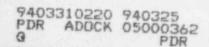


SAN ONOFRE NUCLEAR GENERATING STATION UNIT 3

INSERVICE INSPECTION SUMMARY REPORT

Examination Dates: March 31, 1992 to December 30, 1993



KEY INFORMATION

EXAMINATION INTERVAL: FIRST

EXAMINATION PERIOD: THIRD

EXAMINATION DATES: March 31, 1992 to December 30, 1993

OWNERS: Southern California Edison Company

2244 Walnut Grove Avenue

Rosemead, CA 91770

San Diego Gas and Electric Company

101 Ash Street

San Diego, CA 92112

City of Anaheim

Public Utilities Department City Hall West - 11th Floor

201 S. Anaheim Blvd. Anaheim, CA 92805

City of Riverside

Public Utilities Department

3900 Main Street Riverside, CA 92522

AUTHORIZED INSPECTION

Arkwright Mutual Insurance Company Factory Mutual Engineering Association AGENCY: 333 City Blvd. West, Suite 1500

Orange, CA 92613-5409

PLANT:

San Onofre Nuclear Generating Station

14000 Basilone Road, 4 Miles South of

San Clemente, CA 92674-0128

COMMERCIAL OPERATING DATE: April 4, 1984

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2.0 ABSTRACT OF EXAMINATIONS AND TESTS

Lists of the completed examinations and tests are included in Attachments 9.0 and 10.0, respectively. Brief summaries of the examinations and tests that were performed and the status of the examinations and tests for the first ten year inspection interval are included in the following sections.

2.1 Examinations

The piping volumetric and surface examinations for Code Category B-J and C-F were performed to satisfy the alternative examination requirements defined in Relief Request No. B-8. This relief request was approved by the NRC on December 3, 1992.

2.1.1 Reactor Pressure Vessel - Zone 1

Examinations of selected reactor pressure vessel (RPV) and adjacent piping components were performed by Southwest Research Institute (SwRI) using automated visual (AVT) and automated ultrasonic (AUT) techniques. The AVT examinations were performed on the RPV interior using the Power and Remote (PaR) ISI-2 Device with a mounted camera. The entire vessel interior (Code Item No. 13.10) was examined except for the areas that were inaccessible such as behind the flow skirt on the lower head. The core barrel and the upper guide structure (Code Item No. B13.30) were examined using a pole and camera configuration which was operated manually.

AUT examinations were performed on the RPV welds from the inside surface (ID) utilizing the PaR ISI-2 Device with Fast PaR and Enhanced Data Acquisition System (EDASTM) equipment. The examination areas included nozzle-to-shell welds (Code Item No. 3.90) from the bore and vessel wall, nozzle inner radius sections (Code Item No. 3.100), nozzle integral extensions (Code Item No. B9.11), vessel shell welds (Code Item Nos. B1.11 and B1.12), and lower head welds (Code Item Nos. B1.21 and B1.22). The reactor coolant system piping circumferential welds (Code Item No. B9.11) in the inlet nozzle extension piece and elbow and the elbow longitudinal seam welds (Code Item No. B9.12) were also examined from the ID.

Further details of the AVT and the AUT examinations are documented in the SwRI Final Report (Project No. 5970).

Other Zone 1 examinations included manual volumetric (UT) examinations on 18 flange ligaments (Code Item No. B6.40); and

visual (VT-1) examinations on 4 closure washers (Code Item No. B6.50).

2.1.2 Reactor Pressure Vessel Closure Head - Zone 2

The RPV Closure Head received a surface examination (MT) on the flange-to-torus weld (Code Item No. B1.40) and a volumetric examination (UT) on the dome weld. These were the final weld examinations on the closure head for the first inspection interval.

A total of 14 instrument nozzle welds (Code Item No. B9.11) received a surface examination (PT) and a total of 6 instrument nozzle welds received both surface (PT) and volumetric (UT) examinations. A total of 51 CEDM housing welds (Code Item No. B14.10) received a surface (PT) examination.

2.1.3 Other Class I Components

A total of 6 surface (MT) weld examinations were completed on the steam generators primary side (Zones 3 and 4). These examinations covered Code Category B-J (Item No. B9.11) for the inlet and outlet nozzle-to-extension piece welds.

Surface (PT) examination was completed on one pressurizer (Zone 5) safety nozzle weld (safe end-to-pipe cap @ 45°, Code Category B-J).

Volumetric (UT) and surface (PT and MT) examinations were performed on 87 reactor coolant primary piping welds (Zones 6 - 15, Code Categories B-J and B-F).

The support integral attachment weld for three reactor coolant pumps (MP-001, -002 and -003) received a surface (PT) examination per Code Category BK1.

All the casing closure studs and bolting (nuts and washers) for reactor coolant pump MP-004, Zone 38, received in place volumetric (UT) examinations per Code Category BG1, Item No. B6.180 and visual (VT-1) examinations per Item No. 6.200. The pump casing scroll welds and casing internal pressure boundary surfaces received visual (VT-1 and VT-3) examinations per Code Categories BL1 and BL2, Item Nos. B12.10 and B12.20, and Code Case N-481.

All the heat exchanger-to-driver studs and nuts, and seal housing-to-flange capscrews for reactor coolant pumps MP 302 and -004 (Zones 37)

and 38) received visual (VT-1) examinations per Code Category BG2, Item No. B7.60.

For the remaining Class 1 Zones (16 - 41) volumetric (UT) and surface (PT) examinations were performed on 177 piping welds per Code Category B-J; surface (PT) examinations were performed on 4 body welds in two valves per Code Category BM1; visual (VT-1) examinations were performed on 2 valve internal body surfaces per Code Category BM2; visual (VT-1) examinations were performed on bolting for 10 valves per Code Category BG2; and surface (PT) examinations were performed on 2 integral attachments for piping per Code Category BK1.

2.1.4 Class 2 Components - Zones 42 through 134

The letdown heat exchanger girth welds (Zone 81) received a volumetric (UT) examination per Code Category C-A.

The secondary side of the steam generators (Zones 42 and 43) received volumetric (UT) and surface (MT) examinations on the main feedwater nozzle-to-extension piece welds and the main steam nozzle-to-extension piece weld per Code Category C-F.

The nozzle-to-reinforcing plate and reinforcing plate-to-shell welds in both shutdown cooling heat exchangers (Zones 74 and 75) were surface examined (MT) per Code Category C-B.

Volumetric (UT) and surface (MT and PT) examinations were performed on 102 piping welds that were selected per Code Category C-F, 1977 Edition, Summer 1979 Addenda; and surface (PT) examinations were performed on 364 piping welds that were selected per Code Category C-F, 1974 Edition, Summer 1975 Addenda.

Surface (PT and MT) examinations were performed on 2 piping integral attachments that were selected per Code Category C-C, 1977 Edition, Summer 1979 Addenda and 17 piping integral attachments that were selected per Code Category CE1, 1974 Edition, Summer 1975 Addenda.

Surface (MT) examinations were performed on the body welds of two valves per Code Category C-G.

2.1.5 Class I and 2 Component Supports

Visual (VT-3 and VT-4) examinations were performed on 44 component supports per Code Categories F-B and F-C, 1977 Edition, Summer 1979 Addenda, and 16 component supports per Code Category CE2, 1974 Edition, Summer 1975 Addenda.

