe supports list center) had to but 7" by cutting a	ement includes the ted above were in e shortened in ord in existing factory	e "NF" pipe s stalled as par ler for the stra weld, shorte	ed in conjunction with replace support work associated with to f this scope. The as-supput to fit in its designated field ming the extension piece and steel by an "NF" weld during	the realied lead lied lead location re-wel	routing a sec agth of the S ion. The as- ding the iter	supplied
1	nethodology and acceptan	nce criteria for al	l welds was NC-50	000, 1995 Ed	ised for the vessel/elbow wellition, 1996 Addenda per Re tion of material heat number	lief Re	quest ISI-3-	14.
	8. Tests Conducted: Hy No VT-3 exam was require			_	erating Pressure:E		Otho	er: °F

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: Logar Holmes for ABMe'chler Supervising ASME Code Engineer Date: 1/5/11

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 Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 5/25/10 to 01/05/11, 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 NB6752 A, B, I, N, NS MN054531

(National Board, State, Province, and Endorsements)

Date ____01/05/11

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company	Date: 1/18/2011	Sheet 1
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770		

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

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

4. Identification of System: 2101, Containment

NECP 800072669, ASCs D0033431, D0036294, D0039615, D0039871,

D0040164, D0042675

Replacement Item Specs: SO23-617-3A-M25, M26, M28, M30 & M143

Dwgs: 23000, 23001, SO23-617-3A-D32, D33, D35 & D142

WO: *800476246, 800468480 WP&IR: *25221-003-C0P-3051-00200, 25221-003-C0P-3051-00119-000

3-C0P-3051-119, R1

Repair/Replacement Plan: *3-C0P-003-3051-200,

Unit: 3

of 1

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

Applicable Construction Code: None; Containment Building was designed per Bechtel Topical Report BC-TOP-5, Revision 1, December 1972 (ref UFSAR 3.8.1). Post Tension System was constructed per specification SO23-204-03.

Applicable Edition of Section XI Utilized for Repair/Replacement Activity: Subsection IWL, 2001 Edition, 2003 Addenda

6. Identification of Components:

Name of	Name of	Manufacturer	National	Other	Year	Corrected,	ASME
Component	Manufacturer	Serial No.	Board	Identification	Built	Removed, or	Code
Containment Bldg.	Bechtel Power Corp.	N/A	No. N/A	S32101CS001	1983	Installed (see block 7)	Stamped no
Post-Tensioning System	VSL		N/A	S3.STRC.S22101TNDNS - 60/4/11 3 RLH 1/21/11	1983	(see block 7)	no
Tendon, ½" diam, seven wire strand	Sumiden/SDI	see supp sheet	N/A	A416-06 grade 270		installed	no .
Wedges	Enerpac/SDI	see supp sheet	N/A	AISI 86L20		installed	no
Shims, 1" & 2"	Nowell Steel/SDI	see supp sheet	N/A	SA-537 Class 1		installed	no
Provisional Shims (0.063")	Nowell Steel/SDI	see supp sheet	N/A	A-607 Grade 50		installed	no
Anchor Heads	Enerpac/SDI	see supp sheet	N/A	EN10025-1993 gr \$355J2G3		installed	no

7. Description of Work: A temporary construction opening approximately 27' wide X 28' high was cut in the containment building to provide an opening for removing the original steam generators and installing new replacement steam generators. This work scope includes a portion of the Post-Tensioning System hardware which was removed and replaced in conjunction with the construction opening work. This scope is limited to the vertical tendons in the construction opening work scope (horizontal tendon scope is documented separately). The old vertical tendon/hardware was removed in the construction opening area before the hole was cut. The new tendons were prefabricated (cut to length) on WP&IR*25221-003-C0P-3051-00200. The new strand along with new anchor heads, wedges and shims were then installed at each location on WP&IR 25221-003-COP-3051-00119, after the opening was restored. The tendon locations in this scope and the replacement material data is listed on the attached supplemental sheet. The following procedures were used in conjunction with this work scope: SO23-617-3A-M54 (Tendon and Grease Removal), SO23-617-3A-M10 (Tendon Sheath Inspection), SO23-617-3A-M11 (Tendon Installation) and SO23-617-3A-M282 (Tendon Stressing).

NOTE: Change notice (WCN) was issued against W	P&IR 25221-003-C0P-3051-00001	: 25221-003-C0N-3051-00119	
. Tests Conducted: Hydrostatic: Pneumat	tic: Nominal Operating Pres	sure: Exempt: Other:	
No pressure testing is required for this scope	Pressure: N/A psi	Test Temp: N/A °F	

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 Ablance for AB Meich ler Supervising ASME Code Engineer Date: 1/19/11

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 Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period object to object of measures described in this Owner's Report in accordance with 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 NB6752 A, B, I, N, NS MN054531
(National Board, State, Province, and Endorsements)

SUPPLEMENTAL SHEET

The following (36) vertical tendons were included in this scope:

61-1, 60-2, 59-3, 48-104, 49-103, 50-102, 51-101, 52-100, 53-99, 62-180, 63-179, 64-178, 65-177, 66-176, 67-175, 68-174, 69-173, 70-172, 71-171, 72-170, 73-169, 74-168, 75-167, 76-166, 77-165, 78-164, 79-163, 80-162, 81-161, 82-160, 83-159, 84-158, 85-157, 86-156, 87-155 and 88-154.

Replacement Tendon Strand Material Documentation:

SO23-617-3A-M273 and SO23-617-3A-M315. The tendon material heat numbers and pack numbers installed at each location (too numerous to list) are documented in the WP&IR, Attachment 10, Exhibit 4. Material reconciliation SO23-617-3A-M103 applies.

Replacement Anchor Head Material Documentation:

SO23-617-3A-M319. Heat number 754261, 72 each. Material reconciliation SO23-617-3A-M107, Rev 2 applies.

Replacement Wedge Material Documentation:

SO23-617-3A-M166, M167, M169, M262 & M263, heat number NW4294H; SO23-617-3A-M168 & M261, heat number 5070169;

SO23-617-3A-M340, heat number 5095412 were installed.

Replacement Shim Material Documentation:

1" thick shims: SO23-617-3A-M211, heat numbers W8D622-B20 and E8D142-B24 were installed.

2" thick shims: SO23-617-3A-M82, M111, M211 & M309, heat numbers W8F630-B31, W8625-B65, W8F630-B32, E8C145-B20, E8C145-B21 and E8C145-B19 were installed.

0.063" thick (provisional) shims: SO23-617-3A-M164, heat number G03994 was installed.

R& Llolmes 1/19/11

As Required by the Provisions of the ASME Code Section XI

1. Owner: South		dison Company Avenue, Rosemea	of CA OF	770	Date: 1/20/201	!		Sheet 1 of
			au, CA 91	110	Unit: 3			
2. Plant: San On Address: P.O.		lemente, CA 926	72-0128		Repair/Replace	ment Pl	an: 3-C0P-305	1-121, R1
3. Work Perform	red by: Southern	California Ediso Avenue, Roseme	on Compan	.y .770	WO : 800468483	3		
			au, CA 91	770	WP&IR: 25221-	·003-C0	P-3051 - 00121-0	000
4. Identification of NECP 800072669. D0040164, D00420 Dwgs: 23000, 2300 Replacement Item S	ASCs D0033431 375 11, SO23-617-3A	, D0036294, D0 -D32, D33, D35	& D142		Type Code Symbol Authorization N Expiration Date:	0:	np: N/A N/A N/A	
Revision 1	, December 1972	(ref UFSAR 3.8.	.1). Post T	ension Syste	designed per Beclem was constructent Activity: Subse	d per sp	ecification SO2	3-204-03.
. Identification of	Components:							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	j	Other ntification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
Containment Bldg.	Bechtel Power Corp.	N/A	N/A	· S32	101CS001	1983	(see block 7)	no
Post-Tensioning System	VSL	Marina	N/A	S3.STRC.	S32101TNDNS	1983	(see block 7)	no
Tendon, ½" diam, seven wire strand	Sumiden/SDI	see supp sheet	N/A	A416-0)6 grade 270		installed	no
Wedges	Enerpac/SDI	see supp sheet	N/A	AIS	I 86L20		installed	no
Shims, 2"	Nowell Steel/SDI	see supp sheet	N/A	SA-53	37 Class 1		installed	no
Anchor Heads	Enerpac/SDI	see supp sheet	N/A E	EN10025-19	93 gr S355J2G3		installed	no
Description of Woolding to provide an ork scope includes a natruction opening vening work scope. Addon/hardware was rids, wedges and shirterial data is listed ope: SO23-617-3A-Indon Installation) at TE: Change notices	opening for remo- portion of the Po- york. This scope Additional horizo emoved in the co- ms were installed on the attached su M54 (Tendon and and SO23-617-3A	oving the original st-Tensioning Sy is limited to the land of and variety of the land of t	I steam gen estem hardy horizontal vertical tening area befor was restor t. The follows, SO23-6 Stressing).	nerators and ware which ware which watendons between don scope are fore the hole ared. The ten owing proce \$17-3A-M10	installing new rep was removed and neen buttresses #1 re documented sep was cut. The new don locations in the dures were used in (Tendon Sheath I	lacement eplaced A and # parately. strand his scoper conjurts to the conjurts of the conjurts	t steam generate in conjunction in conjunction is more construction. The old horizon along with new e and the replaction with this von), SO23-617-3	ors. This with the ruction ontal anchor ement work SA-M11
25221-003-C0N-30	051-200121	-			*			

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in, x 11 m., (2) information in Items 1 through 6 on this report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each sheet is initialed and dated by the Owner or owner's designee and the AlA.

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 X1.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

OF Supervising ASME Code Engineer Date: 1/20/1/ Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

1, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period objection to other than the owner's Report during the period objection to other 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.

Commissions NB6752 A. B. I. N. NS MN054531

(National Board, State, Province, and Endorsements)

SUPPLEMENTAL SHEET

The following (23) horizontal tendons were included in this scope:

14, 17, 20, 23, 26, 29, 32, 35, 38, 41, 44, 47, 50, 53, 56, 59, 62, 65, 68, 71, 74, 77 and 80.

Replacement Tendon Strand Material Documentation:

SO23-617-3A-M119, SO23-617-3A-M273 and SO23-617-3A-M315. The tendon material heat numbers and pack numbers installed at each location (too numerous to list) are documented in the WP&IR, Attachment 10, Exhibit 4. Material reconciliation SO23-617-3A-M103 applies.

Replacement Anchor Head Material Documentation:

SO23-617-3A-M319. Heat number 754261, 45 each. And SO23-617-3A-M266, 1 each. Material reconciliation SO23-617-3A-M107, Rev 2 applies.

Replacement Wedge Material Documentation:

SO23-617-3A-M109, M166, M167, M169, M262 & M263, heat number NW4294H; SO23-617-3A-M168 & M261, heat number 5070169; SO23-617-3A-M340, heat number 5095412 were installed.

Replacement Shim Material Documentation:

2" thick shims: SO23-617-3A-M82, M111, M211 & M309, heat numbers W8F630-B31, W8625-B65, W8F630-B32, E8C145-B20, E8C145-B21 and E8C145-B19 were installed.

RAHolmes 1/20/11

As Required by the Provisions of the ASME Code Section XI

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				Date: 1/20/2011		S	Sheet 1 of 1	
				Unit: 3				
	 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 				Repair/Replacen	nent Pla	n: 3-C0P-3051	-123, R1
3. Work Performe		California Edisor Avenue, Rosemea			WO: 800468484			
		,	, 011 > 1	, , , ,	WP&IR: 25221-0	003-C0F	P-3051-00123-0	00
4. Identification of NECP 800072669, A			20615 DC	0020871	Type Code Symb	ol Stam	n. N/A	•
D0040164, D00426		, 100000294, 1000	37015, DC	7039071,	Type Code Symbol Stamp: N/A Authorization No: N/A			
Dwgs: 23000, 23001		D32, D33, D35 &	& D142		Expiration Date:		N/A	
Replacement Item S	pecs: SO23-617-	3A-M25, M26, N	128, M30	& M143				
Revision 1,	December 1972	(ref UFSAR 3.8.	1). Post T	ension Syst	designed per Bechem was constructed	d per spe	ecification SO23	3-204-03.
6. Identification of	Components:							
Name of	Name of	Manufacturer	National	I	Other	Year	Corrected,	ASME
Component	Manufacturer	Serial No.	Board	Ide	entification	Built	Removed, or	Code
			No.				Installed	Stamped
Containment Bldg.	Bechtel Power	N/A	N/A	S32	2101CS001	1983	(see block 7)	no
Post-Tensioning	Corp. VSL		N/A	C2 CTD C	SS32101TNDNS	1983	(see block 7)	no.
System	VSL		IN/A	33.31 KC	מאנשאון וטוצכט.	1903	(See DIOCK 1)	no
Tendon, ½" diam,	Sumiden/SDI	see supp sheet	N/A	A416-	-06 grade 270	***	installed	no
seven wire strand		2 2						
Wedges	Enerpac/SDI	see supp sheet	N/A	AI	SI 86L20		installed	no
Shims, 2"	Nowell Steel/SDI	see supp sheet	N/A	SA-	537 Class I		installed	no
Anchor Heads	Enerpac/SDI	see supp sheet	N/A	EN10025-1	993 gr S355J2G3		installed	no
7. Description of Wo building to provide an work scope includes a construction opening wo opening work scope. I endon/hardware was a neads, wedges and shi material data is listed of cope: SO23-617-3A- Tendon Installation) a NOTE: Change notice: 5221-003-C0N-3051-	opening for rem portion of the Powork. This scope Additional horizon removed in the coms were installed on the attached so M54 (Tendon and SO23-617-34) were is:	oving the original ost-Tensioning Sye is limited to the ontal tendon and onstruction opening after the opening upplemental sheet of Grease Removal-M282 (Tendon sued against the Section of Section 1982).	I steam get ystem hard horizontal vertical ter ng area be g was resto et. The fol al), SO23- Stressing)	nerators and ware which tendons be identified the holored. The to lowing process of the holored. The to lowing process of the holored.	d installing new rep was removed and tween buttresses #2 are documented sep e was cut. The new endon locations in to cedures were used in 10 (Tendon Sheath	lacement replaced 2B and 4 parately vistrand this scopin conjuits and the second secon	nt steam generated in conjunction if an interest in the constant of the constant interest in the	ors. This with the truction ontal anchor cement work
. Tests Conducted:			Nom	inal Opera N/A	-	Exen	npt: Other 	: _

0	Remai	el/e-	None
· ' '	r chia	11125:	Diffile.

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

Supervising ASME Code Engineer Date:

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 Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period o6/10/10 to 01/24/11, 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.

Commissions NB6752 A, B, I, N, NS MN054531 Inspector's Signature

(National Board, State, Province, and Endorsements)

Date

SUPPLEMENTAL SHEET

The following (23) horizontal tendons were included in this scope:

15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78 and 81.

Replacement Tendon Strand Material Documentation:

SO23-617-3A-M119, SO23-617-3A-M273 and SO23-617-3A-M315. The tendon material heat numbers and pack numbers installed at each location (too numerous to list) are documented in the WP&IR. Attachment 10, Exhibit 4. Material reconciliation SO23-617-3A-M103 applies.

Replacement Anchor Head Material Documentation:

SO23-617-3A-M319. Heat number 754261, 25 each. SO23-617-3A-M266, Heat number 963458, 12 each. SO23-617-3A-M170, Heat number 855476, 9 each. Material reconciliation SO23-617-3A-M107, Rev 2 applies.

Replacement Wedge Material Documentation:

SO23-617-3A-M166, M167, M169, M262 & M263, heat number NW4294H; SO23-617-3A-M168, heat number 5070169; SO23-617-3A-M340, heat number 5095412 were installed.

Replacement Shim Material Documentation:

2" thick shims: SO23-617-3A-M82, M211 & M309, heat numbers W8F630-B31, W8625-B65, W8F630-B32, E8C145-B20, E8C145-B21 and E8C145-B19 were installed.

Rt Holmes 1/24/11

As Required by the Provisions of the ASME Code Section XI

1. Owner: Sou Address: 22	Date: 1/1/2011			Sheet 1 of 1			
2. Plant ; San (Unit: 3	Unit: 3					
		mente, CA 92672-0	128	Repair/Replace	ement Pla	ın: 3-C0P-305	2-124
	•	California Edison Co venue, Rosemead, C	• •	W O: 80047624		·	
4. Identification of System: 2101, Containment				WP&IR: 25221 Type Code Sym Authorization N	bol Stam		000
D0039871, D Drawings: 200 617-3-D255 Specifications	NECP 800072669, ASC's D0033431, D0036294, D00039615, D0039871, D0040164 & D0042675 Drawings: 20000(ECNs A47942), 23027 Sh 2 ECN D0043783, SO23-617-3-D255 Specifications: SO23-617-11 (rebar), SO23-617-12 (cadweld sleeves), SO23-617-13 (Installation/Testing of Cadweld Splices)					N/A N/A	
UFSAR 3.8.1)	. Reinforcing Steel a	nd Cadweld Splices	were constru	ras designed per Bechtected per specifications nent Activity: Subsec	SO23-20	3-1 and SO23-	-203-2.
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
Containment Bldg.	Bechtel Power Corp.	N/A	N/A	S32101CS001	1983	(see block 7)	No
#18 Vertical Cadweld Sleeves, A-519 gr 1026	Erico International	N/A	N/A	Bechtel MRR 00916 Bechtel MRR 03073		Installed	No
#18 Horizontal Cadweld Sleeves, A- 519 gr1026	Erico International	N/A	N/A	Bechtel MRR 02164 Bechtel MRR 00916 Bechtel MRR 03073		Installed	No
#11 Vertical Cadweld Sleeves, A-519 gr 1026	Erico International	N/A	N/A	Bechtel MRR 00916 Bechtel MRR 03073		Installed	No
#9 Horizontal Cadweld Sleeves, A-519 gr 1026	Erico International	N/A	N/A	Bechtel MRR 00916 Bechtel MRR 02326 Bechtel MRR 03073		Installed	No
#8 Rebar, A615 gr 60 (radial ties)	Dubose National Energy Services, Inc.	Heat No: 2008680 Trace No: 37257	N/A	ILN 10000028147		Installed	No
building to facilitate rebar installation wo	e removing the origin ork performed to restrictly-one of the splice	nal steam generators ore the opening. Th	and installing e existing reb	ely 27' wide X 28' high new replacement ones ar was cut to permit re er AWS D1.4-98 and t	s. This w moval an	ork scope incl d then spliced	udes the back to
8. Tests Conducted	d: Hydrostatic:	Pneumatic:	Nominal C	Operating Pressure:	Exer	npt:Oth	ner:
No pressure testing i	s required for this so	ope Pressu	re: <u>N/A</u>	psi Test T	`emp:	N/A °F	

9	Ren	narke	None
J .	TACH	1411 153.	130116

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: Koget Stelmes St ABMeichler Supervising ASME Code Engineer Date: 1/2/1/
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 Minnesota, and employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period <u>o5/27/10</u> to <u>or \o3/11</u>, 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.