2.1.6 Augmented Examinations

The motor flywheel bore and keyway of all four reactor coolant pumps (MP001, 2, 3 and 4, Zones 35 - 38) received a volumetric (UT) examination; and the entire flywheel of all four reactor coolant pumps received both a surface (MT) and volumetric (UT) examination per Regulatory Guide 1.14.

Volumetric examinations (UT) were performed on the LP1 Rotor (PF 146153) of the low pressure turbine by GEC Alstrom Turbine Generators Limited and documented in Report No. RM93/015, November 1993.

Volumetric (UT) and surface (MT and PT) examinations were performed on 100 Class 2 pipe welds in high energy lines per Code Category C-F. These welds were selected in accordance with UFSAR 3.6A.2.4.3 and NRC Information Notice 93-20.

2.1.7 Steam Generator Tubes

The steam generator tube examinations were performed in accordance with the technical specifications and the results are included in Attachment 11.0.

2.2 Tests

As addressed in this report tests refer to the System Pressure Test requirements of IWA-5000. These pressure tests include IWB-5000 for Class 1 systems and IWC-5000 for Class 2 systems. A list of the pressure tests that were performed is included as Attachment 10.0.

2.2.1 Class 1

As required by Table IWB-2500-1 Category B-P a System Leakage Test was conducted on all Class 1 Code Items during the refueling outage in accordance with IWB-5221 at nominal operating pressure and temperature. Utilizing Code Case N-498, this test also satisfies the first

interval system hydrostatic pressure test of IWB-5222 on all the Code Items with the Class 1 boundaries. The boundaries include the Reactor Coolant System and connecting systems up to, and including the second boundary valve.

2.2.2 Class 2

As required by Table IWC-2500-1 Category C-H system functional and inservice tests were conducted on Class 2 Code Items in accordance with IWC-5221 at nominal operating pressure and temperature. Utilizing Code Case N-498, these tests also satisfy the first interval system hydrostatic pressure test of IWC-5222 on all the Code items with the Class 2 boundaries.

2.3 Design Changes

A design change (DCP 3-6863.00SN) was made to the plant that added 225 nonexempt Class 2 pipe welds and 30 nonexempt Class 2 pipe supports that received preservice surface (PT) and visual (VT-3) examinations. This design change connected the suction side of the Containment Spray Pumps to the Spent Fuel Pool suction header and the Shutdown Cooling suction header to the Low Pressure Safety Injection Pumps to allow the Containment Spray Pumps to be used as backup pumps for either spent fuel pool cooling or reactor shutdown cooling.

2.4 Status of Examinations and Tests

2.4.1 First Ten Year Interval

The percent of Class 1 and 2 examinations and tests that were completed during each period of the first ten year interval are shown in Attachment 6.0 for each Code Category and Item Number. At the start of the third period 59% of the selected examinations and tests were completed. This compares to the Code required percentage of between 50-67%. At the end of the 6th refueling outage 117% of the selected examinations and tests were completed, which more than satisfies the interval examination and test requirements for Class 1 and 2 components and supports.

Most of the additional examinations and tests (+17%) at the end of the 6th refueling outage were for substitute piping welds that took the place of welds that did not receive an entire volume or surface examination due to scar limitations, design interferences or ALARA concerns; and did not receive adequate documentation of the volume or area examined

to be able to use the alternative examination rules in Code Case N-460.

2.4.2 Inaccessible examinations

There are a total of 22 non-exempt welds in Category CF² in the Chemical and Volume Control System (CVCS). Of those 22 welds the Code requires an examination of 25% percent (six welds). The ISI program scheduled 15 of the 22 welds to be examined, or nine more than necessary

The decision to add more welds to the schedule than was required was made early in the development of the first inspection interval ISI Program to assure that the minimum percentages required by the Code would be met.

During the sixth refueling outage it was discovered that the nine wells on the Regenerative Heat Exchanger were located in a high radiation area. Examining this nine welds could have resulted in exposure in excess of 9 REM. Since the minimum Code requirements had alrady been met for this category it was decided to remove the nine extra welds from the ISI schedule.

The following is a list of the nine welds not examined, which were addressed in the ISI Program, but were not required by the Code to be examined:

03-080-010

03-080-020

03-080-030

03-080-040

03-080-050

03-080-060

03-080-070

03-080-080

03-080-090

² These nine welds were also addressed in the March 20, 1992 letter from SCE to the NRC pertaining to Relief Request B-8

3.0 ABSTRACT OF RESULTS

3.1 Examinations

3.1.1 Reactor Pressure Vessel - Zone 1

During the AVT examinations of the upper guide structure and core barrel, wire ties, filter tool and erosion-like indications were found on the core barrel and reported. The AVT examination of the RPV interior revealed various debris, wire, erosion-like indications, paper, and metal and tube like objects which were reported. These various debris were removed and a final visual examination showed that no corrective actions were necessary.

The AUT examinations revealed 18 Code allowable AUTOL laminar indications on welds 03-001-003, 03-001-009, 03-001-014, 03-001-015, 03-001-017, 03-001-018, 03-001-019, 03-001-020, 03-001-021, 03-001-022, 03-001-023, 03-001-024, 03-001-025, and 03-001-026. Also, Code allowable 60°, and 50°/70° indications were found on welds 03-001-004, 03-001-007, 03-001-009, 03-001-010, 03-001-011, 03-001-012, 03-001-013, 03-001-014, and 03-001-016. These indications were sized, determined to be Code allowable, and were reported with no corrective actions necessary.

Detail reports of the AVT and the AUT examinations have been documented in the SwRI Final Report (Project No. 5970).

3.1.2 All Other Zones

Indications were detected in 35 Class 1 and 2 examination areas and are listed in Attachment 7.0. Of these examination areas, 8 had insignificant indications, 3 had significant indications, and 24 had geometric indications. The 3 examination areas that had significant indications were the feedwater nozzle to extension piece weld at Steam Generator ME088 (Weld No. 03-043-043, Exam Report No. 393-07IUT-051); spring settings for hanger S3-FW-222-H006 (ISI ID No. 03-047-480, Exam Report No. 393-07IVT-034); and spring settings for hanger S3-FW-223-H001 (ISI ID No. 03-046-610, Exam Report No. 393-07IVT-020).

NCR 93110084 was prepared for Weld No. 03-043-043; NCR 93110087 was prepared for ISI ID No. 03-046-610; and NCR 93110014 was prepared for ISI ID No. 03-047-480 for further corrective actions. The corrective actions for the indications in these examination areas are

reported in Section 4.0.

3.1.3 Low Pressure Turbine - LP1 Rotor

No evidence of stress-corrosion cracking was found on or adjacent to either the disc bores or the dowel holes.

3.2 Tests

A total of 15 ¹/T-2 visual examinations were performed during the system pressure tests on the Class 1 and 2 component pressure boundaries with satisfactory results.

4.0 ABSTRACT OF CORRECTIVE ACTIONS

4.1 Examinations

4.1.1 Weld No. 03-043-043, NCR 93110084, MO 93111220000

The UT examination at 45° revealed two ID surface planar indications that were 5.41" and 4.14" in length and approximately 0.15" in depth. (Exam Report No.393-07IUT-051). The pipe was cut open at Weld Nos. 03-045-360 and -310 to access the examination area for Weld No. 03-043-043, and surface exam 3MT-098-93 was performed to accurately size and locate the indications. Since the indications did not penetrate the piping wall enough to violate minimum wall thickness requirements, the indications were removed by grinding and the area was reexamined per surface exam 3MT-102-93 to verify that indications were completely removed. Following the welding to reconnect the piping at Weld Nos. 03-045-360 and -310, and post weld heat treatment, baseline or preservice UT examinations 393-07IUT-053 and 393-07IUT-060 were performed at Weld No. 03-043-043 to reverify that the indications had been removed from the examination area and that the minimum wall thickness within the examination area met the design specification requirements. Preservice UT and MT examinations were also performed on the new welds for Weld No. 03-045-360 (393-07IUT-052 and 3MT-115-93) and Weld No. 03-045-310 (393-07IUT-058 and 3MT-114-93).

4.1.2 ISI ID No. 03-046-610, NCR 93110087, MO 93111129000

A visual examination (393-07IVT-020) found the cold setting of this spring hanger to be 1375 lbs, which exceeded the tolerance for the design cold setting of 1529 lbs per Specification CS-P207. The spring was reset to meet the specification requirements and visual exam 393-07IVT-080 was performed to verify proper setting. In accordance with Code Paragraph IWF-2430 additional visual exam 393-07IVT-072 was performed on support S3-FW-223-H-016 (03-046-760) and additional visual exam 393-07IVT-074 was performed on support S3-FW-223-H004 (03-046-640). The spring settings for these supports were found within specification requirements.

4.1.3 ISI ID No. 03-047-480, NCR 93110014, MO 9311.125000

A visual examination (393-07IVT-034) found the cold setting of the east and west spring hangers to be 380 lbs and 400 lbs, which exceeded the tolerance for the design cold setting of 850 lbs per Specification CS-

P207. Also, a 5/8" hex nut was found loose on both spring cans. The springs were reset to meet the specification requirements and visual exam 393-07IVT-079 was performed to verify proper settings and that the loose nuts were made snug tight. In accordance with Code Paragraph IWF-2430 additional visual exam 393-07IVT-069 was performed on support S3-FW-222-H-009 (03-047-510). The spring cold settings for this support (684 lbs and 745 lbs) were also out of tolerance, were reset, and visual exam 393-07IVT-081 was performed to verify proper spring settings.

5.0 ABSTRACT OF REPAIRS AND REPLACEMENTS

UNIT 3 CYCLE 7 ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

MO	Traveler	EQ1D	Class	NIS-2	Workdesc
8905288, 201		3HV0514	111-2	2/15/94	REPLACED PIPE PLUG
89061826001		S31204MU016	111-2	5/12/93	REPLACED DISC & LEAK-OFF PLUS
90052265000		3PSV9206		1/14/94	
91060245000		\$31212MR182	111-2		REPLACED VALVE DISC
91121216000		3F16262		3/09/93	
92031609000		S31204MR319	111 1	1/17/94	
92032181001		\$31201MR042		12/22/92	
92032539001		S31201MP004		3/07/94	
92041456000		3LT0313		7/22/92	
92041841000		S31201MP004		8/21/92	
92041904000		3HV8202		2/09/94	
92050018000		\$31206MU022		12/28/93	
		3TE01251		1/17/94	
92051610000		531208MU067		11/23/92	
		S31201MP002		3/03/94	
92060992000		\$3\$\$037H003		12/28/93	
92061348000		531208MU083		1/17/94	
92071063000		3HV0514		1/14/94	
92072548001		31.T01102		2/02/94	
		\$31201MR043		1/20/93	
92090262000		3PSV8155		3/09/93	
		531204MP019		2/05/93	
92091721001		S31204MR176		12/17/92	
92091726000		531204MR176		12/17/92	
92091740000		S31204MR176		12/17/92	
92091792000		3P5V9221		1/14/94	
92091794000		531201MP004		3/07/94	
		3P\$V8410		1/14/94	
		3PSV8411		1/14/94	
92091829000		3P5V8415		1/14/94	
		3PSV8403		1/14/94	
92091831000		3PSV8414		1/14/94	
92091836000		024-43877			REDRILLED IST HOLES
		3HV0513			REPLACED VALVE PLUG
		3HV0512			REPLACED INNER VALVE
		S312D4MR320	III-I		
92100117000		3LT03054		7/16/93	
92111288000		\$31201MR038	113-1		
92111356000		\$31201ME613	111-1	1/14/94	REPLACED PZR HEATER
92111357000		\$31201ME623	[1]-1	1/14/94	
92112758001		S31204ML085	111-1	1/14/94	REPLACED PORTION OF PIPING
92120994000		S31201ME620	111-1		REMOVED HEATER SEAL WELD
92121424000		3PSV8154	111-2	3/02/94	REPLACED DISC, SPRING/WASH, SPINDLE, BASE
93010738000		3PSV0200	111-1	1/14/94	REPLACED VALVE, INLET STUDS & NUTS
93010745000		3PSV0201	III-1	1/14/94	REPLACED VALVE
93012466000					
		\$31201MR040		2/15/94	REPAIRED/WELDED BODY/BONNET JOINT
93020105000		S31201MP001	III-1	2/15/94	REPLACED MECHANICAL SEAL CARTRIDGE
93020823000		S31301ME089P	111-1	1/14/94	REPLACED MANWAY STUDS & GEARED NUTS
93021747000		- 3PSV9349	111-5	1/06/94	REPLACED VALVE