Commissions NB6752 A, B, I, N, NS MN054531 (National Board, State, Province, and Endorsements)

Date 01/03/11

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: Supervising ASME Code Engineer Date: Ociolo II 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/3/10</u> to <u>12/27/10</u> , 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 N8/3402-1 C47093 California (National Board, State, Province, and Endorsements)						
Date						

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: 05/04/11 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: 009-10

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800550897 / 800553023 / 800571506

4. Identification of System: 1219 Fuel Pool Cooling System

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

Applicable Construction Code: ASME Section III, Class 2, (NC) 1974 Edition 'S' 1974 Addenda 5. (a) NDE methods and acceptance per 1995 Edition 1996 Addenda

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
10" Sch. 10 pipe spool	Bechtel Corp.	N5 / SN S3-1219- 4	N/A	S3-1219-ML-107	74	Modified	No
10" Sch. 40 pipe 21'-4"	Jinghang	Heat #YX0810-02	N/A .	ILN# 10000026504 SA376 TP304/304L	N/A	Installed	No
10" Sch. 40 elbow 1ea.	Taylor Forge	Heat # MVRK-1	N/A	ILN # 1000026396 SA-403 Gr. WP304	N/A	Installed	No
10" Sch. 40 Flange 1ea.	Tioga Pipe	Heat # GHH	N/A	ILN # 10000026403 SA-182 Gr. WP304	N/A	Installed	No
7/8" Studs 36" Length	Mackson Inc.	Heat # 470650	·'N/A	ILN # 10000010325 SA-193 Gr. B7	N/A	Installed	No
7/8" Nuts 24 ea.	Cardinal	Heat # 301372	N/A	RSO # 3131-92 SA-194 Gr. 2H	N/A	Installed	No

7. Description of Work: The replacement of the ECCS stainless steel piping on line number S3-1219-ML-107 in accordance with ECP 800516571. This work scope provided for the installation of schedule 40 piping and to install a low carbon grade of stainless steel for corrosion and design improvement. The piping components were pre-fabricated under NMO #800550897 and Weld Record WR3-10-063 and installed under NMO # 8005503023. All NDE examinations were performed on all welds in accordance with the weld record.

References: RRP 009-10, NECP 800516572

8. Tests Conducted:	Hydrostatic:	Pneumatic:	Nominal Opera	ting Pressure:	<u>X_</u>	Exempt:	Other:
	See:	Pressure:	<u>175</u> psi	Test Temp:	N/.	<u>A</u> °F	

FORM NIS-2 (back)

9. Remarks: RoR-014-03 reconciles the replacement 6" pipe which was certified to 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 Supervising ASME Code Engineer Date: 5/4/2011 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 10/6/10 to 1/10/11, 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 W813402-1 CA2097 California (National Board, State, Province, and Endorse

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company				Date: 5/03/2011		Sh	neet 1 of 1	
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				Unit: 3	Unit: 3			
2. Plant: San Onofre l Address: P.O. Box	Nuclear Generating Stat 128, San Clemente, CA			Repair/Replaceme	ent Plan	: 800517039-0	010	
3. Work Performed b	y: Southern California Inut Grove Avenue, Ros			WO: 800517039				
4. Identification of Sy	·	·	70	Type Code Symbo Authorization No Expiration Date:	-	o: N/A N/A N/A		
5. (a) Applicable Co	onstruction Code: ASN	ИЕ Section III, С	lass 2, 1	974 Edition, Summer 1	974 Add	lenda		
(b) Applicable Ed	lition of Section XI Ut	ilized for Repair	:/Replac	ement Activity: 1995	Edition;	1996 Addenda		
6. Identification of Co	omponents:	-	-					
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat'l Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No	
6" NPS ECCS Piping	Pullman Inc.	S3-FS-057-052	_	S31219ML057	1978	Corrected	Yes	
(5') 6" NPS sch 40s Pipe	Tioga Pipe Supply Co.	HT# 42262	N/A	ILN-10000026405 SA376-TP304	-	Installed	No	
7. Description of Work: A portion of the 6" NPS, Sch. 10s ECCS gravity feed piping from the refueling storage tank was replaced with schedule 40s per NECP 800542134. The welding and NDE were performed in accordance with weld records WR3-10-016 (EM) and WR3-10-017 (EP). All of the welds were RT examined, methods and acceptance per NC-5111/5320, 1995 Edition, 1996 addenda. References: S3-1219-ML-057, Sht. 5 (ECN D0036057) for specific weld locations.								
	k N. C. Children	. y = 1 (e)		2	<i>y</i>	· . · . · . · . · . · . · . · . · . · .		
8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:_X Exempt: Other:								
	Pressure: RWST	Level 94%	Fest Ter	np: <u>N/A</u>	_°F			

NOTE:

Q	Re	ma	rks:	No	ne
7.	IXE	ша	I NO.	110	HC.

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: Koger Lyllmen for AB Merch/Pr Supervising ASME Code Engineer Date: 5/5/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/3/10</u> to <u>12/27/10</u>, 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.

	WAZCHa	Commissions NB 13402 A, N, I CA2093
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	5/6/11	

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: 05/05/2011

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Unit: 3

Repair/Replacement Plan: 010-10, Rev 1

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800550894, 800516800

4. Identification of System: 1204, ECCS system

Type Code Symbol Stamp: N/A Authorization No:

N/A

Isometric: S3-1204-ML-080, Sht 3 (ECN D0043214)

Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, summer 1974 Addenda

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

6. Identification of Components:

						Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
Component	Manufacturer	Serial No.	Board	Identification	Built	Installed	Stamped
			No.				Yes/No
S3-1204-ML-080	Pullman Inc.	N5 S3-1204-24	N/A		1978	Removed	Yes
6" Sch 40S Pipe	Tioga Pipe	Ht # 42262	N/A	ILN 10000026405	_	Installed	No
	Supply Co.	÷		SA-376-TP304 (note 1)			
6" Sch 40S Pipe	Consolidated	Ht # 045651	N/A	ILN 10000019514	_	Installed	No
	Pipe & Supply	•		SA-376-TP304 (note 1)			
6" Sch 40S Pipe	Tioga Pipe	Ht # 3F706	N/A	ILN 10000027815		Installed	No .
	Supply Co.			SA-376-TP304 (note 1)			
10"x6" BW Eccen.	Tioga Pipe	Ht # MVRK-1	N/A	ILN 10000027176	_	Installed	No
Reducer, Sch 40S	Supply Co.			SA-403-WP304 (note 2)			
6" Sch 40S, BW,	Tioga Pipe	Ht # MWHD-2	N/A	ILN 10000026395		Installed	No
90° elbows	Supply Co.	Ht # MWHD-3		SA-403-WP304 (note 2)	l		1
6" Sch 40S, BW,	Tioga Pipe	Ht # MWNG-2	N/A	ILN 10000027811	- J	Installed	No
90° elbows	Supply Co.			SA-403-WP304 (note 2)	11 .	. •	
6" Sch 40S, BW,	Consolidated	Ht # MQOW-2	N/A	ILN 10000019420	_	Installed	No
90° elbows	Pipe & Supply	•	}	SA-403-WP304 (note 2)	1	1.50	

7. Description of Work:

The existing schedule 10S piping shown on Iso Dwg S3-1204-ML-080, sht 3 was replaced with schedule 40S per NECP Order 000800516751. Replacement materials had Carbon content restricted to 0.03% max.

Note 1: Reference RoR 014-03 Note 2: Reference RoR-020-03

8. Tests Conducted: Hydrostatic:

Pneumatic: Nominal Operating Pressure: X Exempt:

Other:

See: NMO 800516800, Operation 0270

Pressure: 173 psig

Test Temp: N/A

Q	Rema	rke	None.
7.	Kema	I AS.	LYUMC.

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: Koger Ablands for AB Meichler Supervising ASME Code Engineer Date: 5/5/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/3/10</u> to <u>12/27/10</u>, 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.

Commissions NB 13402 A. N. I CA2093
Inspector's Signature (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company	Date: 05/05/2011	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: 010-10, Rev 1

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

WO: 800550894, 800516739 (note 1)
800611068 (note 2)

4. Identification of System: 1204, ECCS system

Type Code Symbol Stamp: N/A

Authorization No: N/A

Isometric: S3-1204-ML-080, Sht 2 (ECN D0043212)

Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, summer 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
S3-1204-ML-080	Pullman Inc.	N5 S3-1204-24	N/A		1978	Removed	Yes
6" Sch 40S Pipe	Tioga Pipe Supply Co.	Ht # 42262	N/A	ILN 10000026405 SA-376-TP304 (note 3)	_	Installed	No
6" Sch 40S, 90° elbows (2 each)	Tioga Pipe Supply Co.	Ht # MWHD-2	N/A	ILN 10000026395 SA-403-WP304 (note 4)	_	Installed	No

7. Description of Work:

The existing schedule 10S piping shown on Iso Dwg S3-1204-ML-080, sht 2 was replaced with schedule 40S per NECP Order 000800516751. Carbon content of replacement materials was restricted to 0.03% max.

Note 1: Scope includes material verification and pre-fabrication of pipe spools. Performed by Edison Construction Group.

Note 2: Scope includes piping installation field welds. Performed by contractor (WSI). See WSI Traveler 205913-TR-325-04 & WSI NCR 10-266.

Note 3: Reference RoR 014-03 Note 4: Reference RoR-020-03

8. Tests Conducted: Hydrostatic:	Pneumatic:	Nominal Opera	ating Pressure: X	Exempt:	Other:
See: NMO 800516739, Operation 0375	Pressure:	<u>173</u> psig	Test Temp:	<u>\\/A</u> °F	

9. Remarks: No.	ne.
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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

for AB Meich/Er Supervising ASME Code Engineer Date:

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 9/3/10 to 12/27/10, 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.

MAZMa	Commissions NB 13402 A, N, I CA2093
Inspector's Signature	(National Board, State, Province, and Endorsements)

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: 05/04/2011

Unit: 3

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 010-10, Rev 1

WO: 800550894, 800516738 (note 1)

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

800611068 (note 2)

4. Identification of System: 1204, ECCS system

Authorization No:

Type Code Symbol Stamp: N/A N/A

Isometric: S3-1204-ML-080, Sht 1 (ECN D0043211)

Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda

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

6. Identification of Components:

			,				
						Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Stamped
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Yes/No
S3-1204-ML-080	Pullman Inc.	N5 S3-1204-24	N/A		1978	Removed	Yes
6" Sch 40S Pipe	Tioga Pipe	Ht # 42262	N/A	ILN 10000026405	-	Installed	No
	Supply Co.			SA-376-TP304 (note 3)			
6" Sch 40S Pipe	Consolidated	Ht # 045651	N/A	ILN 10000019514	<u>, </u>	Installed	No
	Pipe & Supply		5 mil + 1, + *	SA-376-TP304 (note 3)			
6" Sch 40S, 90°	Tioga Pipe	Ht # MWHD-2 (6)	N/A	ILN 10000026395		Installed	No
elbows (10 each)	Supply Co.	Ht # MWHD-3 (4)		SA-403-WP304 (note 4)			
6" Sch 40S, BW,	Tioga Pipe	Ht # MWHD-1	N/A	ILN 10000026399	-	Installed	No
45° elbows (2 each)	Supply Co.	Ht # MWHD-2		SA-403-WP304 (note 4)			
6" Sch 40S, BW,	Tioga Pipe	Ht # MWHD-1	N/A	ILN 10000026399		Installed	No
45° elbows (2 each)	Supply Co.	Ht # MWHD-2		SA-403-WP304 (note 4)			
6" Sch 40S, BW,	Tioga Pipe	Ht # MWNG-3	N/A	ILN 10000027171		Installed	No
Tees (2 each)	Supply Co.	Ht # MWNG-3		ILN 10000027173			
				SA-403-WP304 (note 4)	<u>'</u>		
6" Sch 40S, BW,	Tioga Pipe	Ht # MMLQ-2	N/A	ILN 10000026400		Installed	No
Reducing Tee	Supply Co.			SA-403-WP304 (note 4)	<u>[</u>	1117	
6"x4", Sch 40S,	Tioga Pipe	Ht # MMLQ-1	N/A	ILN 10000026401		Installed	No
BW, Reducer	Supply Co.	`		SA-403-WP304 (note 4)			

7. Description of Work:

The existing schedule 10S piping shown on Iso Dwg S3-1204-ML-080, sht 1 was replaced with schedule 40S per NECP Order 000800516751. Carbon content of replacement materials was restricted to 0.03% max.

Note 1: Scope includes material verification and pre-fabrication of pipe spools. Performed by Edison Construction Group. Note 2: Scope includes piping installation field welds. Performed by contractor (WSI). See WSI Traveler 205913-TR-325-04 & WSI NCR 10-265

Note 3: Reference RoR 014-03 Note 4: Reference RoR-020-03

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

See: NMO 800516738, Operation 0340 Pressure: 173 psig Test Temp: N/A

٥	Rem	arker	None.
Э.	Rem	Lill No.	INOHE.

(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: Ragent Holmen for ABMeichlersupervising ASME Code Engineer Date: 5/5/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>4/3/10</u> to <u>12/27/10</u>, 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.

MAZUL	Commissions NB 13402 A, N, I CA2093
Inspector's Signature	(National Board, State, Province, and Endorsements)

Date 5/6/11

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: 05/05/2011

Unit: 3

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 013-10

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800550894, 800516738

4. Identification of System: 1204, ECCS system

Type Code Symbol Stamp: N/A

Authorization No:

N/A

Isometric: S3-1204-ML-180, Sht 1 (ECN D0033613, PIC D00415741)

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, summer 1974 Addenda 5. (a)

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
S3-1204-ML-180	Pullman Inc.	N5 S3-1204-24	N/A	*	1978	Removed	Yes
2-1/2" Sch 40S Pipe	Tioga Pipe Supply Co.	Ht # 504054	N/A	ILN 10000026407 SA-376-TP304 (note 1)	_	Installed	No
2-1/2" Sch 40S, BW, 90° elbow	Tioga Pipe Supply Co.	Ht # MTLU-1	N/A	ILN 10000023711 SA-403-WP304 (note 2)		Installed	No
2-1/2" 300# WNRF Flange, Sch 40S	Energy & Process Corp.	Ht # 3750ANE	N/A	ILN 10000030151 SA-182 F304 (note 3)		Installed	No

7. Description of Work:

The existing schedule 10S piping shown on Iso Dwg S3-1204-ML-180, sht 1 was replaced with schedule 40S per NECP Order 000800516751. Replacement materials had Carbon content restricted to 0.03% max.

Note 1: Reference RoR 014-03 Note 2: Reference RoR-020-03 Note 3: Reference RoR-011-03

8. Tests Conducted: Hydrostatic:	Pneumatic:	Nominal Oper	rating Pressure:	X_ Exe	mpt:	Other:
See: NMO 800516738, Operation 0340	Pressure:	<u>173</u> psig	Test Temp:	N/A	°F	

9. Remarks: RoR-002-03 reconciles the replacement stud material which is certified to ASME III, Class 2, 1971 Edition, no add and 1989 Edition respectively.
(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: July Star Mi Meichler Supervising ASME Code Engineer Date: 12/15/10 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>5/3/10</u> to <u>10/11/10</u> , 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 NB13402-1 (AZO93 California (National Board, State, Province, and Endorsements)
Date 41.91.