UNIT 3 CYCLE 7 ABSTRACT OF PECORDS OF REPAIRS AND REPLACEMENTS

МО	Traveler	EQID	Class	NIS-2	Workdesc
93030293000		S3S1003H005	111-2	3/08/94	REPLACED SPRING CAN
93030294000		S3S1004H005	111-2	3/08/94	REPLACED SPRING CAN
93030750000		53-1301-ML-363	111-2	3/08/94	INSTALLED WELDOLET FOR ML363
93030753000		53-1301-ML-583	111-2	3/08/94	INSTALL WELDOLET ON ML583
93030775000		53-1301-ML-578	111-2	3/08/94	PREFAB BYPASS LINE
93030792000		S3-1301-ML-004	111-2	3/08/94	INSTALL 3HV8200 BYPASS LINE
93030795000		\$3-1301-ML-004	111-2	3/08/94	INSTALL SHV8200 BYPASS LINE
93030796000		53-1301-ML-578	111-2	3/08/94	INSTALLED BYPASS LINE ML578
93030808000		S3-1301-ML-578	111-2	3/08/94	INSTALLED BYPASS LINE ML578
93030819000		\$3-1301-ML-004-4"	1/1-2	3/08/94	PREFAB BYPASS LINE
93030833001		53-1301-ML-004-4"	111-2	3/08/94	INSTALL PREFAB LINE
		53-1301-ML-578-4	111-2	3/08/94	PREFAB BYPASS LINE
93030895001		\$3-1301-ML-578-4"	111-2	3/08/94	PREFAB BYPASS LINE
93031067000		53-1301-ML-004	111-2	3/08/94	PREFAB BYPASS LINE
93032459000		S31206MP012	111-2	3/07/94	LPSI/GROSSTIE HYDRO
93041428000		535T001H014,H022E-W	111-2	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041429000		\$3\$T001H031	111-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT, BRACKETS
93011430000					
		\$387363H002	111-5	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93041435000		\$3\$T580H00Z \$3\$T001H013A-B	111-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT, BRACKETS
93041457000		\$3\$T001H029		1/17/94	SPRING HANGER DELETIONS
				12/28/93	SPRING HANGER DELETION
93041472000		\$3C\$004H006		1/25/94	SNUBBER DELETION
93041475000		\$3C\$004H056		12/28/93	SNUBBER DELETION
93041478000		S3CS004H007		1/25/94	SNUBBER DELETION
93041484000		\$3C\$004H002,H043		2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041537000		53C5004H014,053,054		12/28/93	SNUBBER DELETIONS
93041543000		S3CS004H028	111-5	2/25/94	REPLACED SNUBBER W/RIGID STRUT, BRACKETS
93041551000		S3CS004H048E		2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041562000		S3CS031H003	111-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93041588000		S3FS057H098B-T	111-5	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041614000		S3VC007H010		12/28/93	SNUBBER DELETION
93041627000		53VC007H017	111-5		REPLACED SWAY STRUT W/RIGID STRUT, &BRKTS
93041938000		\$3\$T016H704,714,727,731	111-5	1/17/94	SNUBBER DELETIONS
93041939000		S3ST018H706,H716	111-5	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041940000		S3STG16H701		2/02/94	REPLACED SNUBBER & MOUNTING HARDWARE
93041942000		\$3\$T001H059	111-2	12/28/93	SNUBBER DELETION
93041943000		\$3\$T001H060,H062,H065	111-5	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041944000		S3S1085H042	111-1	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93042050000			111-5	12/28/93	SNUBBER DELETION
93042132000		53S1132H002	111-2	1/17/94	SNUBBER DELETION
93042134000		53CS020H001	111-5	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93042135000		S3RC094H009	111-2	12/28/93	SNUBBER DELETION
93042136000		S3RCQ96HQ25	111-2	12/28/93	SNUBBER DELETION
93042139000		\$3\$1018H702,706-07, 713,722-23	111-2	12/28/93	SNUBBER DELETIONS
93042140000		S3ST018H709	111-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93042170000		53S1166H002	111-1	12/28/93	SNUBBER DELETION
93042177001		S3ST016H00F	111-2	1/25/94	REPLACED TRANVERSE PIPE STOP
93050031000		S31204MP015	111-2	2/08/94	INCREASED WELD SIZE OF PUMP FEET
93050032000		S31204MP016	111-2		INCREASED WELD SIZE OF PUMP FEET

LINIT 3 CYCLE 7 ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

мо	Traveler	EQ10	Class	NIS-2	Workdesc
93050033000		S31206MP012	111-2	2/08/94	INCREASED WELD SIZE OF PUMP FEET
93050034000		\$31206MP013	111-2	2/08/94	INCREASED WELD SIZE OF PUMP FEET
93050055000		S31204MU027	111-1	1/14/94	REPLACED HINGE PIN COVER STUDS & NUTS
93050056000		S31204MU031	III-1	1/14/94	REPLACED HINGE PIN COVER STUDS & NUTS
93051469000		S31204MP015	111-5	2/04/94	LPSI PUMP SEAL PIPING MOD
93051471001		S31204MP016	111-2	2/04/94	PREFAB PUMP PIPING
93051484000		S31204MP015	111-2	2/04/94	LPSI PUMP SEAL PIPING MOD
93051488000		531204MP016	111-2	2/04/94	INSTALL/MOD LPSI PUMP PIPING
93051505000		\$31204MP015	111-2	2/04/94	LPSI PUMP SEAL PIPING MOD
93051507000		S31204MP016	111-2	2/04/94	MOD PUMP CONNECTIONS TO ACCEPT PIPING
93051508000		S31204MP015	111-5	2/04/94	LPSI PUMP SEAL PIPING MOD
93051524000		S31204MP016	111-2	2/08/94	MODIFIED TUBING FOR HIGHER ELEV OF PUMP
93061877000		\$31204MU027	111-1	1/14/94	FAB'D STUDS FROM ALL-THREAD
93072200000		3PSV8406	111-2	1/14/94	REPLACED VALVE & INLET FLANGE NUTS
93080291000		\$31204MP016	111-2	2/04/94	MOD PUMP CONNECTIONS TO ACCEPT PIPING
93080872001		3-6863.00	111-2	3/07/94	PSE FOR CROSSTIE DCP
93080904001		S31203MP1018	111-2	2/24/94	
93080905001		S31203MP1019			SEISMIC UPGRADE OF COW MAKE-UP
93080938000			111-2	2/24/94	SEISMIC UPGRADE OF CCW MAKE-UP
93080939000		S31204MU156	111-1	2/02/94	REPLACED HINGE PIN COVER STUDS & NUTS REPLACED HINGE PIN COVER STUDS & NUTS
		\$31204MU152 \$31204MU029	111-1	1/14/94	
93080940000		\$31204MU033	Hiel	1/14/94	REPLACED HINGE PIN COVER STUDS & NUTS
			111-1	1/14/94	REPLACED HINGE PIN COVER STUDS & NUTS
93081174000		3HV4052 VT-3 EXAM	111-5	1/14/94 3/08/94	REPLACED/SW PIPE PLUGS, REPLACED BONNET VT3 EXAMS OF PIPE SUPPORTS
93081774000		3HV9364			
93081775000		3HV9374	111-2	1/14/94	REPLACED MAIN DISC
93090430000		3HV6569			REPLACED VALVE DISC
93091266000			111-2	2/24/94	SEISMIC UPGRADE OF CCW MAKE-UP
93091444001		\$31206MU018 (\$31208MU014)	111-2	3/07/94	HYDRO FOR SO3-93-006
93100554001		\$31201MU021			REPLACED FLANGE STUDS & NUTS(UPSIM VLV)
93100613001			111-1	1/14/94	REPLACED VALVE & UPSTREAM PIPE
93100614000		\$3FW189H010B \$3FW189H010T	111-2	2/15/94	REPLACED SNUBBER
		S3FW190H014T	111-2	3/04/94	REPLACED SNUBBER
93100716060		\$31208MR247		12/29/93	REPLACED SNUBBER
93100721000		\$31208MR084			REPLACED VALVE DISC
93100722000		\$31208MR144			
93100726000		\$31212MU010	111-2	1/14/94	REPLACED VALVE DISC
93100822002		531219MU052		1/25/94	MACHINED AND REPLACED VALVE DISC
93100833000			111-2	1/25/94	
93100845000		\$31301ME088 \$35T016H715	111-1	2/24/94	REPLACED HANDHOLD STUDS & NUTS
93100907000		S3RC012H057			REPLACED SNUBBER
			111-1	1/07/94	REPLACED LOAD PIN
93100952000 93100987000		531301ME088 53VC008H023	111-1	2/24/94	REPLACED MANWAY COVER STUDS & NUTS REPLACED SNUBBER
93101215000					
93101215000		\$3FW189H012 \$3FW189H013B	111-2	1/06/94	REPLACED SNUBBER
93101314000		\$3\$1014H012		12/28/93	REPLACED SNUBBER
93101314000		\$31204MU015	111-2	1/17/94	REPLACED SNUBBER
93101357000			111-2	3/02/94	REPLACED VALVE DISC
93101532001		\$35T014H011 \$31201MU114		12/28/93	REPLACED SNUBBER
20101225001		22750190114	111-5	1/06/94	REPLACED VALVE DISC

UNIT 3 CYCLE 7 ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

MO	Traveler	EQ10	Class	N15-2	Workdesc
93101612000		3PSV8403		1/14/94	ATTACHED MFR NAMEPLATE
93101625000		S3S1045H013		12/28/93	REPLACED SNUBBER
93101679000		S31219MR050		2/07/94	REPLACED VALVE AND NIPPLE
93101730000		3PSV8406	111-2		
93101731000		3P5V8410		1/14/94	ATTACHED MFR NAMEPLATE
93101732001		3PSV8411		1/14/94	ATTACHED MFR NAMEPLATE
93191733001		3PSV8414		1/14/94	ATTACHED MFR NAMEPLATE
93101734001		3PSV8415		1/14/94	ATTACHED MFR NAMEPLATE
93101740000		\$3\$1045H016T		12/28/93	REPLACED SNUBBER
93101741000		53RC079H001		12/28/93	REWELDED PIPE SUPPORT
93101742000		S312D4MP016		2/04/94	MOD LPSI PUMP SEAL PIPING
93101798000		S31201ME620	111-1		INSTALL/SEAL WELD HEATER PLUG
93101799000		531201ME623			INSTALL/SEAL WELD HEATER PLUG
93101808000		\$3RCP01H001	111-1	1/25/94	REPLACED SNUBBER CONTROL VALVE
93101813000		S3S1044H004	111-1		REPLACED SNUBBER
93101833000		PZR PLUGS	111-1	3/02/94	FAB'D PZR HEATER PLUG
93101852001		S31201MU994	111-5	2/04/94	REPAIRED VALVE BODY LINEAR INDICATION
93110025000		S31301ME089	111-1		REPLACED MANWAY COVER STUDS & NUTS
93110065000		5351152H001	111-1		REPLACED SNUBBER
93110116000		3HV0517	111-5	3/11/94	REPLACED VALVE PLUG, BONNET STUDS/NUTS
93110138000		S3S1087H018	111-5	2/02/94	REPLACED PIPE CLAMP, ADDED SPACERS
93110201000		\$31208MU061	111-2	1/17/94	REPLACED VALVE DISC
93110214001		S351014H012	111-2	2/09/94	REPLACED SNUB, BRACKTS, TRANS TUBE, SPACER
93110235000		3HV8202	111-5	2/09/94	CUT STUDS FROM ALL-THREAD
93110631000		\$31301MED89P	111-1	1/25/94	MACHINED PLUGS
93110649000		\$3C\$001H015	111-2	1/25/94	REPLACED SNUBBER
93110776000		\$3C5001H015	111-5	1/25/94	REPLACED FORWARD BRACKET & BOLTS
93110824000		\$31204MU003	111-2	12/29/93	REPLACED FLANGE STUD
93110832000		S3S1003H017	111-5	1/14/94	REPLACED SNUBBER
93110895000		\$31201MP004	111-1	12/28/93	REPAIRED SUPPORT LINK ARC STRIKE
93111108001		\$31305ML189 (\$31301ME088)	111-2	2/24/94	REMOVE/REINSTALLED GAMMA PLUG
93111134000		S3ST580H002	111-2	2/25/94	MACHINED END PADDLES
93111150000		\$31305ML189 (\$31301MED88)	111-2	2/24/94	REINSTALLED PIPE SPOOL
93111157000		\$31305ML189 (\$31301ME088)	111-5	2/24/34	REINSTALLED PIPE SPOOL
93111195001		3HV9354	111-2	3/02/94	REPLACED VALVE DISC
93111208001		\$31206MUI04	111-2	2/08/94	REPLACED VALVE DISC
93111219000		\$31305ML189 (\$31301ME088)	111-5	2/24/94	FAB'D GAMMA PLUG
93111220001		\$31305ML189 (\$31301ME088)	111-2	2/24/94	REPAIRED SAFE-END
93111311000		\$3\$T001H022E	1.1-2	1/14/94	REPLACED LOAD PIN
93111494000		\$3\$TQ02H061	111-2	2/02/94	REPLACED SNUBBER
93111537000		\$31305ML189 (\$31301ME088)	(11-2)	2/24/94	REPAIRED ELBOW
93111783000		\$31305ME190 (\$31301ME089)	111-2	2/24/94	REINSTALLED SPOOL PIECE, REPL GAMMA PLUG
93111786000		S31305MI 190 (S31301ME089)	111-2	2/24/94	REINSTALLED SPOOL PIECE
93111810000		\$31JU5ML190 (\$31301ME089)	111-2		REPAIRED ELBOW
93111903000		531305ML190 (531301ME089)	111-2		REMOVED/REINSTALL GAMMA PLUG
93111904000		S31301ME089		2/24/94	REPAIRED SG SAFE-END
93111909001		\$31104CEDM	111-1		SEAL WELDED HOUSING NUT
93111951000		531305ML190 (531301ME089)		2/24/94	FAB'D GAMMA PLUG
93112099001		\$31206MU104		2/08/94	PERFORMED PRESSURE TEST

UNIT 3 CYCLE 7 ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

MO	Traveler	EQID	Class	NIS-2	Workdesc
93112103000		\$3FW:R9H010B	111-2	1/17/94	REPLACED SNUBBER
93120130000		FGD-J3-PT0313	111-2	2/01/94	REPLACED TUBING & TUBING TEE
93120875909		531201MP002	111-1	3/03/94	REPLACED MECHANICAL SEAL CARTRIDGE
91041421000	S03-91-006	\$31204MR028	111-2	8/04/92	INSTALLED NEW VALVE & 1/2" TUBING
91041416000	503-91-007	S31204MR088	111-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041427000	503-91-008	\$31204MR089	111-2	8/04/92	INSTALLED NEW VALVE & 1/2" TUBING
91041423000	503-91-009	S31204MR367	111-5	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041417000	803-91-010	S31204MR106	111-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041429001	503-91-011	531204ML110	111-2	9/11/92	REDESIGN 1/2" TUBING, NEW ISOL VALVE
91041431000	503-91-012	S31204MR133	111-2	8/04/92	INSTALLED NEW VALVE & 1/2" TUBING
91041419000	503-91-020	S31204MR279	111-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041433000	803-91-021	S21204MR356	111-2	8/04/92	INSTALLED NEW VALVE & 1/2" TUBING
91041358000	\$03-91-022	S31204MR368	111-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041413000	803-91-023	S31204MR395	111-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041414000	503-91-024	S31204MR538	111-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
	503-93-001	\$31201ML321,ML134	111-2	3/07/94	CROSS-TIE ML321 TO ML134, MOD PIPE SUPP
		\$31201ML001,002,032,033	111-2	3/07/94	ADD HX BLOCK VALVES & THERMOCOUPLES
	S03-93-003	\$31204ML003,004	111-2	3/07/94	TIE-IN MLB21 TO MLD03, 4, MOD PIPE SUPP
	503-93-004	S31204ML038	111-2	3/07/94	ADD HX BLOCK VALVE & THERMOCOUPLE
	503-93-006	\$31206ML063,ML063		3/07/94	TIE-IN ML063,ML064 FOR SFC,MOD PIPE SUPP
93072301000	503-93-007	\$3\$\$001HONK	111-2	1/27/94.	MODIFIED PIPE SUPPORT
	503-93-009	\$31301ME089P	111-1	1/25/94	REPLACED WELDED TAPER PLUGS
ASMEMO PR					