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southe. Address: 2244		dison Company Avenue, Rosemead,	CA 91770	0	Date: 10/18/20	10		Sheet 1 of	
				_	Unit: C				
2. Plant: San Onoi Address: P.O. E		nerating Station Temente, CA 92672	-0128		Repair/Replacement Plan: GEN-266				
		n California Edison (Avenue, Rosemead,)	WO : 80049464	6			
4. Identification of					Type Code Syn Authorization I Expiration Date	No:	p: N/A N/A N/A		
5. (a) Applicable	Construction	Code: ASME Section	on III, Cla	ss 2, 1974	Edition, S. '74 a	ddenda			
(b) Applicable	Edition of Sec	ction XI Utilized for	r Repair/F	Replacem	ent Activity: 199	5 Edition;	1996 Addenda	3	
6. Identification of	Components:				in the control of the state of	e y			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Id	Other lentification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No	
(15) 1-3/8"- 8UN(3A) x 36" long all-thread material	NOVA Machine Products Inc.	Heat # 72814, Heat Code "4S38"	N/A		10000027369 A193 gr. B7	N/A		No	
(12) 1-3/8"- 8UN(3A) x 36" long all-thread material	Mackson Inc.	Heat #11503850, Heat Code "AQG"	N/A		0-0521-05-00 A193 gr. B7	N/A		No	
7. Description of Wo (80) spare replacement GEN-266 Rev.0. This stud lengths of approximate trace code, mater	at inlet studs for fabrication pro timately 9-5/8"	ocess involved cutting and machining per certal code, and work	ng the (27) detail 5 of order num	pieces of drawing S	36" long all-threa	id (heat #s	72814 and 11.	503850) to	
						<i>.</i> ;	: . ;;		
8. Tests Conducted:	None Requir	ed							
	_								
	Pressure:	N/A psi	Test	Temp:	N/A	°F			

^	-	
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 Abland for ABMerchler Supervising ASME Code Engineer Date: 3/23/11 Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned holding a valid commissi	ion issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of California, and employ	yed by HSB-CT of Hartford, CT have inspected the components described in
halief the Owner's Report during the period	17-10 to 3-23-11, and state that to the best of my knowledge and
with the requirements of the ACMIT Co. 1. (1)	ons and taken corrective measures described in this Owner's Report in accordance
with the requirements of the ASME Code, S	ection XI.
examinations and corrective measures descri	ctor nor his employer makes any warranty, expressed or implied, concerning the ibed in this Owner's Report. Furthermore, neither the Inspector nor his employer al injury or property damage or a loss of any kind arising from or connected with
	Commissions NB12050 A, N, I CA1969
Inspectarly Clandres	OT A TO TO TO TO THE THE TO TH

Inspector's Signature

(National Board, State, Province, and Endorsements)

Date_

As Required by the Provisions of the ASME Code Section XI

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

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

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

4. Identification of System: 2101, Containment

NECP: 800072669, ASC's D0033431, D0036294, D0039615,

D0039871, D0040164 & D0042675

Specifications: SO23-617-10 (concrete), CS-C2 (nlacement), CO23

617-3-M27 (testing)

Dwgs: 20000 ECN A47942; 23027 Sh 2 ECN D0043783

Unit: 3

Repair/Replacement Plan: 3-COP-3054-127

WO: 800476249, 800476250, 800511055 **WP&IR:** 25221-003-C0P-3054-00127-000,

Note 1

Date: 2/1/2011

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

Prop' . P n Date:

N/A

Sheet 1 of 1

- 5. (a) Applicable Construction Code: None; Containment Building was designed per Bechtel Topical Report BC-TOP-5, Revision 1, December 1972 (ref UFSAR 3.8.1).
 - (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: Subsection IWL, 2001 Edition, 2003 Addenda

6. Identification of Components:

	Components.						*
Name of	Name of	Manufacturer	National	Other	Year	Corrected,	ASME
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Removed, or	Code
					<u> </u>	Installed	Stamped
Containment Bldg	Bechtel Corp.	N/A	N/A	S32101CS001	1982	(see block 7)	No
Concrete, 149 CY	Catalina Pacific	N/A	N/A	See Note 2	N/A	Installed	No
Concrete, 3 CY	Catalina Pacific	N/A	N/A	See Note 3	N/A	Installed	No
Grout	Five Star Products,	Lot # 1491700540	N/A	ILN 10000022971	N/A	Installed	No
	Inc.			See Note 4			

7. Description of Work:

A temporary construction opening approximately 26' X 28' in size was cut in the containment building to provide an opening for removing the original steam generators and installing new replacement steam generators. This work scope includes only the replacement concrete portion of the construction opening. Other items (rebar, tendons, liner plate, etc.) are documented on separate NIS-2 forms. Approximately 149 cubic yards of concrete were placed in restoration of the construction opening. Three additional cubic yards and some grout were placed subsequent to the initial pour to repair voids (reference Bechtel NCR 25221-003-G61-GCX-00126). Visual examinations of the repaired concrete area were performed in accordance with ASME XI, IWL-5250 and work order 800511055. The visual examinations were performed prior to pressurization of the Containment Integrated Leak Rate Test (ILRT), while at test pressure and again after depressurization. The ILRT was performed in accordance with ASME XI, IWL-5000 and site procedure SO3-V-3.12. The ILRT was documented on the "Reactor Containment Building Integrated Leakage Rate Test Report" dated January 2011, prepared by ILRT Incorporated (ref. doc. no. ILRT-R-100308).

NOTES:

NOTE:

- I. The following change notices (WCN's) were issued against WP&IR 25221-003-C0P-3054-00127: 25221-003-C0N-3054-00127, 25221-003-C0N-3054-10127 & 25221-003-C0N-3054-20127
- 2. Concrete Test Samples, material placed on 12/16/2010, ILN's 890000008403, 890000008551, 890000008552, 890000008553
- 3. Concrete Test Samples, material placed on 12/20/2010, ILN 890000008451
- 4. Grout Testing, material placed on 12/30/2010, ILN 890000008602

8. Tests Conducted:	Hydrostatic:	Pneumatic: X Nominal Operating Pressure: Exempt:	Other:_
		Pressure: 53 psig Test Temp:	N/A °F

0	Remarks:	Mone
ν.	Nemangs:	INOUG.

(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

chlet-Supervising AS 198 A. Ergineer Date: 3/16/11 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 10-28-10 to 12-18-10, 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.

Commissions NB 12050 A, N, I CA1969 Inspector's Signature

(National Board, State, Province, and Endorsements)

3-22-11 Date

As Required by the Provisions of the ASME Code Section XI

 Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 				70	Date: 12/17/201	0		Sheet 1 o.
2 Pl 6 6 6	ar Mala o				Unit: 3			
2. Plant: San On Address: P.O.	Box 128, San Cle		' 2-0128		Repair/Replacement Plan: 3-C0P-3053-126, Rev			
3. Work Perform Address: 224	ed by: Southern (4 Walnut Grove A	California Edisor venue, Rosemea	n Company d, CA 917	, 770	WO: 800476248 WP&IR: 25221-			02
4. Identification o	of System: 2101, C	Containment			Type Code Symb		•	
NECP 800072669, ASC's D0028172, D0033431, D0036294, D0039615 D0040164, D0039871 & D0042675 Dwgs: 23056 Sh 2, ECN D00042249				0039615,	Authorization No: N/A , Expiration Date: N/A			
Addenda		n XI Utilized fo	r Repair/i	Repla ce m	ent Activity: Subs	ection IV	VE, 2001 Editic	on, 2003
. Identification of	Components:		,	·		· · · · · · · · · · · · · · · · · · ·		
Name of	Name of	 Manufacturer	National		Other	Year	Corrected, Removed, or	ASME Code
Component	Manufacturer	Serial No.	Board No. 5.	į.	lentification	Built	Installed	Stamped Yes/No
	Į.							·
Containment Bldg.	Bechtel Power Corp.	N/A	N/A	· S3	2101CS001	1983		No
Containment Bldg. Containment Bldg. Liner Plate	Corp. Bechtel Power Corp.	N/A N/A	N/A N/A		2101CS001 5 Gr A, 1/4" thk	1983	(see block 7)	No No
Containment Bldg. Containment Bldg. Liner Plate Description of Wo	Corp. Bechtel Power Corp. ork:	N/A	N/A	SA-28	5 Gr A, 1/4" thk		(see block 7)	No
Containment Bldg. Containment Bldg. Liner Plate	Corp. Bechtel Power Corp. ork: tion opening approinal steam generate the construction opice with the original was performed on t	N/A eximately 27' wide ors and installing ening. During re al construction sy the liner plate sea	N/A le X 28' his new replacestoration opecification m weld.	SA-28. gh was cur cement ste of the line. i (SO23-2	5 Gr A, 1/4" thk t in the containmen eam generators. The r plate opening, the (05-05) and ASME ox testing was also	t buildin his work welding III, Div.	g to provide an scope includes of and NDE were 2, 2001 Ed., 20ed on the seam v	opening only the composition of
Containment Bldg. Liner Plate Description of Westemporary constructor removing the originary plate portion of the formed in accordant MT examination work with the statement of the statement o	Corp. Bechtel Power Corp. ork: tion opening approinal steam generate the construction opince with the original was performed on the disconstruction code	N/A eximately 27' wide ening. During real construction space liner plate sea ILRT) was performed above, the vas erected per space.	N/A le X 28' his new replacestoration of the conficution of the conficution of the conficution wild. Vormed in accordance of the conficution was design w	gh was cur cement ste of the line in (SO23-2 Vacuum be ecordance	t in the containment of the cont	t building his work welding III, Div. performe VE-5221	g to provide an scope includes of and NDE were 2, 2001 Ed., 20 and site procedure.	No opening only the endorse SO3-ent Liner
Containment Bldg. Liner Plate Description of We temporary construct removing the originer plate portion of the formed in accordant MT examination wontainment Integrates 3.12. tes: 1. Regarding of Plate Design per the Code,	Corp. Bechtel Power Corp. ork: tion opening appronal steam generate the construction opince with the originary as performed on the deconstruction code. Construction code. The liner plate volumes are subsection, Editional deconstruction.	N/A eximately 27' wide ors and installing ening. During real construction space in the liner plate sea ILRT) was performance above, the vas erected per span and Addenda sean a	N/A de X 28' hi, new repla estoration of pecification m weld. Vormed in acceptation design was pecification specification specified in	sA-28. gh was curcement step of the line in (SO23-2) acuum be becordance in SO23-20 in	t in the containment of the cont	t building welding III, Div. performe VE-5221	g to provide an scope includes of and NDE were 2, 2001 Ed., 20ed on the seam wand site proceed P-1, "Containmentaterial and well	No opening only the endorse Solution Add. Adure Solution Address Solution S

NOTE:

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: 5/03/2011

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 800517039-0010

 Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 **WO:** 800567815

Unit: 3

4. Identification of System: 1219, Fuel Pool 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 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.	Nat'l Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
6" NPS ECCS Piping	N/A	N/A	N/A	S31219ML057	N/A		No
6" NPS sch 40s Pipe	Tioga Pipe Supply Co.	HT# 42262	N/A	ILN-10000026405 SA-376-TP304	1		No
6" NPS Sch 40s, 45° Elbow (1)	Tioga Pipe Supply Co.	HT# MFWL-1	N/A	ILN-10000023603 SA-403-WP304/304L	-		No
6" NPS Sch 40s, 45° Elbow (1)	Tioga Pipe Supply Co.	HT# MWNG-2 S/N: 2	N/A	ILN-10000027172 SA-403-TP304/304L	_		No
6" NPS Sch. 40S, 90° LR Elbow, BW (1)	Tioga Pipe Supply Co.	HT# MWHD-3 S/N: 2	N/A	ILN-10000026395 SA-403 WP304/304L	-		No

7. **Description of Work:** A portion of the 6" NPS ECCS gravity feed piping from the refueling storage tank were pre-fabricated for subsequent installation during the R3C16 outage. The replacement piping was changed from schedule 10S to schedule 40s per NECP 800542134. The welding and NDE were performed in accordance with weld records WR3-09-129 (PR), WR3-09-130(PS), WR3-10-019 (PK), WR3-10-020 (PL); and WR3-10-021 (PM). All of the welds were RT examined, methods and acceptance per NC-5111/5320, 1995 Edition, 1996 addenda.

References: S3-1219-ML-057, Sht. 3 (ECN D0042068) for specific weld locations.

Notes: 1. RoR-014-03 reconciles the replacement 6" pipe which was certified to 1998 Edition, 2000 addenda.

2. RoR-020-03 reconciles the replacement 6" elbows which were certified to the 1998 Edition, 2000 addenda.

8. Tests Conducted: N/A, pressure test to be conducted when installed

Date

(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 or Al Meiculer Supervising ASME Code Engineer Date: 5/3/2011 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 9/29/10 to 12/15/10, 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. Commissions NB13402-1 CA2093 California (National Board, State, Province, and Endorsements)

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: 5/05/2011 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: 014-10 Rev.1

 Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 WO: 800579807, 800571506

4. Identification of System: 1204, 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, 1974 Edition, Summer 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" NPS ECCS Piping	SCE	N/A	N/A	S31204ML080		Corrected	No
(2) 1"x 1½" x 2" Lug (S3-SI-080-H-035)	Dubose National Energy	Ht.#: 250714 Trace Code:37750	N/A	ILN-10000028114 SA240 Ty. 304/304L	1	Installed	No
(4) 1" x 1½" x 2" Lug (S3-SI-080-H-036)	Dubose National Energy	Ht.#: 250714 *** Trace Code:37750		'ILN-10000028114 SA240 Ty. 304/304L	_	Installed	No
(2) 1" x 1½" x 2" Lug (S3-SI-080-H-039)	Dubose National Energy	Ht.#: 250714 Trace Code:37750	N/A	ILN-10000028114 SA240 Ty. 304/304L	-	Installed	No
(4) 1" x 2" x 3" Lug (S3-SI-080-H-041)	Dubose National Energy	Ht.#: 250714 Trace Code:37750	N/A	ILN-10000028114 SA240 Ty. 304/304L	_	Installed	No
3" Sch.40s Pipe (S3-SI-080-H-050)	Tioga Pipe Supply Co. Inc	Ht.#: D061 S/N: 8738-1	N/A	ILN-10000028114 SA240 Ty. 304/304L	-	Installed	No

7. Description of Work: Installation of integral attachments to the newly installed 6"sch.40s ECCS piping on line S31204ML080 in accordance with NECP 800516572 by SCE Maintenance and Construction Services. The scope of this work order in support located in the aux. feedwater pump building only. The new lugs were cut from random lengths of bar stock material. All new materials are documented in NMO 800571506.

Pipe Support ID	Weld Record	NDE Report #
S3-SI-080-H-035	WR3-10-092	3PT-213-10
S3-SI-080-H-036	WR3-10-093	3PT-211-10
S3-SI-080-H-039	WR3-10-094	3PT-212-10
S3-SI-080-H-041	WR3-10-095	3PT-075-10
S3-SI-080-H-050	WR3-10-096	3PT-090-10

at the I have

Notes: 1. RoR-013-03 reconciles the lug material which was certified to 1998 Edition, 2000 addenda

2. RoR-014-03 reconciles the pipe material which was certified to 1998 Edition, 2000 addenda

8. Tests Conducted: None, not required for work scope

(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

For Al Meichler Supervising ASME Code Engineer Date: 5/6/2011

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 10/12/10 to 12/7/10, 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.

	WAZENe	Commissions	NB13402-1	CA2893	California	
	Inspector's Signature	(Nat	ional Board, State	e, Province, a	nd Endorsements)	
Date	5/6/11					

As Required by the Provisions of the ASME Code Section XI

	Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770			Date: 05/05/11		Sh	eet 1 of 1
Audress: 2244 v	Valliul Glove A	venue, Rosemeau, C	A 91770	Unit: 3			
2. Plant: San Onofr Address: P.O. B		erating Station emente, CA 92672-	0128	Repair/Replaceme	ent Plan	: 014-10 Rev.1	
3. Work Performed Address: 2244 V		California Edison C venue, Rosemead, C		WO: 800579808 /	800571	506	
4. Identification of				Type Code Symbo Authorization No Expiration Date:		o: N/A N/A N/A	
5. (a) Applicable	Construction (Code: ASME Section	on III, Clas	s 2, (NF) 1974 Edition, 'S' 1	974 Ad	denda	
(b) Applicable	Edition of Sec	tion XI Utilized for	· Repair/R	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, Remòved, or Installed	ASME Code Stamped Yes/No
10" Sch. 10 Pipe Spool	Bechtel Corp.	N5 / SN S3-1219- 4	N/A	S3-1219-ML-107	78	Modified	No
Pipe Support S3-FS-107-H-001	Dubose National	Heat # 40187	N/A	ILN # 10000022302 '4" NPS, Sch. 40 / SA376 TP304	N/A	Installed	No
Pipe Support S3-FS-107-H-006	Dubose National	Heat # 40187	N/A	ILN # 10000023302 4" NPS, Sch. 40 / SA376 TP304	N/A	Installed	No
Pipe Support S3-FS-107-H-007	Consolidated Pipe	Heat # 045651	N/A	ILN # 100000192461 4" NPS, Sch. 40 / SA376 TP304	N/A	Installed	No
Pipe Support S3-FS-107-H-009	Dubose National	Heat # 40187	N/A	ILN # 10000022302 4" NPS, Sch. 40 / SA376 TP304	N/A	nstalled	No
pipe support dum that are NF. All N Weld Record Nur WR3-10-101 WR3-10-103 WR3-10-104 WR3-10-105 References RRP (my stubs. The 4 IDE examinatio nbers F	" NPS schedule 40	pipe stubs on all weld	S3-1219-ML-107, it was also are welded to the replacements in accordance with the well	require	g, based on the	
8. Tests Conducted	l: Hydrostatic	: Pneumatic	: No	minal Operating Pressure:	E	xempt: (Other:
	See:	Pressu	re: 1	175 nsi Test	Temn	N/A	٥F

(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: Supervising ASME Code Engineer Date: 05/06/1/ 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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>roftz/to</u> to <u>tz/17/to</u>, 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.

	WHELLA	Commissions	NB13402-1	CA2093	California
	Inspector's Signature O				, and Endorsements)
Date	5/6/11				

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: 05/05/11 Sheet 1			
2	 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 				Unit: 3 Repair/Replaceme	Unit: 3 Repair/Replacement Plan: 014-10 Rev. 1			
3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				WO: 800579808 /	800571	506			
Type Code Symbol Stamp: N/A 4. Identification of System: 1219 Fuel Pool Cooling System Authorization No: N/A Expiration Date: N/A									
	.,	Edition of Sec		·	s 2 , (NF) 1974 Edition 'S' 19				
	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	
ľ	10" Sch. 10 Pipe Spool	Bechtel	N5 / SN S3-1219- 4		S3-1219-ML-107	78	Modified	No	
	Pipe Support S3-FS-107-H-005	Dubose National	Heat # 250714	N/A	ILN # 10000028114 1"x2" Lugs / SA240 Gr.304	N/A	Installed	No	
	Pipe Support S3-FS-107-H- 001.006.007.009	N/A	N/A	N/A	S3-1219-ML-107 dummy stub to end plate welds	N/A	Reinstalled	No	

7. Description of Work: During the replacement of line number S3-1219-ML-107, it was also required to replace the lungs and reinstall the dummy stub to end plates, along with the rear bracket end plates. These are NF designed pipe supports that required material replacement and welding. All NDE examinations were performed on all welds in accordance with the weld record.

N/A

S3-1291-ML-107

rear bracket to end plate

weld

N/A

Reinstalled

100

No

Weld Record Numbers

N/A

Pipe Support Numbers

N/A

WR3-10-102

Pipe Support

S3-FS-107-H-

001,006,007,009

S3-FS-107-H-005

WR3-10-106

S3-FS-107-H-001, 006, 007, 009

WR3-10-107

S3-FS-107-H-001, 006, 007, 009

Reference: RRP 014-10 Rev. 1 NECP 800516572

8.	Tests Conducted:	Hydrostatic:	Pneumatic:	Nominal Operating Pressure:		ssure:	Exempt:	Other:
		See:	_ Pressure:	175	psi	Test Temp	o:N/A	°F

Q	Rem	arke	None.
7.	ULIN	arks:	NONE.

Signed:

(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

Supervising ASME Code Engineer Date:

CERTIFICATE OF INSERVICE INSPECTION

Designee, Title

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>10/12/10</u> to <u>12/17/10</u>, 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.

	WAZEMa	Commissions	NB13402-1	CA2093	California
	Inspector's Signature		(National Board,	State, Province,	and Endorsements)
Date	5/6/0				

As Required by the Provisions of the ASME Code Section XI

2. Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 4. Identification of System: 1204, Safety Injection System 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda with NDE per 1995 Edition, 1996 addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of	1. Owner: Southern Ca Address: 2244 Waln				Date: 4/13/2011 Sheet 1			eet 1 of 1	
Address: P.O. Box 128, San Clemente, CA 92672-0128 Repair/Replacement Plan: 8003 16868-0010 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: 1204, 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, 1974 Edition, Summer 1974 Addenda with NDE per 1995 Edition, 1996 addenda. (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Stamped Yes/No. Line S3-1204-ML-001 Pullman Kellogy N-4726 N/A spool 3-SI-001-009 1978 Corrected Yes/No. 14'-6' long Corp. 24" NPS sch 40S Pipe, Energy & Process HT# #483832 N/A ID-1-100000118205 - Installed No. 14'-6' long Corp. 24" NPS sch 40S, 90° Energy & Process SN: 9402-1-1 N/A ILN-10000021362 2010 Installed No. Elbow, BW Corp. Ht#3041_WOW001 5-1, Sa403 TP304/304L 1. Installed No. 25/38' round, 2" long Dubose National HT# \$7842 N/A ILN-10000022154 - Installed No. Scholar Pipet Servy Serv., Inc. Ht#2 245637 N/A ILN-100000202154 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020305 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020903 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020903 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020903 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020903 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020903 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020903 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020903 - Installed No. Scholar Pipet Servy Serv., Inc. Trace #37819 N/A ILN-10000020903 - In					Unit: 3				
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 4. Identification of System: 1204, 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, 1974 Edition, Summer 1974 Addenda with NDE per 1995 Edition, 1996 addenda (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Manufacturer National Other Year Removed, or Code Code Code Code Code Code Code Code					Repair/Replacement Plan: 800516868-0010				
4. Identification of System: 1204, Safety Injection System Expiration Date: N/A 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda with NDE per 1995 Edition, 1996 addenda. (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Built Installed Stamped Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-4726 N/A spool 3-SI-001-009 1978 Corrected Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A II.N-100000118205 - Installed No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A II.N-100000118205 - Installed No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A II.N-100000118205 - Installed No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A II.N-10000021352 2010 Installed Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A II.N-10000021554 - Installed No. Pipet Energy Serv. Inc. Hit# 245637 SA182 F304/304L - Installed No. Pipet Energy Serv. Inc. Hit# 245637 SA182 F304/304L - Installed No. SA182 F304/304L - Installed No. SA240 gr. 304/304L - Installed No. SA240 gr. 304/304L - Installed No. Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L - Installed No. Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L - Installed No. Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L - Installed No. Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L - Installed No. Energy Serv. Inc. Trace #: 37810 SA240 gr. 304/304L - Installed No. Energy Serv. Inc. Trace #: 37810 SA240 gr.					WO: 800583669, 800	611066	, 800613538		
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda 6. Identification of Components: Name of Name of Manufacturer Serial No. Board No. Identification Stamped Year Removed, or Code Component Component Manufacturer Serial No. Board No. Identification Stamped Year Removed, or Code Stamped Year No.	4. Identification of System: 1204, Safety Injection System				Authorization No:	•			
6. Identification of Components: Name of Name of Name of Component Serial No. National National Potentification National National Potentification National National Potentification National National Potentification National P	5. (a) Applicable Co				Edition, Summer 1974	Addenda	ı with NDE pe	r	
Name of Components	(b) Applicable Ed				nt Activity: 1995 Editie	on: 100/	S Addenda		
Name of Component Name of Component Serial No. Board No. Identification Paul Removed, or Code Component Manufacturer Serial No. Board No. Identification Paul Removed, or Code Yes/No Code Sa-1204-ML-001 Pullman Kellogg N-4726 N/A spool 3-SI-001-009 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-019 1978 Corrected Yes 24" NPS sch 40S Pipe, Energy & Process Fifth State Sa-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-019 1978 Corrected Yes 24" NPS sch 40S Pipe, Energy & Process SiN: 9402-11 N/A ILN-100000118205 - Installed No I4'-6" long Corp. SA312 TP304/304L Sa-1204-ML-001 Pullman Kellogg N-7284 N/A ILN-10000021362 2010 Installed Yes Elbow, BW Corp. Ht# 304L-WOIW001 N/A ILN-10000021362 2010 Installed Yes Pipet Energy Serv. Inc. Ht.# 242637 SA182 F304/304L Installed No Pipet Energy Serv. Inc. Ht.# 245637 SA182 F304/304L Installed No Salid Plue Energy Serv. Inc. Ht.# 245637 SA182 F304/304L Installed No Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Installed No Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Installed No Representation of the pipe spool was performed by SCE Maintenance and Construction Services and the installation of the pipe spool was performed by Welding Services Inc. (WSI) was contracted to perform the piping installation in accordance with WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed by SCE under NMO 800583669 and WSI per Travelers 205913-TR 001, 205913-TR-325	•		Othized for Repair?	ксрассте	in Activity. 1775 Edition	JII, 1770	Addenda		
Name of Component Name of Manufacturer Serial No. Board No. Identification Built Installed Stamped Stamped Line S3-1204-ML-001 Pullman Kellogg N-4726 N/A spool 3-SI-001-009 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A Spool 3-SI-001-013 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A Spool 3-SI-001-013 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A ILN-100000118205 - Installed No Corp. Ht# 304L-WOIW001 N/A SA4312 TP304/304L Pullman Kellogg N-7284 N/A ILN-10000021362 2010 Installed Yes Elbow, BW Corp. Ht# 304L-WOIW001 N/A SA403 TP304/304L Pullman Kellog No Dubose National Ht# 4822ANA N/A ILN-10000021362 2010 Installed No Energy Serv Inc. Ht# 245637 SA182 F304/304L SA182 F304/304L Pullman Kellog No Energy Serv Inc. Ht# 57842 N/A ILN-1000002035 - Installed No Energy Serv Inc. Trace #: 37819 SA240 gr. 304/304L Energy Serv Inc. Trace #: 37819 SA240 gr. 304/304L Pullman Kellog No SA240 gr. 304/304L Pullm	6. Identification of Co	mponents:			г				
Component Manufacturer Serial No. Board No. Identification Built Installed Stamped Yes/No. Line S3-1204-ML-001 Pullman Kellogg N-4726 N/A spool 3-SI-001-009 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes 24" NPS sch 40S Pipe. Energy & Process HT# 483832 N/A ILN-100000118205 - Installed No 14'-6" long Corp. SA312 TP304/304L 21" NPS sch 40S, 90" Energy & Process S/N: 9402-1-1 N/A ILN-10000021362 2010 Installed Yes Elbow, BW Corp. Ht# 304L-WOIW01 No. SA403 TP304/304L 2" NPS 3000# SW Dubose National Ht# 4822ANA N/A ILN-10000022154 - Installed No Pipet Energy Serv., Inc. Ht.# 245637 SA479 Tv 304/304L Energy Serv., Inc. Ht.# 245637 SA479 Tv 304/304L Energy Serv., Inc. Solid plue Energy Serv., Inc. Trace #: 37819 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37819 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37819 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37819 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37819 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37819 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv., Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Trace #: 37820 SA240 gr. 304/304L Energy Serv. Inc. Energy Serv. Inc. Sa240 gr. 304	Nama af	Nome of	Manufaatuman	Nusia and	Other	V			
Line S3-1204-ML-001 Pullman Kellogg N-4726 N/A spool 3-SI-001-009 1978 Corrected Yes Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes 24" NPS sch 40S Pipe. Energy & Process HT# 483832 N/A IL.N-100000118205 - Installed No 14' - 6" long Corp. 24" NPS sch 40S Opper Energy & Process HT# 483832 N/A IL.N-10000021305 - Installed No Elbow, BW Corp. HT# 304L-WO[W00] N/A IL.N-10000021362 2010 Installed Yes Elbow, BW Corp. HT# 304L-WO[W00] N/A IL.N-1000002154 - Installed No Pipet Energy Serv. Inc. Ht# 322ANA N/A IL.N-10000022154 - Installed No Sal82 F304/304L Solid Plug Energy Serv. Inc. Ht.# 245637 SAl82 F304/304L Installed No Energy Serv. Inc. Ht.# 57842 N/A IL.N-10000022055 - Installed No Energy Serv. Inc. Trace #: 37819 SA240 gr. 304/304L NO		1							
Line S3-1204-ML-001 Pullman Kellogg N-7284 N/A spool 3-SI-001-013 1978 Corrected Yes 24" NPS sch 40S Pipe, Energy & Process IT# 483832 N/A ILN-100000118205 - Installed No SA312 TP304/304L 24" NPS sch 40S, 90° Energy & Process S/N: 9402-1-1 N/A ILN-10000021362 2010 Installed Yes Elbow, BW Corp. Ht# 304L-WO[W00] N/A SA403 TP304/304L 2010 Installed Yes Pipet Energy Serv., Inc. Ht# 245637 SA182 F304/304L Installed No Solid plug Energy Serv., Inc. Ht.# 245637 SA182 F304/304L Installed No Solid plug Energy Serv., Inc. Ht# 57842 N/A ILN-10000026751 - Installed No SA479 Tv 304/304L SA79 Tv 304/304L Installed No SA79 Tv 304/304L SA79 Tv	Component			2011101	100111111111111111111111111111111111111	Duni	1113141104		
24" NPS sch 40S Pipe, 14" - 6" long Corp. 24" NPS sch 40S, 90" Energy & Process S/N: 9402-1-1 SA312 TP304/304L 24" NPS sch 40S, 90" Energy & Process S/N: 9402-1-1 N/A ILN-10000021362 2010 Installed Yes Elbow, BW Corp. Ht# 304L-WOIW001 3-3 SA403 TP304/304L 2" NPS 3000# SW Dubose National Ht# 4822ANA N/A ILN-10000022154 - Installed No Pipet Energy Serv Inc. Ht.# 245637 SA403 TP304/304L 2-3/8" round, 2" long solid plug Energy Serv Inc. Ht.# 245637 N/A ILN-10000022035 - Installed No Energy Serv Inc. Trace #: 37819 SA403 TP 304/304L (3) Lug, 2" x 876 x 876" Dubose National Energy Serv Inc. Trace #: 37819 SA240 gr. 304/304L (4) Lug, 3" x 876 x 876" Dubose National Energy Serv Inc. Trace #: 37820 SA240 gr. 304/304L 7. Description of Work: An approx. 20' length of 24" sch. 10s pipe was replaced with schedule 40s pipe in accordance with NECP 800500099 to correct a through-wall leak on line S3-1204-ML-001. Fabrication of the pipe spool. was performed by SCE Maintenance and Construction Services and the installation of the pipe spool was performed by Welding Services Inc. (WSI) was contracted to perform the piping installation in accordance with WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed by SCE under NMO 800583669 and WSI per Travelers 205913-TR 301, 205913-TR-325 (piping), and 205913-TR-326 (NF supports). A 2" branch connection was installed on the replacement pipe section to facilitate application of the argon gas purge for the girth welds. The 24" girth welds were RT examined. The branch connection, socket weld. and pipe lug attachment welds were all PT examined. See supplemental page 2 for additional details.	Line S3-1204-ML-001	Pullman Kellogg	N-4726	N/A	spool 3-SI-001-009	1978	Corrected	Yes	
14' - 6" long Corp. SA312 TP304/304L 24" NPS sch 40S, 90° Energy & Process S/N: 9402-1-1 N/A ILN-10000021362 2010 Installed Yes Elbow, BW Corp. Ht# 304L-WOIW001 SA403 TP304/304L - Installed No Pipet Energy Serv Inc. Ht# 4822ANA N/A ILN-100002154 - Installed No SA182 F304/304L 2-3/8" round, 2" long Dubose National HT# 57842 N/A ILN-10000026751 - Installed No SA479 Tv 304/304L SA479 Tv 304/304L SA240 gr. 304/304L (3) Lug, 2" x 876 x 876" Dubose National HT#: 5849022 N/A ILN-10000029035 - Installed No Energy Serv Inc. Trace #: 37819 SA240 gr. 304/304L Installed No SA240 gr. 304/304L	Line S3-1204-ML-001	Pullman Kellogg	N-7284	N/A	spool 3-SI-001-013	1978	Corrected	Yes	
Elbow, BW Corp. Ht#304L-WOIW001 SA403 TP304/304L 2" NPS 3000# SW Dubose National Pipet Energy Serv Inc. Ht.# 4822ANA N/A ILN-10000022154 — Installed No SA182 F304/304L 2-3/8" round, 2" long Dubose National Energy Serv Inc. Ht.# 245637 SA473 TP304/304L (3) Lug, 2" x 87/6 x 87/6" Dubose National Energy Serv Inc. Trace #: 37819 SA240 gr. 304/304L (4) Lug, 3" x 87/6 x 87/6" Dubose National Energy Serv Inc. Trace #: 37819 SA240 gr. 304/304L (4) Lug, 3" x 87/6 x 87/6" Dubose National Energy Serv Inc. Trace #: 37820 SA240 gr. 304/304L 7. Description of Work: An approx. 20' length of 24" sch. 10s pipe was replaced with schedule 40s pipe in accordance with NECP 800500099 to correct a through-wall leak on line S3-1204-ML-001. Fabrication of the pipe spool, was performed by SCE Maintenance and Construction Services and the installation of the pipe spool was performed by Welding Services Inc. (WSI) was contracted to perform the piping installation in accordance with WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed by SCE under NMO 800583669 and WSI per Travelers 205913-TR 001, 205913-TR-325 (piping), and 205913-TR-326 (NF supports). A 2" branch connection was installed on the replacement pipe section to facilitate application of the argon gas purge for the girth welds. The 24" girth welds were RT examined. The branch connection, socket weld, and pipe lug attachment welds were all PT examined. See supplemental page 2 for additional details.	· ·		HT# 483832	N/A	l .	-	Installed	No	
2" NPS 3000# SW Pipet Energy Serv., Inc. Ht.# 4822ANA	į –					2010	Installed	Yes	
Pipet Energy Serv Inc. Ht.# 245637 SA182 F304/304L 2-3/8" round, 2" long Dubose National Solid plug Energy Serv Inc. HT#: 57842 N/A ILN-10000026751 - Installed No SA479 Tv 304/304L SA240 gr. 304/304L SA240		T					I and the d	N	
2-3/8" round, 2" long solid plug Energy Serv., Inc. (3) Lug, 2" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (3) Lug, 2" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (4) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (5) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (6) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (7) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (8) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (9) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (10) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (11) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (12) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (13) Lug, 2" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (14) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (15) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (16) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (17) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (17) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (17) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87/8 x 87/8" Dubose National Energy Serv., Inc. (18) Lug, 3" x 87	l e		§	N/A		-	Installed	No	
Solid plug Energy Serv., Inc. SA479 Tv 304/304L SA479 Tv 3				N/A		_	Installed	No	
(3) Lug, 2" x 87% x 87% Dubose National Energy Serv., Inc. Trace #: 37819 SA240 gr. 304/304L (4) Lug, 3" x 87% x 87% Dubose National Energy Serv., Inc. Trace #: 37819 SA240 gr. 304/304L 7. Description of Work: An approx. 20' length of 24" sch. 10s pipe was replaced with schedule 40s pipe in accordance with NECP 800500099 to correct a through-wall leak on line S3-1204-ML-001. Fabrication of the pipe spool, was performed by SCE Maintenance and Construction Services and the installation of the pipe spool was performed by Welding Services Inc. (WSI) was contracted to perform the piping installation in accordance with WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed by SCE under NMO 800583669 and WSI per Travelers 205913-TR 001, 205913-TR-325 (piping), and 205913-TR-326 (NF supports). A 2" branch connection was installed on the replacement pipe section to facilitate application of the argon gas purge for the girth welds. The 24" girth welds were RT examined. The branch connection, socket weld, and pipe lug attachment welds were all PT examined. See supplemental page 2 for additional details.	•	i e		1 "". 1	1		Instance	1.0	
(4) Lug, 3" x 87/6 x 87/6" Dubose National Energy Serv Inc Trace #::37820 N/A ILN-10000029036 - Installed No SA240 gr. 304/304L		Dubose National	HT#: 5849022	N/A		_	Installed	No	
Energy Serv Inc. Trace #::37820 SA240 gr, 304/304L 7. Description of Work: An approx. 20' length of 24" sch. 10s pipe was replaced with schedule 40s pipe in accordance with NECP 800500099 to correct a through-wall leak on line S3-1204-ML-001. Fabrication of the pipe spool, was performed by SCE Maintenance and Construction Services and the installation of the pipe spool was performed by Welding Services Inc. (WSI) was contracted to perform the piping installation in accordance with WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed by SCE under NMO 800583669 and WSI per Travelers 205913-TR 001, 205913-TR-325 (piping), and 205913-TR-326 (NF supports). A 2" branch connection was installed on the replacement pipe section to facilitate application of the argon gas purge for the girth welds. The 24" girth welds were RT examined. The branch connection, socket weld, and pipe lug attachment welds were all PT examined. See supplemental page 2 for additional details. 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: X Exempt: Other: Other:									
7. Description of Work: An approx. 20' length of 24" sch. 10s pipe was replaced with schedule 40s pipe in accordance with NECP 800500099 to correct a through-wall leak on line S3-1204-ML-001. Fabrication of the pipe spool, was performed by SCE Maintenance and Construction Services and the installation of the pipe spool was performed by Welding Services Inc. (WSI) was contracted to perform the piping installation in accordance with WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed by SCE under NMO 800583669 and WSI per Travelers 205913-TR 001, 205913-TR-325 (piping), and 205913-TR-326 (NF supports). A 2" branch connection was installed on the replacement pipe section to facilitate application of the argon gas purge for the girth welds. The 24" girth welds were RT examined. The branch connection, socket weld, and pipe lug attachment welds were all PT examined. See supplemental page 2 for additional details. 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:X Exempt: Other:	(4) Lug, 3" x 87/8 x 87/8"	1		N/A		-	Installed	No	
NECP 800500099 to correct a through-wall leak on line S3-1204-ML-001. Fabrication of the pipe spool, was performed by SCE Maintenance and Construction Services and the installation of the pipe spool was performed by Welding Services Inc. (WSI) was contracted to perform the piping installation in accordance with WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed by SCE under NMO 800583669 and WSI per Travelers 205913-TR 001, 205913-TR-325 (piping), and 205913-TR-326 (NF supports). A 2" branch connection was installed on the replacement pipe section to facilitate application of the argon gas purge for the girth welds. The 24" girth welds were RT examined. The branch connection, socket weld, and pipe lug attachment welds were all PT examined. See supplemental page 2 for additional details. 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:X Exempt: Other:	3	Energy Serv., Inc.	Trace #::37820	ł	SA240 gr. 304/304Li	- 4	1 1		
	7. Description of Work: An approx. 20' length of 24" sch. 10s pipe was replaced with schedule 40s pipe in accordance with NECP 800500099 to correct a through-wall leak on line S3-1204-ML-001. Fabrication of the pipe spool, was performed by SCE Maintenance and Construction Services and the installation of the pipe spool was performed by Welding Services Inc. (WSI) was contracted to perform the piping installation in accordance with WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed by SCE under NMO 800583669 and WSI per Travelers 205913-TR 001, 205913-TR-325 (piping), and 205913-TR-326 (NF supports). A 2" branch connection was installed on the replacement pipe section to facilitate application of the argon gas purge for the girth welds. The 24" girth welds were RT examined. The branch								
Pressure: RWST Level 95% Test Temp: N/A °F	8. Tests Conducted: H	lydrostatic: Pi	neumatic: Nomi	nal Operati	ing Pressure: X Ex	empt:_	Other:	_	
		Pressure: RW	ST Level 95%	Fest Temp:	N/A °F				