ATTACHMENT 6.0

FIRST TEN YEAR INTERVAL ISI STATUS

UNIT 3 FIRST TEN YEAR INTERVAL ISI STATUS Inspection Frequency Class 1 and 2

Exam	Plant	0/0	Num.	1st Per.	16%-34%	2nd Per.	50%-67%	3rd Per.	100%	Nun
Cat.	Total	Req.	Req.	Number	% Done	Number	% Done	Number	% Done	Don
B-A	27	100%	27	1 2	7%	3	19%	22	100%	27
B1.11	2	100%	2	0	0%	0	0%	2	100%	2
B1.12	9	100%	9	0	0%	0	0%	9	100%	9
B1.21	3	100%	3	0	0%	0	0%	3	100%	3
B1.22	11	100%	11	2	18%	3	45%	6	100%	- 11
B1.30	1	100%	1	0	0%	0	0%	1	100%	1
B1.40	1	100%	1	0	0%	()	0%	1	100%	1
B-B	37	100%	37	3	8%	16	51%	18	100%	37
B2.11	3	100%	3	1	33%	1	67%	1 1	100%	3
B2.12	4	100%	4	2	50%	0	50%	2	100%	4
B2.31	8	100%	8	0	0%	4	50%	4	100%	8
B2.32	10	100%	10	0	0%	5	50%	5	100%	10
B2.40	12	100%	12	0	0%	6	50%	6	100%	12
B-D	34	100%	34	6	18%	6	35%	22	100%	34
B3.90	6	100%	6	2	33%	0	33%	4	ALCOHOL STATE OF THE PARTY OF T	artis in the State of
B3.100	6	100%	6	2	33%	0	33%	4	100%	6
B3.110	5	100%	5	1	20%	0	20%	4	100%	6
B3.120	5	100%	5		20%	0	20%	4	100%	5
B3.130	6	100%	6	0	0%	3	50%	3	100%	6
B3.140	6	100%	6	0	0%	3	50%	3	100%	6
B-F	28	100%	28	9	32%	17	93%	2	100%	28
B5.20	5	100%	5	2	40%	2	80%	1	CALL THE CONTRACT OF THE PARTY OF	THE REAL PROPERTY.
B5.50	23	100%	23	7	30%	15	96%	1	100%	5
B-G-1	408	65%	264	90	34%	94	70%	244	100%	23
B6.10	54	100%	54	18	33%		CONTRACTOR STREET, STR	141	123%	325
B6.30	54	100%	54	36	67%	19	69%	17	100%	54
B6.40	54	100%	54	18	33%	19 18	102% 67%	36	169%	91
B6.50	54	100%	54	18	33%	38	104%	18	100%	54
B6.180	64	25%	16	0	0%	0	0%	16	144%	78
B6.200	128	25%	32	0	0%	0	0%	32	THE RESERVE AND PARTY OF THE PA	16
B-G-2	466	WEST OF THE PARTY	179	8	4%	Same	TO SECURE A SECURE ASSESSMENT OF THE PARTY O	213	100%	32
B7.20	20	100%	20	0	0%	0	TOUR PROPERTY OF THE PARTY OF T		126%	226
B7.30	160	50%	80	0	0%	0	0%	20	100%	20
B7.60	256	25%	64	0	0%	0	0%	80	100%	80
B7.70	30	50%	15	8	53%	5	87%	96	150%	96
B-H	3	67%	2		30%	1	100%	1/	200%	30
B8.20	1 1	100%	1	MANAGEMENT COMPANY	100%	demonstration of			tiente van bestelde verden van de P	A
B8.30	2	50%		0	The state of the same of the s	0	100%	0	100%	1
		2070	1	U	0%	1	100%	0	100%	1

UNIT 3 FIRST TEN YEAR INTERVAL ISI STATUS Inspection Frequency Class 1 and 2

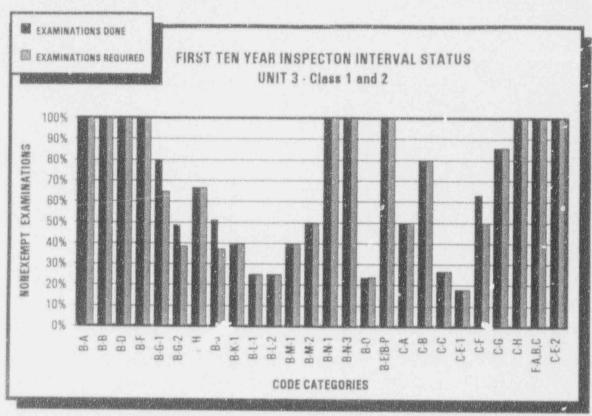
Exam	Plant	9/0	Num.	1st Per.	16%-34%	2nd Per.	50%-67%	3rd Per.	100%	Nui
Cat.	Total	Req.	Req.	Number	% Done	Number	% Done	Number	% Done	Do
B-J	721	37%	268	72	27%	96	63%	200	137%	368
B9.11	373	37%	139	44	32%	45	64%	124	154%	217
B9.12	114	37%	42	12	28%	18	71%	28	137%	58
B9.21	218	37%	81	12	15%	27	48%	42	100%	81
B9.31	16	37%	6	4	67%	6	168%	6	269%	16
B-K-1	97	40%	38	17	44%	10	70%	11	100%	38
B10.10	93	37%	34	17	49%	9	76%	8	100%	34
B10.20	4	100%	4	0	0%	1	25%	3	100%	4
R-L-1	8	25%	2	- A	0%	0	0%	2	100%	2
B12.10	8	25%	2	0	0%	0	0%	2	100%	2
B-L-2	4	25%	1	0	0%	0	0%	1	100%	I
B12.20	4	25%	1	0	0%	0	0%	1	100%	1
B-M-1	16	40%	ti	0	0%	0	0%	6	160%	6
B12.30	16	40%	6	0	0%	0	0%	6	100%	6
B-M-2	10	50%	5	0	8%	0	0%	5	100%	5
B12.40	10	50%	5	0	0%	0	0%	5	100%	5
B-N-1	31	100%	31	0	0%	0	0%	31	100%	31
B13.10	31	100%	31	()	0%	0	0%	31	160%	31
B-N-3	2	100%	2	0	6%	Э	6%	2	100%	2
B13.30	2	100%	2	0	0%	0	0%	2	100%	2
8-0	287	24%	68	9	13%	15	35%	44	190%	68
B14.10	287	24%	68	9	13%	15	35%	44	100%	Minanci
B-E/B-P	6	100%	6	2	33%	2	67%		100%	68
Leakage	6	100%	6	2	33%	2	67%	2 1	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	6
All Items							0770	2	100%	6
C-A	19	50%	10	2	21%	8	100%	9	100%	10
C1.10	10	50%	5	1	20%	4	100%	0	100%	laborous.
C1.20	4	50%	2	0	0%	2	100%	0	100%	5
C1.30	5	50%	3		40%	2	100%	0	100%	3
C-B	16	80%	13	6	0%	9 1	69%	A	100%	13
C2.20	16	80%	13	()	0%	9	69%	4	100%	13
C-C	104	27%	28	0 1	9%	12	43%	16	100%	28
C3.10	10	60%	6	()	()%	5	83%		uttrazzuteszenenne)	023U,33636
C3.40	94	23%	22	0	0%	7	32%	15	100%	6 22
C-E-I	200	18%	36 1	5	14%	11	44%	20	100%	36
C2.5	194	17%	33	5	15%	11	49%	17	TIPOTE INTERNATION IN THE PARTY OF THE PARTY	2722712522
C3.3	6	50%	3	0	0%	0	0%	3	100%	33