9. **Remarks:** The 24" pipe was certified to the 1980 Edition, S.'80 add, as allowed per RoR-001-09, The pipet and pipe plug were certified to the 1998 Edition, 2000 addenda as allowed per RoR-011-03 and RoR-024-03 respectively.

(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 Ster Al Meichler Supervising ASME Code Engineer Date: 5/2/2011

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford. CT</u> have inspected the components described in this Owner's Report during the period <u>10/6/10</u> to <u>1/6/10</u>, 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 NB13402-1 (A2093 California (National Board, State, Province, and Endorsements)

Date 5/3/11

Ref. Isometric Drawing S3-1204-ML-001 Sht. 1 and ECN D0035908 & PIC D0041664

WELD ID/TYPE	RWO & Work Order #	NDE Reports	PSE (N/A if not req'd.)
MG / 24" B.W.	Welding Services Inc.	3RT-392-10 3RT-409-10	N/A
	800611066	3RT-414-10	
MH / 24" B.W.	Welding Services Inc. 800611066	3RT-410-10 3RT-415-10	N/A
MJ / 24" BW (WR3-10-114)	SCE Maintenance & Constructions Services	3RT-306-10	PDI-UT Exam. PT Exam.
MK / 2" Branch (WR3-10-116)	SCE Maintenance & Constructions Services	3PT-208-10	N/A
ML / 24" B.W.	Welding Services Inc. 800611066	3RT-413-10 3RT-416-10	N/A
SD / 2" S.W.	Welding Services Inc. 800611066	205913-PT-SD-1	N/A

Ref. Pipe Support Drawing S3-SI-001-H-030 with ECN D0042607

WELD ID	RWO & Work Order #	NDE Reports	PSE (N/A if not req'd.)
LUG WELD SG	Welding Services Inc. 800613538	205913-РТ-Н030-1	N/A
LUG WELD SH	Welding Services Inc. 800613538	205913-PT-H030-1	N/A
LUG WELD SJ	Welding Services Inc. 800613538	205913-PT-H030-1	N/A

Ref. Pipe Support Drawing S3-SI-001-H-031 with ECN D0042608

WELD ID	RWO & Work Order #	NDE Reports	PSE (N/A if not req'd.)
LUG WELD SG	Welding Services Inc. 800613538	205913-PT-H031-1	_N/A
LUG WELD SH	Welding Services Inc. 800613538	205913-PT-H031-1	N/A
LUG WELD SJ	Welding Services Inc. 800613538	205913-PT-H031-1	N/A
LUG WELD SK	Welding Services Inc. 800613538	205913-PT-H031-I	N/A

As Required by the Provisions of the ASME Code Section XI

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		California Edison (alnut Grove Avenu	• •	A 01770	J	Date: 04/25/201	1	5	Sheet 1 of 1	
				4 91770	τ	Unit: 3				
		Nuclear Generatir x 128, San Clemen	-	128	I	Repair/Replacement Plan: 800591784-0017				
3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770					•	WO: 800591784				
4. Identification of System: Chemical & Volume Control System					A	Type Code Syml Authorization N Expiration Date	0:	p: N/A N/A N/A		
5. (a)	Applicable C	onstruction Code	: ASME Section	III, Class 2,	1971 E	dition, S. '73 ad	denda			
(b)	Applicable E	dition of Section 2	XI Utilized for I	Repair/Repla	icemen	t Activity: 1995	Edition;	1996 Addenda	ı	
6. Ident	ification of C	omponents:								
	ame of mponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Ic	Other dentification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No	
2" 1500#	# Globe Valve	Kerotest	MC8-20	N/A	S3	1208MU070	1976	Corrected	Yes	
E	Bonnet	Flowserve Corp.	Heat#: 72240 S/N: 235	N/A		SO-0784-07 479 type 316	N/A	Installed	No	
	Disc	Flowserve Corp.	S/N:ZFO-14	N/A		SO-2343-04 479 type 316	2004	Installed	Yes	
The 2" gl		k: nauled to correct se nd VT-2 examinati	_					on with the ove	rhaul.	
3. Tests (Conducted:]	Hydrostatic:	Pneumatic:	Nominal	Opera	nting Pressure:_	X_ Ex	empt:O	ther:	
	P	ressure: 2250	_psi Test	Temp:	N/A	°F				

NOTE:

9. Remarks: The replacement bonnet and disc were both certified to ASME, Class 1.

(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

For Almeichler

Supervising ASME Code Engineer Date: 4/25/11

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 _11/29/10 to _2/12/11 , 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.

WAZMA	Commissions	NB13402-1	CAZO93	California
Inspector's Signatur	-			and Endorsements)

Date 4/29/11

As Required by the Provisions of the ASME Code Section XI

	 Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 						Date: 01/18/11 Sheet Unit: 3			
2. Plant: San Onofre Nuclea Address: P.O. Box 128, S		•	-0128		Repair/Replacement Plan: 800592040-0010					
3. Work Performed by: So Address: 2244 Walnut G					WO: 800592040	0				
4. Identification of System:5. (a) Applicable Constru(b) Applicable Edition of System:	ction Cod	e: ASME Sec ASME Sec ASME Sec	ction III, Cla ction III, NC	ass 2, 19° C-5000, 1	Type Code Sym Authorization N Expiration Date 71 Edition, S. '73 74 Edition, S. '74 995 Edition, 199	No: e: addenda (addenda (6 addenda	N/A N/A (Valve) (Piping) (NDE)			
6. Identification of Compon		AT CHIECU IO	repaii/re	рисси	in ractivity. 199	o Luition,	1990 Addenda			
	ne of facturer	Manufacturer Serial No.	National Board No.	Id	Other lentification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No		
2" 1500# Globe Kere Valve	otest	CAQ12-2	N/A		1204MU068	1980	Removed	Yes		
	ve Corp.	16BMA	N/A		10000005086	2008	Installed	Yes		
1 ` '		Heat # 40095 Γrace # 33763	N/A		10000007912 A376 tp.316	N/A	Installed	No		
7. Description of Work: The 800597064 due to excessive se WR3-10-144, and WR3-10-14 A VT-2 Examination and Systems	eat leakage 5. All weld	The valve replets were radiogra	lacement want want described applicably ex	ns performannined p	med in accordanc	e with wel				
8. Tests Conducted: Hydro	static:	Pneumatic:_	Nomi	inal Ope	erating Pressure:	<u>X</u> Ex	cempt: O	ther:		
Pressure	e: <u>1457</u>	_psi Te	st Temp:	N/A	_°F					

NOTE:

9. Remarks: The pipe was certified to the 1998 Edition, 2000 addenda as allowed per RoR-014-03

(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: The Supervising ASME Code Engineer Date: 2/17/2011

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>10/30/10</u> to <u>2/10/11</u>, 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 NB13452-1 (A2093 California (National Board, State, Province, and Endorsements)

Date <u>4/27/11</u>

As Required by the Provisions of the ASME Code Section XI

	nern California Edi			Date: 2/25/2011		Sh	eet 1 of 1		
Address: 224	4 Walnut Grove Av	venue, Rosemead, C	A 91770	Unit: 3					
	nofre Nuclear Gene Box 128, San Cle	rating Station mente, CA 92672-0	0128	Repair/Replaceme	Repair/Replacement Plan: 800602362-0010				
3. Work Perform	WO: 800602362								
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 4. Identification of System: Safety Injection System			Type Code Symbo Authorization No Expiration Date:	_	p: N/A N/A N/A				
5. (a) Applical	ble Construction (Code: ASME Section	on III, Clas	s 1, 1971 Edition, Summer 1	973 add	enda			
(b) Applical	ble Edition of Sect	ion XI Utilized for	· Repair/R	eplacement 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" 2500# Control Valve	Haml-Dahl	74/5798/007	N/A	3HV9371	1977	Corrected	Yes		
Valve Plug	Flowserve Corp.	S/N: 1 Heat # 716445	N/A	RSO-0130-00 SA479-316 w/Stell.#6 HF	2000	Installed	Yes		
				71 was replaced in-kind durin med when returned to servic		aul of valve to c	orrect sea		
	€ ¥ ¹³	Billion of Comment	e.		2 -				
					,	er ja elik			
8. Tests Conduc	ted: Hydrostatic	: Pneumatic:	No	minal Operating Pressure:	<u>X</u> E	xempt: O	ther:		

_°F

Pressure: 2250 psi Test Temp: >280

NOTE:

Section XI.

(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,

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Al Meichler Supervising ASME Code Engineer Date: 2/25/11

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 11/8/10 to 2/13/11, 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.

\	MAZENA	Commissions	NB13462-1	(AZ093	California	
	Inspector's Signature	_	(National Board,	State, Province	, and Endorsements)	
Date	4/18/11					

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southe	rn California Ediso Walnut Grove Ave		CA 01770	Date: 01/12/20	11	S	heet 1 of		
			CA 91770	Unit: 3	Unit: 3				
2. Plant: San Ono Address: P.O. I	fre Nuclear Genera Box 128, San Clem	_	-0128	Repair/Replac	Repair/Replacement Plan: GEN-250 Rev. I				
. Work Performe Address: 2244	d by: Southern Ca Walnut Grove Aver			WO : 80060866	55				
. Identification of	System: Main Ste	am System		Type Code Syr Authorization Expiration Da	No:	p: N/A N/A N/A			
(a) Applicable	Construction Co	de: ASME Section	on III, Class	2-NF, 1974 Edition. S. '	74 addend	a			
(b) Applicable	Edition of Section	n XI Utilized for	r Repair/Re	eplacement Activity: 19	95 Edition;	1996 Addenda			
. 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		
							No		
ize 100-6 Snubber	Pacific Scientific	469	N/A	S3ST001H008	1978	Removed	180		
Size 100-6 Snubber Description of W	Basic-PSA Inc. ork: The mechanic	44278 cal snubber in pla	N/A ant function	S3ST001H008 ILN-10000018259 al location \$3.SBCS.S3S after installation of the re	2009 T001H008	Installed was replaced in	No		
	Basic-PSA Inc. ork: The mechanic	44278 cal snubber in pla examination was	N/A ant function performed	ILN-10000018259 al location \$3.SBCS.S3S	2009 T001H008	Installed was replaced in	No		
Size 100-6 Snubber Description of W	Basic-PSA Inc. ork: The mechanic ce action. A VT-3 of	44278 cal snubber in pla examination was	N/A ant function performed	ILN-10000018259 al location \$3.SBCS.S3S	2009 T001H008	Installed was replaced in	No		
Size 100-6 Snubber Description of W	Basic-PSA Inc. ork: The mechanic eaction. A VT-3 e	44278 cal snubber in placexamination was	N/A ant function performed	ILN-10000018259 al location \$3.SBCS.S3S	2009 T001H008 placement	Installed was replaced in snubber.	No		

9. Remarks: The replacement snubber w	as certified to ASME III, Class	1(NF), 1998 Edition, 2000 addenda.
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(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: Joy Sor Al Meichler Supervising ASME Code Engineer Date: 1/17/2011

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>11/17/10</u> to <u>12/16/10</u>, 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.

	WHICHE	Commissions	NB13402-1	CA2093	California	_
	Inspector's Signature		(National Board,	State, Province.	and Endorsements)	
Data	برارفان					

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				Date: 01/12			heet I of			
			C/C 31770	Unit: 3	Unit: 3 Repair/Replacement Plan: GEN-250 Rev. WO: 800610409					
2. Plant: San Ono Address: P.O. E	fre Nuclear Genera Box 128, San Clem		-0128	Repair/Rep						
3. Work Performe Address: 2244	d by: Southern Ca Walnut Grove Aver			WO: 800610						
4. Identification of System: Main Steam System				Type Code 9 Authorization Expiration I		p: N/A N/A N/A				
				s 2-NF, 1974 Edition, 9						
(b) Applicable	Edition of Section	n XI Utilized for	r Repair/R	eplacement 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			
10K - 6" Snubber	Pacific Scientific	17976	N/A	S3FW189H012	1991	Removed	No			
10K - 6" Snubber	Pacific Scientific	17987	N/A	RSO-0806-92	1992	Installed	No			
				after installation of the	•					
					1 ×	, i . , i				
Tests Conducted:	Hydrostatic:	Pneumatic:	Nomi	nal Operating Pressu	ıre: Exc	empt: Ot	her: <u>X</u>			
	Pressure: N	l/A psi	Test	Гетр: <u>N/A</u>	°F					

9. Remarks: The replacement snubber was certified to ASME III, Class 1(NF).

this inspection.

(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: Signed: Supervising ASME Code Engineer Date: 1/18/2011 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 <u>California</u> ; and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>Uf17/10</u> to <u>12/23/10</u> , 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 cigning this partificate neither the Inquesta would apply any parties and property approach or invalid approximately

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

	WAZELLA	_ Commissions	NB13402-1	(A2093	California
	Inspector's Signature		(National Board.	State. Province,	and Endorsements)
Date	4/19/11				

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: 5/04/2011 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: 800517039-0010

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

Type Code Symbol Stamp: N/A

WO: 800611067, 800613539

4. Identification of System: 1204, Safety Injection System

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

 $q_{ij} = q_{ij} + q$

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda 5. (a)

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" NPS ECCS Piping	Pullman Inc.	N-4135	N/A	spool 3-FS-057-030	1977	Corrected	Yes
6" NPS ECCS Piping	Trent Tube	Heat # 622501	N/A	spool 3-FS-057-035		Removed	No
6" NPS ECCS Piping	Pullman Inc.	N-3048	N/A	spool 3-FS-057-036	1977	Corrected	Yes
6" NPS ECCS Piping	Pullman Inc.	N-9115	` N/A	spool 3-FS-057-058	1978	Removed	Yes
6" NPS ECCS Piping	Pullman Inc.	N-8749	N/A	spool 3-FS-057-059	1978	Removed	Yes
6" NPS sch 40S Pipe	Tioga Pipe Supply Co.	HT# 42262	N/A	ILN-10000026405 SA-376-TP304	_	Installed	No
(4) 3" x 1" x 3/4" Pipe Lugs	Dubose National Energy	Ht.#: 250714 Trace Code:37750	N/A	ILN-10000028114 SA240 Ty. 304/304L	-	Installed	No

7. Description of Work: An approx. 50' section of 6" sch. 10s piping was replaced with schedule 40s pipe and fittings due to through wall boric acid leakage on line \$3-1219-ML-057 in accordance with NECP 800542134. The piping was pre-fabricated under NMO 800567815 by SCE Maintenance and Construction Services. Welding Services Inc. (WSI) was contracted to perform the installation of the pre-fabricated piping sub-assemblies in accordance with WSI's QA and welding programs, and SCE's ASME Section XI Program. The Section XI replacement activities were performed per WSI Travelers 205913-TR-001, 205913-TR-325, and 205913-TR-326. The welding and NDE were performed per WSI Weld Data Sheets PH, PN, PP, PQ, PU, PV for piping installation and S3-FS-057-H-022 Lugs for the (4) lug attachment welds.

Reference: Iso. drawing S3-1219-ML-0057, Sh 3 with ECN D0042068

Weld PH; 3RT-394-10 NDE Reports:

Weld PN; 3RT-367-10, Weld PN-R1-3RT-401-10

Weld PP; 3RT-368-10 Weld PO; 3RT-369-10 Weld PU; 3RT-393-10

Weld PV; 3RT-373-10, Weld PV-R1-3RT-400-10, Weld PV-R2-3RT-411-10

Welds SA, SB, SC, & SD; 205913-PT-H022-1

8.	Tests Conducted: Hydrostatic:_	Pneumatic:	Nominal Operati	ng Pressure	e:_X_Exemp	ot: Other:
	Pressure:	RWST Level 94%	Test Temp:	N/A	°F	

9. Remarks: RoR-014-03 reconciles the replacement 6" pipe which was certified to 1998 Edition, 2000 addenda

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

Expiration Date: N/A

I certify that the statements research XI.	nade in the report are correct and this conforms to the requirements of the ASME Code,
Type Code Symbol Stamp:	N/A

Certificate of Authorization No: N/A

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>11/26/10</u> to <u>1/16/11</u>, 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.

	WAZCHA	_ Commissions	NB13402-1	(AZ193	California
	Inspector's Signature		(National Board,	State, Province	, and Endorsements)
Date	5/5/11				

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

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2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

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

4. Identification of System: 1204, Safety Injection System

Date: 5/04/2011

Sheet 1 of 1

Unit: 3

Repair/Replacement Plan: 014-10 Rev.1

WO: 800611069

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, Summer 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" NPS ECCS Piping	SCE	N/A	N/A	S31204ML080		Corrected	No
(4) l" x 2" x 4" Lug (S3-SI-080-H-002)	Dubose National Energy	Ht.#: 250714 Trace Code:37750	N/A	ILN-10000028114 SA240 Ty. 304/304L	-	Installed	No
(2) 1" x 2" x 4" Lug (S3-SI-080-H-007)	Dubose National Energy	Ht.#: 250714 Trace Code:37750	·V·N/A ·	ILN-10000028114 SA240 Ty. 304/304L	_	Installed	No
(4) i" x 2" x 4" Lug (S3-SI-080-H-009)	Dubose National Energy	Ht.#: 250714 Trace Code:37750	N/A	ILN-10000028114 SA240 Ty. 304/304L	-	Installed	No
(2) 1" x 1½" x 3" Lug (S3-SI-080-H-010)	Dubose National Energy	Ht.#: 250832 Trace Code:37753	N/A	ILN-10000028115 SA240 Ty. 304/304L		Installed	No
(4) I" x 2" x 4" Lug (S3-SI-080-H-015)	Dubose National Energy	Ht.#: 250714 Trace Code:37750	N/A	ILN-10000028114 SA240 Ty. 304/304L	_	Installed	No

7. Description of Work: Installation of integral attachments to the newly installed 6"sch.40s ECCS piping on line S31204ML080 in accordance with NECP 800516572 by Welding Services Inc. (WSI). WSI was contracted to perform the installation of the integral attachments for the pipe supports listed below. All work was performed WSI's QA and welding programs and SCE's ASME Section XI Program. The Section XI replacement activities were performed per WSI Travelers 205913-TR-001 and 205913-TR-326. The welding and NDE were performed per WSI Weld Data Sheets listed below. The new lugs were cut from 12' lengths of bar stock material.

Weld Data Sheet	Weld Ids	NDE Report #
S3-SI-080-H-002 Lugs	SC-A, SC-B, SD-A, SD-B	205913-PT-H002-1
S3-SI-080-H-002 Structural	A & B	N/R
S3-SI-080-H-007 Lugs	SC-A, SC-B, SD-A, SD-B	205913-PT-H007-1
S3-SI-080-H-009 Lugs	SE-A, SE-B, SF-A, SF-B	205913-PT-H009-1
	SG-A, SG-B, SH-A, SH-B	
S3-SI-080-H-010 Lugs	SE-A, SE-B, SF-A, SF-B	205913-PT-H010-1
S3-SI-080-H-015 Lugs	SE-A, SE-B, SF-A, SF-B	205913-PT-H015-1
	SG-A, SG-B, SH-A, SH-B	

8. Tests Conducted: None, not required for work scope

CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and this conforms to the requirements of the AS	
I certify that the statements made in the report are correct and this conforms to the requirements of the AS	
Section XI.	SME Code,
Type Code Symbol Stamp: N/A	
Certificate of Authorization No: N/A Expiration Date: N/A	
Signed: Signed: Owner's Designee, Title Signed: Signed: Date: 5/5/2	?o/1
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel State or Province of <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the component this Owner's Report during the period <u>10/6/10</u> to <u>12/2/10</u> , and state that to the best of my knowled Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance requirements of the ASME Code, Section XI.	ents described in dge and belief, the
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from this inspection.	r nor his employer
Commissions NB13402-1 CAZO93 California	ì
Inspector's Signature Commissions N813402-1 C42093 California (National Board, State, Province, and Endorsem	nents)

As Required by the Provisions of the ASME Code Section XI

1. Owner: Souther		on Company)	Date: 01/18/2011			heet 1 of 1		
				٠	Unit: 3					
2. Plant: San Onoi Address: P.O. E	fre Nuclear Genera Box 128. San Clem		-0128		Repair/Replacement Plan: GEN-252 Rev.0					
3. Work Performe Address: 2244 V	d by: Southern Ca Walnut Grove Ave)	WO: 800612785					
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 Co	de: ASME Section	on III. Clas	ss 2-NF. 1	974 Edition, S. '74	addend	a			
(b) Applicable	Edition of Section	n XI Utilized for	r Repair/R	Replacemo	ent Activity: 1995	Edition;	1996 Addenda			
6. Identification of	Components:									
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	ld	Other entification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No		
10K - 6" Snubber	Pacific Scientific	2835	N/A	S3F	W190H011T	1977	Corrected	No		
Load Pin (1)	Basic PSA Inc	Ht. # A18592-3 Ht, Cd.: N4308	1 1		10000027095 Gr.630, H-1150	N/A	Installed	No		
7. Description of W process. A VT-3 exai		rmed of the reins	stalled snut			Γthat wa	s damaged duri	ng removal		
							,4 v			
Tests Conducted:	Hydrostatic:	Pneumatic:_	Nom	iinal Opei	rating Pressure:_	Exe	empt:Ot	her: <u>X</u>		
	Pressure: N	i/Δ nei	Toef	Temp	N/A °	F				
	i i cosui e,	<u>uz</u> [181	1 031	1 cmb.****	11//1					

8.

FORM NIS-2 (back)
9. Remarks: The replacement load pin was certified to ASME III, Class 1(NF), 1998 Edition, 2000 addenda as allowed per RoR-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: Meichler Supervising ASME Code Engineer Date: 1/18/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>u/(4/10</u> to <u>11/30/10</u> , 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.
Commissions NG13402-1 47093 California
Inspector's Signatur (National Board, State, Province, and Endorsements)

Date 4/27/11

As Required by the Provisions of the ASME Code Section XI

 Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue. Rosemead, CA 91770 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue. Rosemead, CA 91770 Identification of System: Main Steam System (a) Applicable Construction Code: ASME Section III. Class 2-NF, 1 (b) Applicable Edition of Section XI Utilized for Repair/Replacement 								
6. Identification of Components:								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Id	Other entification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped Yes/No
10K - 6" Snubber	Pacific Scientific	4345	N/A	S3F	W190H014B	1978	Corrected	No
Load Pin (1)	Basic PSA Inc	Ht. # A18592-3 Ht. Cd.: N4308	N/A		10000027095 Gr.630. H-1150	N/A	Installed	No
7. Description of W process. A VT-3 exam	nination was perfo		talled snul			3 that wa	s damaged duri	ng removal
8. Tests Conducted:	Hydrostatic: Pressure:N				rating Pressure: ^N/A°		mpt: Ot	her: <u>X</u>

FORM NIS-2 (back)

rottin into-2 (back)
9. Remarks: The replacement load pin was certified to ASME III, Class 1(NF), 1998 Edition, 2000 addenda as allowed per RoR-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: Signed: Supervising ASME Code Engineer Date: 1/18/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>11/14/10</u> to <u>12/30/10</u> , 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 NB13402-1 (A 2093 California (National Board, State, Province, and Endorsements)
Date4\27\11

As Required by the Provisions of the ASME Code Section XI

1. Owner: Souther Address: 2244	n California Ediso Walnut Grove Ave		Date: 01/18/2011 Sheet 1 o							
2. Plant: San Onot Address: P.O. E	îre Nuclear Genera Box 128, San Clem		-0128	Unit: 3 Repair/Replacer	Repair/Replacement Plan: GEN-252 Rev.0					
3. Work Performe Address: 2244 V	d by: Southern Ca Walnut Grove Ave		WO: 800612788							
4. Identification of	System: Main Ste	am System	Authorization N	Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A						
				s 2-NF, 1974 Edition. S. '74 eplacement Activity: 1995			,			
5. Identification of		i Ai Ottilzea 101	repair re	epiacement vettrij. 1772	·	·				
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			
35K - 6" Snubber	Pacific Scientific	3068	N/A	S3FW190H015	1978	Corrected	No			
Load Pin (1)	Basic PSA Inc	Ht. # G14516-4 JHt. Cd.: N4529	N/A	ILN-10000019146 SA564 Gr.630. H-1100	N/A	Installed	No			
rocess. A VT-3 exar	nination was perfo		stalled snub	S3.SBCS.S3FW.190H015 ber assembly		aamagea aarin	g removar			
						er je sak				
				inal Operating Pressure:		mpt: O	ther: <u>X</u>			

8.

EODM NIC 2 (book)

FORM NIS-2 (back)
9. Remarks: The replacement load pin was certified to ASME III, Class 1(NF), 1998 Edition, 2000 addenda as allowed per RoR-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: Supervising ASME Code Engineer Date: 1/18/2011 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>IIf(4) to</u> to <u>12/30/10</u> , 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 National Board, State, Province, and Endorsements)

Date 4/19/11

Address: 2244	rn California Edisc Walnut Grove Ave		Date: 01/18/201	1	S	heet I of			
	fre Nuclear Genera Box 128, San Clem		-0128	Unit: 3 Repair/Replace	Unit: 3 Repair/Replacement Plan: GEN-252 Rev.0				
Address: 2244	d by: Southern Ca Walnut Grove Ave System: Main Ste	nue. Rosemead. (Type Code Sym Authorization N	WO: 800612789 Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A					
	Edition of Section			s 2-NF, 1974 Edition, S. '7 eplacement Activity: 1995					
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stampe Yes/No		
10K - 6" Snubber	Pacific Scientific	11087	N/A	S3FW190H018N	1981	Corrected	No		
Load Pin (1)	Basic PSA Inc	Ht. # G7420-7 Ht. Cd.: N4203	N/A	RSO-2167-03 SA564 Gr.630, H-1075	N/A	Installed	No		
Description of W	ork: Replaced a lo		er assembli		N that we	ns damaged duri	ino		
		ad pin for snubb		(S3.SBCS.S3FW190H018 led snubber assembly	N that wa	is damaged duri	ing		

_psi

Pressure: N/A

Test Temp: N/A

FORM NIS-2 (back)

FORM MEAN
9. Remarks: The replacement load pin was certified to ASME III, Class 1(NF), 1986 Edition, no addenda as allowed per RoR-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: Signed: Date: 1/18/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>IL/19/10</u> to <u>IL/30/10</u> , 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 NB13402-1 (A2093 California (National Board, State, Province, and Endorsements)
Date 4/22/11

As Required by the Provisions of the ASME Code Section XI

=======================================									
1. Owner: Southe			CA 0177	Date: 01/18/201	I	S	heet I of		
Address: 2244	Walnut Grove Ave	mue, Rosemead,	CA 91//C	Unit: 3					
2. Plant: San Ono: Address: P.O. I	fre Nuclear Genera 3ox 128, San Clem		-0128	Repair/Replaces	Repair/Replacement Plan: GEN-252 Rev.0				
3. Work Performe Address: 2244	d by: Southern Ca Walnut Grove Ave			WO : 800612790	WO: 800612790				
4. Identification of				Type Code Symb Authorization N	Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A				
5. (a) Applicable	Construction Co	de: ASME Section	on III, Clas	ss 2-NF, 1974 Edition. S. '74	addend	a			
(b) Applicable	Edition of Section	n XI Utilized for	r Repair/F	Replacement Activity: 1995	Edition:	1996 Addenda			
6. Identification of	Components:								
			1		<u> </u>	Corrected,	ASME		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Code Stamped Yes/No		
10K - 6" Snubber	Pacific Scientific	11099	N/A	S3FW190H018S	1981	Corrected	No		
Load Pin (1)	Basic PSA Inc	Ht. # G7420-7 Ht. Cd.: N4203	N/A	RSO-2167-03 SA564 Gr.630. H-1075	N/A	Installed	No		
process. A VT-3 exai	nination was perro			ober assembly					
	Hydrostatic: Pressure:N			inal Operating Pressure:_ Temp:N/A°		mpt: Ot	her: <u>X</u>		

FORM NIS-2 (back)

FORM NIS-2 (Dack)
9. Remarks: The replacement load pin was certified to ASME III, Class 1(NF), 1986 Edition, no addenda as allowed per RoR-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: Signed: Supervising ASME Code Engineer Date: 1/18/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>U/19/10</u> to <u>12/36/10</u> , 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 NB13402-1 CA2093 California (National Board, State, Province, and Endorsements)
Date 4/22/11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 2. Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 T. Identification of System: Main Steam System E	Date: 01/12/2011 Unit: 3 Repair/Replacement WO: 800613420 Type Code Symbol Authorization No: Expiration Date:		ı: GEN-252 Re	heet 1 of v.0
 Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128 Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 Identification of System: Main Steam System 	Repair/Replacement WO: 800613420 Type Code Symbol Authorization No:			v.0
Address: P.O. Box 128, San Clemente, CA 92672-0128 3. Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 T. Identification of System: Main Steam System E.	WO: 800613420 Type Code Symbol Authorization No:			v.0
Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 T 4. Identification of System: Main Steam System E	Гуре Code Symbol Authorization No:	Stamj	n: N/A	
T. 4. Identification of System: Main Steam System A. E.	Authorization No:	Stamp	n: N/A	
5. (a) Applicable Construction Code: ASME Section III. Class 2-NF. 197			N/A N/A	
	74 Edition, S. 174 a	ddenda	1	
(b) Applicable Edition of Section XI Utilized for Repair/Replacement	at Activity: 1995 Ed	dition;	1996 Addenda	
5. Identification of Components:				
· · · · · · · · · · · · · · · · · · ·		Year Built	Corrected, Removed, or Installed	ASME Code Stampe Yes/No
Size 100-6 Snubber Pacific Scientific 520 N/A S3ST	T002H001	1978	Corrected	No
		N/A	Installed	No
rocess. A VT-3 examination was performed of the reinstalled snubber assemb	oly.			
			. 1 . 3	
Tests Conducted: Hydrostatic: Pneumatic: Nominal Operation Pressure: N/A psi Test Temp:		Exe	mpt: Ot	her: <u>X</u>

8.

FORM NIS-2 (back)

FORM MIS-2 (back)
9. Remarks: The replacement load pin was certified to ASME III, Class 1, 1998 Edition, 2000 as allowed per RoR-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: Meichler Supervising ASME Code Engineer Date: 1/24/2011 Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>11/13/10</u> to <u>12/23/10</u> , 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.
11/14/2014
Inspector's Signature Commissions NB13452-1 CA2093 California (National Board, State, Province, and Endorsements)

Date 4/27/11

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: 04/12/2011

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 800615888-0017,

GEN-239 Rev.1

Unit: 3

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800615888

Type Code Symbol Stamp: N/A 4. Identification of System: Safety Injection / Shutdown Cooling System

Authorization No:

N/A

Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer '74 addenda

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

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 x 2½"Safety Relief Valve	Crosby Valve & Gage	N61198-00-0004	N/A	3PSV9308	1992	Removed	Yes
1½ x 2½"Safety Relief Valve	Anderson Greenwood Crosby	N61198-00-0006	N/A	ILN-10000029307	2010	Installed	Yes
(4) ¾"-10UN x 4.25" Stud bolt	Mackson Inc.	Heat # 367370	N/A	RSO-0775-06 SA193 gr.B7	N/A	Installed	No
(8) ¾"-10UN Heavy Hex Nut	Mackson Inc.	Heat # 7345831	N/A	ILN-10000019567 SA194 gr.2H	N/A	Installed	No

7. Description of Work:

The safety relief valve in plant position 3PSV9308 was replaced per NECP 800516571. The valve replacement was required due to the piping system attached to valve was being replaced and changing from ASME III, Code Class 3 to ASME III, Code Class 3 per referenced NECP. The outlet bolting was replaced with ASME III, Class 2 bolting consistent with the piping classification. The stud bolts were fabricated from all-thread material in accordance with RRP-GEN-239 Rev.1.

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

8.	Tests Conducted:	Hydrostatic	:	Pneumatic:	Nomina	l Operating Pres	sure: <u>X</u>	Exempt:	Other:
	P	ressure:	173	_psi @ 3P-015 disc	harge	Test Temp:	N/A	° F	

FORM NIS-2 (back)

9. **Remarks:** The replacement stud bolts were certified to the 1989 Edition, no addenda as allowed per reconciliation RoR-002-03. The replacement nuts were certified to the 1989 Edition, no addenda as allowed per reconciliation RoR-003-03.

(Applicable Manufacturer's Data Reports to be attached)

	CERTI	FICA	TF	OF	COV	IDI 1	IANC	T
- 3							A 1	٠,

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: Signed: Date: 4 27 2011

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>12/2/10</u> to <u>12/27/10</u>, 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.