UNIT 3 FIRST TEN YEAR INTERVAL ISI STATUS Inspection Frequency Class 1 and 2

Exam	Plant	%	Num.	1st Per.	16%-34%	2nd Per.	50%-67%	3rd Per.	100%	Nam
Cat.	Total	Req.	Req.	Number	% Done	Number	% Done	Number	% Dor.e	Done
C-F	1825	50%	910	365	40%	318	75%	472	127%	1155
C5.11	170	25%	43	35	82%	29	151%	63	299%	127
C5.21	155	25%	39	43	111%	48	235%	72	421%	163
C5.22	45	25%	11	13	116%	10	204%	23	409%	46
C5.31	3	25%	l	2	267%		400%	0	400%	3
C2.1	681	80%	544	190	35%	163	65%	191	100%	544
C2.2	767	35%	268	82	31%	66	55%	120	100%	268
C2.3	4	100%	4	0	0%	1	25%	3	100%	4
C-G	14	86%	12	4	33%	0	33%	8	100%	12
C6.20	6	67%	4	0	0%	0	0%	4	100%	4
C3 1	4	100%	4	2	50%	0	50%	2	100%	4
C4.1	4	100%	4	2	50%	0	50%	2	100%	4
С-Н	63	100%	63	21	33%	21	67%	21	100%	63
Inser/Func All Items	63	100%	63	21	33%	21	67%	21	100%	63
F-A-B-C	342	100%	342	71	21%	131	59%	140	100%	240
F-2	13	100%	13		8%	2		A STATE OF THE PARTY OF THE PAR		342
F-3	181	100%	181	54	30%	CONTRACTOR OF THE PARTY OF THE	23%	10	100%	13
F-4	148	100%	148	16	11%	66	66%	61	100%	181
C-E-2	265	100%		A STATE OF THE PARTY OF THE PAR	THE RESERVE AND ADDRESS OF THE PARTY OF THE	CHARLES CONTRACTOR AND ADDRESS OF THE PARTY	53%	69	100%	148
The second second second	THE PARTY OF THE P	THE RESERVE OF THE PERSON NAMED IN	265	51	19%	74	47%	140	100%	265
C2.6	259	100%	259	51	20%	74	48%	134	100%	259
C3.4	6	100%	6	()	0%	()	0%	6	100%	6
TOTAL	5033	53%	2677	738	28%	848	59%	1543	117%	3130

NOTES

- 1. For Code Item B1.40 the volumetric exam was performed in first period and the surface exam was performed in the third period.
- 2. For the SG primary side exams the longitudinal welds in the extension ring between the head and the tuu-sheet were included as Code Item B2.40.
- 3. Surface exams performed instead of volumetric exams per Technical Evaluation Report SAIC-84/1664 for Code
- 4. The examinations for Code Item B13.10 included a list of 31 specific areas inside the reactor vessel.
- 5. Code Categories and Item Numbers are from the 1977 Edition, Summer 1979 Addenda and the 1974 Edition, Summer 1975 Addenda.



CODE		EXAMS	EXAMS
CATEGORY	CATEGORY TITLE		
B-A	REACTOR VESSEL WELDS	REQUIRED	DONE
8-8	OTHER VESSEL WELDS	27	27
8.0	VESSEL NOZZLE WELDS	37	37
8-F	TOTAL STREET,	34	34
B-G-1	DISSIMILAR METAL WELDS	28	28
(a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	BOLTING > 2" DIA.	264	325
8-G-2	BOLTING < or = 2" DIA.	179	228
B-H	VESSEL INTEGRAL ATTACHMENTS	2	2
B-J	PIPING WELDS	268	368
B-K-1	PIPE, PUMP, VALVE INT. ATTACH.	38	38
B-L-1	PUMP CASING WELDS	2	2
B-L-2	PUMP CASING INTERNAL SURFACE	1	1
B-M-1	VALVE BODY WELDS	6	6
B-M-2	VALVE BODY INTERNAL SURFACE	5	5
8 N-1	REACTOR VESSEL INTERIOR	31	31
B-N-3	REMOVABLE CORE STRUCTURE	2	2
B-0	CONTROL ROD HOUSING WELDS	68	68
8-E/B-P	PRESSURE RETAINING BOUNDARY	6	6
C-A	PRESSURE VESSEL WELDS	10	10
C-B	VESSEL NOZZLE WELDS	13	13
C-C	COMPONENT INTEGRAL ATTACH	28	28
C-E-1	PIPE, PUMP, VALVE INT. ATTACH	36	36
C.F	PIPING WELDS	910	1155
0.6	PUMP AND VALVE WELDS	12	
C-H	PRESSURE RETAINING BOUNDARY	63	12
F.A.B.C	COMPONENT SUPPORTS	342	63
C E-2	COMPONENT SUPPORTS		342
200	OUNT UNENT SUFFURIS	265	265