	WAZCUZ	Commissions NG13402-1 CA2093 California
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date _	5/3/11	

100000030

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES

As required by the Provisions of the ASME Code Rules

DATA REPORT

1. Manufactured By	Ander	son Greenwood C	Crosby, 55 Ca	abot Blvd	., Mansfield, M	IA 02048	
•			Name and				
Model No. 10-55-9-1	WRS:SPL Order No.	G438460000 Cor	ntract Date _	8/6/201	0 National I	Board No	
2. Manufactured For	EDIS	ON MATERIAL	SUPPLY LI	LC	Order N	√o. 4500	306584
		Name and Addres					
3. Owner					<u>LC</u>		
4. Location of Plant			ne and Addre GEN. STA.		LEMENTE, C.	A	
-						····	
5. Valve Identification	SPARE	Serial No.	N61198-0	0-0006	Drawing No.	DS-C-611	93 REV. D
Type SA	LFETY RELIEF	Orifice S	Size 0.852	Pipe Siz	e Inlet	1 1/2 Outle	et 21/2
Safety, Safety	Relief, Pilot, Power	Actuated	Inch	-		Inch	Inch
6. Set Pressure (PSIG)	615 PSIG	WATER			200	•	0
·					Rated Temp	erature	
Stamped Capacity	200 GPM WTR./LIQ. @	370°F @ 10	% Overpress	sure	Blowdown (ps	ig)	10%
Hydrostatic Test (PS)	IG) Inlet	925 Co	omplete Valv	ve		100	
7. The material, design,	construction and w	orkmanship comp	ly with ASM	Œ Code,	Section III.		
Class 2	Edition 19	74 Adden	da Date	SUMME	R 1974 Case 1	No	N/A
Pressure Containing of	or Pressure Retainin	ia Components					
1105000 Condiming (A 1 1005th o Telahini	rg components					
		Serial No.			Material Spe	ecification	
a. Castings		Identificati	on ·	Including Type or Grade			
Body		N92048-36-0	007		ASME SA35	I GR. CF3N	1
Bonnet		N91229-42-0021			ASME SA35	1 GR. CF3N	A
b. Bar Stock and Forg	ings						
Support Rods		1					
Nozzle		N91227-44-0	031		ASME SA47	9 TYPE 316	L
Disc		N91228-52-0	039		ASME SA47	9 TYPE 316	L
	_	N88830-87-1	192	•			
Spring Washers	_	N88830-87-1	189		ASME SA47	9 TYPE 31	6 .
Adjusting Bolt	_	N88869-73-0	124		ASME SA47	9 TYPE 31	6
Spindle	-						

	our and the riord of	s Serial No.	N61193-	00-0006 Sheet 2 of
		Serial No Identificati		Material Specification Including Type or Grade
c. Spring		NX3236-00	19	ASTM A313 TYPE 316
d. Bolting				
e. Other Parts such as Pilot C	omponents			
SPINDLE POINT		N89444-71-0081		ASME SA479 TYPE 316
SPINDLE ROD		N93950-43-0024		ASME SA479 TYPE 316
SPINDLE BALL		N93916-0159	-	ASTM A276 TYPE 440C
BONNET STUD		N95882-AAG		ASME SA193 GR. B7
BONNET NUT		N95883-AAN5		ASME SA194 GR. 2H
NOZZLE RING		N93930-39-0018		ASME SA637 GR. 718
GUIDE		N93931-40-0020		ASME SA479 TYPE 316L
We certify that the statements of the statement	•	are correct. Anderson Greenwood Mansfield, MA	-	Carol Atten
		Manufacturer		·
ertificate of Authorization No	. N-1	878 Expire	es 2	6-Nov-10
				Date
I, the undersigned, holding State or Province of	a valid commission	d by		ON d Pressure Vessel Inspectors and the
have inspected the equip	ment described in			
knowledge and belief, the Subsections of ASME Se		20 s constructed this equip		te that to the best of my lance with the applicable
implied, concerning th	e equipment des liable in any mar	scribed in this Data R nner for any personal	eport Furthe	any warranty , expressed or ermore, neither the Inspector nor perty damage or a loss of any

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern Address: 2244 W	California Edison ('alnut Grove Avenue		91770	Date: 01/19/2011 Sheet Unit: 3			
2. Plant: San Onofro Address: P.O. Bo	e Nuclear Generatin ox 128, San Clemen		28	Repair/Replace	ement Plan	ı: 800486288-0	010
3. Work Performed Address: 2244 W	by: Southern Calif			WO: 80048628	8, 8006318	801	
4. Identification of S	System: Chemical &	k Volume Contro	l System	Type Code Syn Authorization Expiration Dat	No:	N/AN/AN/A	
` ' -	Construction Code Class 2 system).	: ASME Section	III, Class 1, 1	971 Edition, S. '73 a	ddenda (A	SME III, Class	1 valve
(b) Applicable	Edition of Section	XI Utilized for R	Repair/Repla	cement Activity: 199	5 Edition;	1996 Addenda	
6. Identification of							
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 # Y-Check Valve	Kerotest	MA2-8	N/A	S31208MU122	1976	Corrected	Yes
Disc	Kerotest	S/N:AHG12-10 Heat #	N/A	SA479 Type 316 RSO-4014-84	1984	Installed	Yes
7. Description of W The 2" check valve in in conjunction with the reworked under NMC performed when valve.	a plant location S3.0 ne overhaul under N 0 800631801 to obta e was returned to se	MO 800486288. in a satisfactory	The valve fai seat leakage t	led the seat leakage to	est after rea test and V	ssembly and ha	ad to be
8. Tests Conducted:	Hydrostatic:	Pneumatic:	Nomina	l Operating Pressur	e: <u>X</u> E	Exempt: C	Other:
	Pressure: 2253	psi Test	Temp:	<u>N/A</u> °F			

FORM NIS-2 (back)

(A	Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
I certify that the statements made in Section XI.	the report are correct and this conforms to the requirements of the ASME Code,
Type Code Symbol Stamp: N/A	
Certificate of Authorization No: No	/A Expiration Date: N/A
Signed: Ley Sor Al Owner or Owner's Designe	Meichler Supervising ASME Code Engineer Date: 2/28/11
CER	TIFICATE OF INSERVICE INSPECTION
State or Province of <u>California</u> , and this Owner's Report during the period	mmission issued by the National Board of Boiler and Pressure Vessel Inspectors and the employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in a <u>11/17/10</u> to <u>2/10/11</u> , and state that to the best of my knowledge and belief, the and taken corrective measures described in this Owner's Report in accordance with the etion XI.
examinations and corrective measure	Inspector nor his employer makes any warranty, expressed or implied, concerning the s described in this Owner's Report. Furthermore, neither the Inspector nor his employer personal injury or property damage or a loss of any kind arising from or connected with
WAZENZ	Commissions NB13402-1 CA2093 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

	:======:				=====					
 Owner: Southern Cal Address: 2244 Walnu 			91770	Date: 01/24/2011			Sheet 1 of 1			
	•	,	21110	Unit: 3						
2. Plant: San Onofre Nu Address: P.O. Box 12			8	Repair/Replacen	ient Pla	n: 003-11				
3. Work Performed by: Address: 2244 Walm				WO : 800641603						
4. Identification of Syste	em: Feed Water S			Type Code Symb Authorization No Expiration Date:		p: N/A N/A N/A				
Drawing: S3-FW-190-H-0)17 (DCNs 1-3)									
5. (a) Applicable Cons	struction Code: /	ASME Section II	I, Class 2-NI	F, 1974 Edition, Summ	ier 1974	Addenda				
(b) Applicable Edit	ion of Section XI	Utilized for Re	pair/Replac	ement Activity: 1995	Edition;	1996 Addend	a			
6. Identification of Com	ponents:									
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			
Spring Hanger Support	Grinnell/Anvil	N/A	N/A	S3-FW-190-H-017		Corrected	No			
setting was 1-1/2" (5400# on the eye nut and cannot be spring can was readjusted after restoration of the spring can was readjusted to after restoration of the spring can was readjusted to a spring can was readjusted	be adjusted withou to within tolerance	ut trimming lengt e. The as-left set	th. The as-fo ting was 1-3	ound rod length of 20" /16" (5670# load). A	was trin	med to 18-1/8	". The			
						·				
					٠.					
8. Tests Conducted: Hyd	drostatic:]	Pneumatic:	Nominal C	Operating Pressure:_	Exe	empt: O	ther: <u>X</u>			
,	VT-3: <u>X</u>	Pressure:	N/A	psi Test T	emp:	N/A	°F			

NOTE:

Date ______3/7/11

(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: Reges Holmes for ABMe/ch/er Supervising ASME Code Engineer Date: 1/24/11 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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>1/14/11</u> to <u>1/21/11</u> , 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.					
Commissions NB 13402-1 CAZO93 California					
Inspector's Signature (National Board, State, Province, and Endorsements)					

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company	Date: 05/06/11	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: 011-10

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

WO: 800550895 / 800516738

4. Identification of System: Safety Injection System

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

5. (a) Applicable Construction Code: ASME Section III, Class 2,(NC) 1974 Edition, 1974 Addenda
NDE methods and acceptance per 1995 Edition, 1996 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" Sch. 10 Pipe Spool	Bechtel Corp.	N5 / SN S3-1204- 24	N/A	S3-1204-ML-131	78	Modified	No
4" Sch. 40 Pipe 15'	Tubacex	Heat # 41194	N/A	ILN# 10000026406 SA376 Gr. TP 304	N/A	Installed	No
4" Sch. 40 90 deg. Elbow 3ea.	Taylor Forge	Heat # MUNW-2	N/A	ILN# 10000026397 SA403 Gr. WP304/304L	N/A	Installed	No
4" Sch. 90 90 deg. Elbow 1ea.	Taylor Forge	Heat # MUNW-1	N/A	ILN# 1000023709 SA403 Gr. WP304/304L	N/A	Installed	No
4" x 6" Sch. 40 Reducer 1ea.	Taylor Forge	Heat # MMLQ1	, N/A	ILN# 10000027175 SA403 Gr. WP304/304L	N/A	Installed	No

7. Description of Work: The replacement of the ECCS stainless steel piping on line number S3-1204-ML-131, in accordance with NCEP 800516571. This work scope provided for the installation of the schedule 40 piping, and to install a low carbon grade of stainless steel for corrosion enhancement and design improvement. The piping components were pre-fabricated under NMO 800550895 and weld record WR3-10-067. The installation phase is under NMO 800516738. All NDE examinations were performed in accordance with the supporting weld record.

Reference RRP 011-10, NECP 800516571 WR3-10-067, WR3-10-067

8. Tests Conducted:	Hydrostatic:	Pneumatic:	Non	inal Operating Press	ure:	Exempt:	Other:
	See:	_ Pressure:	175	psi	Test Tem	p: <u>N/A</u>	°F

9. Remarks: None.

this inspection.

Date ____

(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:AS MERCHIEK Supervising ASME Code Engineer Date:						
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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>4/3/10</u> to 1/27/10, 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

California

(National Board, State, Province, and Endorsements)

Commissions N6(3402-1

As Required by the Provisions of the ASME Code Section XI

1. Owner: Souther		lison Company Avenue, Rosemead,	CA 01770		e: 05/06/11			Sheet 1 of 1
Addiess. 2244	wamut Grove A	Avenue, Rosemeau,	CA 91770	Unit	:: 3			
2. Plant: San Onof Address: P.O. B		erating Station emente, CA 92672	-0128	Rep	air/Replace	ment Pla	n: 014-10 Rev	. 1
3. Work Performed		California Edison (venue, Rosemead,			: 800550896	5 / 800579	9805 / 8005715	506
4. Identification of System: Safety Injection System				Type Autl	Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A			
5. (a) Applicable	Construction	Code: ASME Section NDE method		s 2, (NF) 1974 amination per 1				
(b) Applicable	Edition of Sec	tion XI Utilized for	r Repair/R	eplacement A	ctivity: 199	5 Edition;	1996 Addenda	a
6. Identification of	Components:							
						1	Corrected,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Oth Identifi		Year Built	Removed, or Installed	Code Stamped Yes/No
4" NPS Sch. 10 Pipe Spool	Becthel Corp.	N5/SN S3-1204- 24	N/A	S3-1204-	ML-151	78	Modified	No
2" NPS Sch. 40 Dummy Stub 1ea.	Tioga	Heat # S3-SI-131-H-008	N/A	ILN # 3 SA376		N/A	Installed	No
2" NPS Sch. 40 Dummy Stub 1ea.	Tioga	Heat # S3-SI-131-H-010	N/A	ILN # 3 SA376	B889	N/A	Installed	No
7. Description of W stubs. The dummy performed on all w	stub end plates elds in accorda 3-10-099, WR	e replacement of line, along with a rear b nce with the weld re 3-10-100, WR3-110	racket end jecord.	3-1204-ML-15	1, it was req	All NDE e	examinations w	
8. Tests Conducted:	Hvdrostatic:	Pneumatic:	Nom	ninal Operatin	g Pressure:		empt: O	other:

See: Pressure: 175 psi

Test Temp: N/A °F

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: Owner or Owner's Designee, Title

For AB MEICHLES Supervising ASME Code Engineer Date: 05/06/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period $\frac{9/3}{10}$ to $\frac{12/27/10}{12}$, 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.

Commissions NB13402-1

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

 Owner: Souther Address: 2244 V 		lison Company Avenue, Rosemead,	CA 91770	Date: 05/06/11		S	Sheet 1 of
		,		Unit: 3			
	Plant: San Onofre Nuclear Generating Station Address: P.O. Box 128, San Clemente, CA 92672-0128				ment Pla	n: 012-10	
3. Work Performed	-	California Edison (venue, Rosemead, (WO: 800550896	5 / 80051 6	5738	
. Identification of		,	CA 91770	Type Code Sym Authorization N Expiration Date	lo:	p: N/A N/A N/A	
. (a) Applicable	Construction			2, (NC) 1974 Edition, 19 tance per 1995 Edition, 19			
(b) Applicable	Edition of Sec	tion XI Utilized for	r Repair/Re	eplacement Activity: 1995	5 Edition;	1996 Addenda	
. 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" Sch. 10 Pipe	Bechtel	N5 / SN S3-1204-	N/A	S3-1204-ML-151	78	Modified	No
Spool 4" Sch. 40 Pipe 19'-5"	Corp. Tubacex	24 Heat # 41194	N/A	ILN # 10000026406 SA376 Gr. TP304	N/A	Installed	No
4" Sch. 40 00 deg. Elbow 1ea.	Taylor Forge	Heat # MUNW-2	N/A	ILN # 10000026406 SA403 Gr. WP304	N/A	Installed	No
with NECP 80051 of stainless steel fo	6571. This wor r corrosion enh and Weld Recor all welds in acc	k scope provided fo ancement and desig rd WR3-10-068. Th cordance with the su	r the installant improvem the installation in	steel piping on line numb ation of schedule 40 piping ent. The piping componen n phase is under NMO 800 eld record.	and to it were property is a second to it.	nstall a low car e-fabricated und	bon grade ler
		·					`
Tests Conducted:	Hydrostatic:	Pneumatic:	Nomi	inal Operating Pressure:	Exe	empt: O	ther:

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: Many For AB Merchien Supervising ASME Code Engineer Date: 05/06/11 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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>1/3/10</u> to <u>1/27/10</u>, 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.

_	Macha	Commissions	NB13402-1	CA2093	California
	Inspector's Signature O	-			and Endorsements)
Date	5/6/11			-	

As Required by the Provisions of the ASME Code Section XI

	 Owner: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 			Date: 05/06/11		;	Sheet 1 of 1		
2. Plant: San Ono: Address: P.O. I		nerating Station lemente, CA 92672	-0128	Unit: 3 Repair/Replace	ment Pla	n: RRP 014-10) Rev. 1		
	 Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770 			WO : 800571506	WO: 800571506 / 800579805				
4. Identification of			CA 91770	Type Code Sym Authorization N Expiration Date	lo:	p: N/A N/A N/A			
	Edition of Sec	NDE method	and examin	s 2, (NF) 1974 Edition, 'S' ation per 1995 Edition 199 eplacement Activity: 199	6 Addeno	ia	a		
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" Sch. 10 Pipe Spool	Bechtel Corp.	N5/SN S3-1204- 24	N/A	S3-1204-ML-131	78	Modified	No		
Lugs 1"x1-1/2"x 1"	Dubose National	Heat # 37753 S3-SI-131-H-008	N/A	ILN # 100002815 SA240 Gr. 304	N/A	Installed	No		
Lugs ½"x 2"x2-1/2"		Heat # 5JK3 S3-SI-131-H-010	N/A	ILN # 10000028901 SA240 Gr. 304	N/A	Installed	No		
7. Description of V	/arl. D			2 1204 MT 121 it		1			
pipe support lugs.	The fabricated	lugs were pre-fabric	cated under	3-1204-ML-131 it was reg NMO 80057156 and insta- ions were performed on all	lled under	800579805, a	long with		
Reference: RRP 0	14-10 Rev.1, N	ECP 800516572, W	/R3-10-097,	, WR3-10-098	, ,	. * .			
				·					
3. Tests Conducted:	: Hydrostatic:	: Pneumatic:	Nom	inal Operating Pressure:	Exe	empt: C	ther:		
	See:	Pressure	e: <u>175</u>	psi Test	Temp:	N/A	°F		

NOTE:

(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 ALS MEIGHUEN Supervising ASME Code Engineer Date: Signed: 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 1/3/10 to 12/10, 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.

	MAZMA	_ Commissions	N613402-1	CA 2093	California
•	Inspector's Signature O	_	(National Board,	State, Province	, and Endorsements)
Date	5/6/11				

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: 05/05/2011 Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 010-10, Rev 1

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

WO: 800550894, 800516800

4. Identification of System: 1204, ECCS system

Type Code Symbol Stamp: N/A

Authorization No:

Unit: 3

N/A

Isometric: S3-1204-ML-080, Sht 3 (ECN D0043214)

Expiration Date:

N/A

- 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, summer 1974 Addenda
 - (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 1995 Edition; 1996 Addenda

6. Identification of Components:

o. Identification o	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
S3-1204-ML-080	Pullman Inc.	N5 S3-1204-24	N/A		1978	Removed	Yes
6" Sch 40S Pipe	Tioga Pipe Supply Co.	Ht # 42262	N/A	ILN 10000026405 SA-376-TP304 (note 1)	_	Installed	No
6" Sch 40S Pipe	Consolidated Pipe & Supply	Ht # 045651	N/A	· ILN 10000019514 SA-376-TP304 (note 1)		Installed	No
6" Sch 40S Pipe	Tioga Pipe Supply Co.	Ht # 3F706	N/A	ILN 10000027815 SA-376-TP304 (note 1)	-	Installed	No
10"x6" BW Eccen. Reducer, Sch 40S	Tioga Pipe Supply Co.	Ht # MVRK-1	N/A	ILN 10000027176 SA-403-WP304 (note 2)		Installed	No
6" Sch 40S, BW, 90° elbows	Tioga Pipe Supply Co.	Ht # MWHD-2 Ht # MWHD-3	N/A	ILN 10000026395 SA-403-WP304 (note 2)	_	Installed	No
6" Sch 40S, BW, 90° elbows	Tioga Pipe Supply Co.	Ht # MWNG-2	N/A	ILN 10000027811 SA-403-WP304 (note 2)		Installed	No
6" Sch 40S, BW, 90° elbows	Consolidated Pipe & Supply	Ht # MQOW-2	N/A	ILN 10000019420 SA-403-WP304 (note 2)	_	Installed	No

7. Description of Work:

The existing schedule 10S piping shown on Iso Dwg S3-1204-ML-080, sht 3 was replaced with schedule 40S per NECP Order 000800516751. Replacement materials had Carbon content restricted to 0.03% max.

Note 1: Reference RoR 014-03 Note 2: Reference RoR-020-03

8. Tests Conducted: Hydrostatic:___ Pneumatic:__ Nominal Operating Pressure: X Exempt:__ Other:__ See: NMO 800516800, Operation 0270 Pressure: 173 psig Test Temp:___ N/A ___ °F

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 Lyllmen for AB Merch/Pr Supervising ASME Code Engineer Date: 5/5/11

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/3/10</u> to <u>12/27/10</u>, 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.

	WAZCUR	Commissions NB 13402 A, N, I CA2093
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	5/6/11	

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: 05/05/2011

Unit: 3

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

Address: P.O. Box 128, San Clemente, CA 92672-0128

Repair/Replacement Plan: 010-10, Rev 1

3. Work Performed by: Southern California Edison Company

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

WO: 800550894, 800516739 (note 1)

800611068 (note 2)

4. Identification of System: 1204, ECCS system

Type Code Symbol Stamp: N/A **Authorization No:**

N/A

Expiration Date:

N/A

Isometric: S3-1204-ML-080, Sht 2 (ECN D0043212)

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, summer 1974 Addenda

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
S3-1204-ML-080	Pullman Inc.	N5 S3-1204-24	N/A		1978	Removed	Yes
6" Sch 40S Pipe	Tioga Pipe Supply Co.	Ht # 42262	N/A	ILN 10000026405 SA-376-TP304 (note 3)	_	Installed	No
6" Sch 40S, 90° elbows (2 each)	Tioga Pipe Supply Co.	Ht # MWHD-2	N/A	ILN 10000026395 SA-403-WP304 (note 4)	_	Installed	No

7. Description of Work:

The existing schedule 10S piping shown on Iso Dwg S3-1204-ML-080, sht 2 was replaced with schedule 40S per NECP Order 000800516751. Carbon content of replacement materials was restricted to 0.03% max.

Note 1: Scope includes material verification and pre-fabrication of pipe spools. Performed by Edison Construction Group.

Note 2: Scope includes piping installation field welds. Performed by contractor (WSI). See WSI Traveler 205913-TR-325-04 & WSI NCR 10-266.

Note 3: Reference RoR 014-03

Note 4: Reference RoR-020-03

8. Tests Conducted: Hydrostatic:	Pneumatic:	Nominal Opera	ting Pressure: <u>X</u>	Exem	pt:	Other:
See: NMO 800516739, Operation 0375	Pressure:	<u>173</u> psig	Test Temp:	N/A	°F	

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 I Solomb for AB Meichler Supervising ASME Code Engineer Date: 5/5/11

Owner or Owner's Designee, Title

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/3/10</u> to <u>12/27/10</u>, 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.

CERTIFICATE OF INSERVICE INSPECTION

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.

Macha	Commissions NB 13402 A, N, I CA2093	
Inspector's Signature	(National Board, State, Province, and Endorsements)	

Date ___ 5/6/11

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Date: 05/05/11 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: 014-10 Rev.1

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

WO: 800579808 / 800571506

4. Identification of System: 1219 Fuel Pool 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, (NF) 1974 Edition, 'S' 1974 Addenda

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

6. Identification of Components:

			1		T	Corrected,	ASME
Name of	Name of	Manufacturer	National	Other	Year	Removed, or	Code
Component	Manufacturer	Serial No.	Board	Identification	Built	Installed	Stamped
			No.				Yes/No
10" Sch. 10 Pipe	Bechtel Corp.	N5 / SN S3-1219-	N/A	S3-1219-ML-107	78	Modified	No
Spool		4					
Pipe Support	Dubose	Heat # 40187	N/A	ILN # 10000022302	N/A	Installed	No
S3-FS-107-H-001	National		11,000	'4" NPS, 'Sch. 40 / SA376			
<u></u>				TP304			
Pipe Support	Dubose	Heat # 40187	N/A	ILN # 10000023302	N/A	Installed	No
S3-FS-107-H-006	National			4" NPS, Sch. 40 / SA376			
				TP304			
Pipe Support	Consolidated	Heat # 045651	N/A	ILN # 100000192461	N/A	Installed	No
S3-FS-107-H-007	Pipe			4" NPS, Sch. 40 / SA376			ĺ
				TP304			
		· · · · · · · · · · · · · · · · · · ·				I	
Pipe Support	Dubose	' Heat # 40187 '`	N/A	ILN # 10000022302	N/A	nstalled	No
S3-FS-107-H-009	National			4" NPS, Sch. 40 / SA376			
<u> </u>				TP304			

7. **Description of Work:** During the replacement of line number S3-1219-ML-107, it was also required to replace a section of the pipe support dummy stubs. The 4" NPS schedule 40 pipe stubs are welded to the replacement piping, based on the design that are NF. All NDE examinations were performed on all welds in accordance with the weld record.

 Weld Record Numbers
 Pipe Support Numbers

 WR3-10-101
 S3-FS-107-H-001

 WR3-10-103
 S3-FS-107-H-006

 WR3-10-104
 S3-FS-107-H-007

 WR3-10-105
 S3-FS-107-H-009

References RRP 014-10 NECP 800516572

8. Tests Conducted:	Hydrostatic:	Pneumatic:	Nominal (Operating Pr	essure: E	xempt:	Other:
	See:	Pressure:	175	psi	Test Temp:	N/A	°F

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 B. MEICHLES apervising ASME Code Engineer Date: Signed: 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 10/12/10 to 12/17/10, 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.

	WAZENA	Commissions	NB13402-1	CA2093	California
	Inspector's Signature O				and Endorsements)
Date	5/6/11				

As Required by the Provisions of the ASME Code Section XI

	Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770				Date: 05/05/11				
2. Plant: San Onot	2. Plant: San Onofre Nuclear Generating Station				Unit: 3				
		emente, CA 92672	-0128	Repair/Replacem	ent Pla	n: 014-10 Rev.	1		
3. Work Performe Address: 2244		California Edison (venue, Rosemead, (WO: 800579808 /	800571	506			
				Type Code Symbo					
4. Identification of	System: 1219	Fuel Pool Cooling S	System	Authorization No Expiration Date:) :	N/A N/A			
5. (a) Applicable	Construction	Code: ASME Section	on III, Cla	ss 2 , (NF) 1974 Edition 'S' 1	974 Ad	denda			
(b) Applicable	Edition of Sec	tion XI Utilized for	r Repair/I	Replacement Activity: 1995	Edition;	1996 Addenda			
6. Identification of	Components:								
						Corrected,	ASME		
Name of	Name of	Manufacturer	National	1	Year	Removed, or	Code		
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped		
10" Sch. 10 Pipe	Bechtel	N5 / SN S3-1219-	N/A	S3-1219-ML-107	78	Modified	Yes/No No		
Spool	Beciliei	4	IVA	33-1219-WIL-107	76	Modified	NO		
Pipe Support S3-FS-107-H-005	Dubose National	Heat # 250714	N/A	ILN # 10000028114 1"x2" Lugs / SA240 Gr.304	N/A	Installed	No		
Pipe Support	N/A	N/A	N/A	S3-1219-ML-107	N/A	Reinstalled	No		
S3-FS-107-H- 001,006,007,009				dummy stub to end plate welds					
Pipe Support	N/A	N/A	N/A	S3-1291-ML-107	N/A	Reinstalled	No		
S3-FS-107-H- 001,006,007,009				rear bracket to end plate weld					
reinstall the dumm	y stub to end p	lates, along with the	rear brack	S3-1219-ML-107, it was also ket end plates. These are NF dons were performed on all we	lesigned	pipe supports	hat		
Weld Record Nun	nbers	Pipe Support Numb							
WR3-10-102		S3-FS-107-H-00		7 000					
WR3-10-106 WR3-10-107		S3-FS-107-H-00 S3-FS-107-H-00							
Reference: RRP 0	14-10 Rev. 1 800516572	33-13-107-11-00	1, 000, 00	7, 009					
8. Tests Conducted:	Hydrostatic:	Pneumatic:_	Non	ninal Operating Pressure:	Exe	empt: O	ther:		
	See:	Pressure	e: <u>175</u>	psi Test T	`emp:	N/A	°F		

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:						
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 <u>California</u> , and employed by <u>HSB-CT</u> of <u>Hartford</u> , <u>CT</u> have inspected the components described in this Owner's Report during the period <u>ID/IJ/IO</u> to <u>ID/IJ/IO</u> , 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 N613402-1 CAZO93 California (National Board, State, Province, and Endorsements)						
Date						

As Required by the Provisions of the ASME Code Section XI

1.	Owner: Southern California Edison Company	Date: 05/04/11	Sheet 1 of		
	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: 009-10			
3.	Work Performed by: Southern California Edison Company Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770	WO: 800550897 / 80055	53023 / 800571506		
	,	Type Code Symbol Star	np: N/A		
4.	Identification of System: 1219 Fuel Pool Cooling System	Authorization No:	N/A		
		Expiration Date:	N/A		
5.	(a) Applicable Construction Code: ASME Section III, Class 2,	NC) 1974 Edition 'S' 1974 A			

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
10" Sch. 10 pipe spool	Bechtel Corp.	N5 / SN S3-1219- 4	N/A	S3-1219-ML-107	74	Modified	No
10" Sch. 40 pipe 21'-4"	Jinghang	Heat #YX0810-02	N/A	ILN# 10000026504 SA376 TP304/304L	N/A	Installed	No
10" Sch. 40 elbow 1ea.	Taylor Forge	Heat # MVRK-1	N/A	ILN # 1000026396 SA-403 Gr. WP304	N/A	Installed	No
10" Sch. 40 Flange 1ea.	Tioga Pipe	Heat # GHH	N/A	ILN # 10000026403 SA-182 Gr. WP304	N/A	Installed	No
7/8" Studs 36" Length	Mackson Inc.	Heat # 470650	N/A	ILN # 10000010325 SA-193 Gr. B7	N/A	Installed	No
7/8" Nuts 24 ea.	Cardinal	Heat # 301372	N/A	RSO # 3131-92 SA-194 Gr. 2H	N/A	Installed	No

7. Description of Work: The replacement of the ECCS stainless steel piping on line number S3-1219-ML-107 in accordance with ECP 800516571. This work scope provided for the installation of schedule 40 piping and to install a low carbon grade of stainless steel for corrosion and design improvement. The piping components were pre-fabricated under NMO # 800550897 and Weld Record WR3-10-063 and installed under NMO # 8005503023. All NDE examinations were performed on all welds in accordance with the weld record.

References: RRP 009-10, NECP 800516572

8.	Tests Conducted:	Hydrostatic:	Pneumatic:	Nominal Opera	ting Pressure:	<u>X</u> E	Exempt:	Other:
	r.	See:	Pressure:	<u>175</u> psi	Test Temp:	N/A	°F	

_		
n	Remark	- N
9	Remark	e None

(Applicable Manufacturer's Dam 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:								

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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/3/10</u> to 12/27/10, 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.

	MARZONO	Commissions NB13402-1 CA7093 California
	Inspector's Signatur	(National Board, State, Province, and Endorsements)
Date	5/6/11	

As Required by the Provisions of the ASME Code Section XI

l. Owner:	Southern California Edison Company	Date: 05/06/11	Sheet 1 of 1
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Unit: 3

Address: 2244 Walnut Grove Avenue, Rosemead, CA 91770

Plant: San Onofre Nuclear Generating Station
 Address: P.O. Box 128, San Clemente, CA 92672-0128
 Repair/Replacement Plan: 014-10, R1

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

WO: 800571506, 800579805

4. Identification of System: 1204, ECCS

Type Code Symbol Stamp: N/A

Authorization No: N/A

Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, NF (Class 2), 1974 Edition, Summer 1974 Addenda

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

6. Identification of Components:

Name of	Name of	Manufacturer	National	Other	Year	Corrected, Removed, or	ASME Code
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Installed	Stamped Yes/No
S3-SI-080-H-027	Bechtel	N5 S3-1204-24	N/A	-	1978	Corrected	No
2-1/2" x 3" x 1-1/2"	Dubose National	Heat # 250432	N/A	ILN 10000028116		Installed	No
Lugs, 4 each	Energy Services			SA-240 type 304			
S3-SI-080-H-028	Bechtel	N5 S3-1204-24	N/A		1978	Corrected	No
3" Sch 40S, Dummy Stub, 1 each	Tioga Pipe Supply	Heat # 3D061	N/A	ILN 10000027357 SA-376 TP304		Installed	No
S3-SI-080-H-033	Bechtel	N5 S3-1204-24	N/A	_	1978	Corrected	No
3" Sch 40S, Dummy Stubs, 2 each	Tioga Pipe Supply	Heat # 3D061	N/A	ILN 10000027357 SA-376 TP304		Installed	No

7. Description of Work:

The integral attachments listed above were attached by welding to line number S3-1204-ML-080 in conjunction with replacement of the piping on NECP 800516572. The material verification was performed on work order 800571506 and welding and NDE were performed on 800579805.

8. Tests Conducted:	Hydrostatic:	Pneumatic:	Nomina	Nominal Operating Pressu			sure: Exempt:			-
		Pressur	re: <u>N</u>	N/A	_psi	Test Temp	:	N/A	°F	

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: Park Normes for ABMeich / Supervising ASME Code Engineer Date: 5/6/11
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 <u>California</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>10/12/10</u> to <u>12/8/10</u>, 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.

	WAZCHa	Commissions NB13402 A, N, I CA2093
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date	5/1/11	

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: 11/12/20	Date: 11/12/2010		Sheet 1 of 1		
2.	Plant: San Onofr	e Nuclear Generatii	ng Station		Unit: 3				
Address: P.O. Box 128, San Clemente, CA 92672-0128					-	Repair/Replacement Plans: 3-M0P-7054-1, R2 & 3-M0P-7054-1A			
3.		by: Southern Cali Valnut Grove Avenu		WO: 80046043	WO: 800460432				
4.	Identification of	System: 1201 (Rea	ctor Coolant Sys	tem)	NECP: 800072	NECP: 800072650, 800072652 and 800072648			
Dwgs: 48001 Sh 2 (ECN D0028777), 48001 Sh 3 (ECN D0028780) SO23-617-1-D113 & D114 SO23-617-1-D613, D1240 & D1241 SO23-617-1-D614, D1242 & D1243 SO23-617-1-D1453, D1478, D1483 & D1266					WCN 25221-00 Type Code Syn	WP&IR: 25221-003-M0P-7054-00001-000 & WCN 25221-003-M0N-7054-00001 Type Code Symbol Stamp: N/A Authorization No: N/A			
	SO23-617-1	•			Expiration Dat		N/A		
		Edition of Section			, 1998 Edition, 2000 A				
	Nama of	Nome of	Manufacturar	National	Othor	Voor	Corrected,	ASME	
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Code Stamped Yes/No	
	Replacement Steam Generator (RSG)	Mitsubishi Heavy Industries	B-SGP-113	5865	S31301ME088 RSO-0018-10	2010	see block 7	Yes	
an Su on Af ho	d machine beveled olant hot leg nozzle or a contract examinations the ID of the hot a contract the original steadles on the RSG low acing tolerances. T	in preparation for it, two each 30" ID it were performed on and cold leg nozzles im generator (OSG) for support skirt. So	nstallation of the reactor coolant co the newly mach. No indications was removed, the ome of the studs al interference p	replacement old leg nozzl ined surfaces were found. ne sliding bas on the sliding roblems duri	sel primary side nozzle vessel. Included in the es and four 3/4"NPS pro- s of the nozzle bevels a se was templated and c g base were slightly oung RSG installation, the	is scope warimary instruction of the mac ompared war of the expection of t	is: one each 42" rument tap nozz hine chuck conf ith the correspo ected bolt circle	'ID reactoritles. tact areas onding bolt e or	
8.	Tests Conducted:	Hydrostatic:	/ Pneumatic:	Nominal (Operating Pressure:	X Exem	pt: Other	: <u> </u>	

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: Male Mentiles Supervising ASME Code Engineer Date: 05/09/1/ 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

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Minnesota</u>, and employed by <u>HSB-CT</u> of <u>Hartford</u>, <u>CT</u> have inspected the components described in this Owner's Report during the period <u>S/13/10</u> to <u>n/15/10</u>, 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.

_	WAZOUS	NG13402-1 CA2093 Commissions <u>NB6752 A, B, I, N, NS MN054531</u>
	Inspector's Signature	(National Board, State, Province, and Endorsements)
Date _	5/9/11	