ATTACHMENT 7.0

EXAM INDICATION LIST

EXAM INDICATIONS

ISI AREA DESIGNATION NUMBER	EXAM METHOD	EXAM DATA SHEET NO.	REMARKS
03-023-180	VT - 3	393-07IVT-041	S3-RC-011-H-051
03-024-550	VT-3	393-07IVT-016	NO HOT OR COLD LOAD INDICATORS S3-RC-012-H-057 LOAD STUD MISSING. DAMAGED DURING SNUBBER TESTING. TAGGED TO BE REPLACED. MO 93100907 replaced missing stud. Visual exam 393-07IVT-082 verified missing stud replaced with no
03-035-711	UT45	393-07IUT-037	Geoembric Indications: Reflectors from
03-035-012	UT45	393-07IUT-037	flywheel bore and keyway geometry. Geometric indications were reflectors from flywheel geometry; bolt holes, keyways, and bore.
03-036-011	UT45	393-07IUT-038	Geometric Indications: Reflectors from flywheel bore and keyway geometry.
03-036-012	UT45	393-07IUT-038	Geometric indications were reflectors from flywheel geometry; bolt holes, keyways, and bore.
03-037-011	UT45	393-07IUT-039	Geometric Indications: Reflectors from flywheel bore and keyway geometry.
03-037-012	UT45	393-07IUT-039	Geometric indications were reflectors from flywheel geometry; bolt holes, keyways, and bore.
03-038-011	UT45	393-07IUT-040	Geometric Indications: Reflectors from flywheel bore and keyway geometry.
03-038-012	UT45	393-07IUT-040	Geometric indications were reflectors from flywheel geometry; bolt holes, keyways, and bore.
03-038-075	VT-1	393-07IVT-077	Seventh thread from top missing approx. 20% of crown, damaged area about 1" long. NCR 9310016(prepared for nonconforming condition with deposition to accept as is.
03-043-043	UT45	393-07IUT-051	PER NRC I.N. 93-20 AUTOMATED UT EXAM NCR 93110084 02 Recordable Indications: Two indications were reported that were 4.14" and 5.41" in length. See Exam Report No. 393-07IUT-051 for details and above NCR for disposition of nonconforming condition.
03-044-010	UT45	393-07IUT-061	PER NRC I.N. 93-20 Geometric Indications: Reflectors from weld root and counter bore in extention piece.
03-044-010	UT45	393-07IUT-049	PER NRC I.N. 90-23 AUTOMATED UT EXAM Geometric Indications: Reflectors from counterbores in elbow and extension piece.
03-044-010	UT60	393-07IUT-049	PER NRC I.N. 93-20 AUTOMATED UT EXAM

EXAM INDICATIONS

ISI AREA DESIGNATION NUMBER	EXAM METHOD	EXAM DATA SHEET NO.	REMARKS
		CONTRACTOR STATEMENT OF THE CO	Geometric Indication: Reflector from
03-044-060	UT60	393-07IUT-062	counterbore in extension piece. PER NRC I.N. 93-20 Geometric Indication: Reflector at weld
			root.
03-045-270	UT45	393-07IUT-057	PER NRC I.N. 93-20 Geometric Indications: Reflectors from water interface, confirmed with 0° transducer.
03-045-310	UT45	393-07IUT-058	PER NRC I.N. 93-20 Geometric Indications: Reflectors from
03-045-360	UT60	393-07IUT-052	weld crown. PER NRC I.N. 93-20 AUTOMATED UT EXAM
			Geometric Indication. Reflector from weld root.
03-045-360	UT45	393-07IUT-052	PER NRC I.N. 93-20 AUTOMATED UT EXAM
			Geometric Indications: Reflectors at weld crown and root.
03-045-360	UT45	393-07IUT-048	PER NRC I.N. 93-20 AUTOMATED UT EXAM
			Geometric Indications: Reflectors from counterbores in extension piece and elbow.
03-045-360	UT60	393-07IUT-048	PER NRC I.N. 93-20 AUTOMATED UT EXAM
			Geometric Indications: Reflectors from counterbores in extension piece and elbow.
03-046-610	VT - 4	393-07IVT-020	S3-FW-223-H-001 ITT Grinnell type B setting between hot and cold indicators was 1-5/8", 1375#. This setting was not within Spec. per CS-P207. NCR 93110087 was prepared for
			nonconforming condition with disposition to reset hanger. Visual exam 393-07IVT-080 was performed
			to verify proper setting. Additional exams were performed on supports 03-046-760 (393-07IVT-072) and 03-046-640 (393-07IVT-073). No
			unacceptable conditions were found and
03-046-830	UT45	393-07IUT-018	settings were found within Spec. Geometric indication No. 1 was reflector at weld crown.
			Geometric indication No. 2 was reflector from surface irregularity in base metal. Surface MT examine showed no indication (393-07IMT-009).
03-047-010	MT	393-07IMT-036	Recordable indication, 7/8" long, was found unacceptable by surface examination. A supplemental volumetric exam, Report No. 393-07IUT-027, at 45° scan angle found the indication

EXAM INDICATIONS

ISI AREA DESIGNATION EXAM NUMBER METHO		EXAM DATA SHEET NO.	PEMARKS		
03-047-480	VT-3	393-07IVT-034	acceptable per Table IWB 3514-2. S3-FW-222-H-006 5/8" hex nuts (Item 7) loose on rod at bottom of both spring cans. Visual exam 393-07IVT-079 was performed to verify that hex nuts were tightened. Spring was completely covered with		
03-047-480	VT-4	393-07IVT-034	surface corrosion, which was found acceptable. S3-FW-222-H-006 Both spring can settings were found above hot and cold indicators, not within Spec. per CS-P207. North spring can setting at 1 1/8" / 380#		
			South spring can setting at 1 3/8" / 400# NCR 93110014 prepared for nonconforming condition with disposition to reset. Visual exam 393-07IVT-079 performed to verify settings were within Spec. Additional visual exam was performed on 03-047-510 (393-07IVT-069). Spring		
			settings were also found not within Spec., 1%"/ 684 lbs and 2"/ 745 lbs. NCR 93110014 prepared for nonconforming condition with disposition to reset. Visual exam 393-07IVT-081 performed to verify settings were within Spec.		
3-050-200B	UT45	393-07IUT-042	Geometric Indication: Reflector from weld crown.		
3-050-210	UT45	393-07IUT-042	Geometric Indications: Reflectors from weld crown		
3-051-190	UT45	393-07IUT-030	Geometric indication was reflector at weld crown.		
3-052-100	UT45	393-07IUT-024	Geometric indications were reflectors a weld crown and root.		
3-061-1460	PT	3PT-048-93	Recordable indication was determined to be 5/32" long and found acceptable per IWB-3514.		
3-066-712	PT	3PT-026-93	Recordable indication was 1/8" in dia.		
3-072-1690	PT	3PT-032-93	and found to be acceptable per IWB-3514 Two recordable indications, 1/8" and 3/32" rounded, were found in southeast side of fillet weld. Both indications		
3-081-010	UT45	393-07IUT-023	were found acceptable per IWB-3514. Geometric indications were reflectors from tubesheet inside of Letdown HX.		

ATTACHMENT 8.0

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTION

FORM NIS-1 OWNER'S DATA 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 14000 Basilone Road, 4 Miles South of

San Clemente, CA 92674-0128

3. Plant Unit: 3 4 Owners Certificate of Authorization: N/A

5. Commercial Service Date: April 4, 1984 6. National Board Number for Unit: N/A

7. Component Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel 3MV1101	Combustion Engineering	72170	35204-82	22001
Steam Generator 3ME088	Combustion Engineering	72270-2	35204-82	22265
Steam Generator 3ME089	Combustion Engineering	72270-1	35204-82	22264
Pressurizer IME087	Combustion Engineering	70603	35204-82	21496
Reactor Coolant Pump 3MP001	Byron Jackson	701-N-0563	N/A	N/A
Reactor Coolant Pump 3MP002	Byron Jackson	701-N-0564	N/A	N/A
Reactor Coolant Pump 3MP003	Byron Jackson	701-N-0561	N/A	N/A
Reactor Coolant Pump 3MP004	Byron Jackson	701-N-0562	N/A	N/A
Reactor Coolant Piping System	Bechtel Power	S31201	N/A	N/A

Form NIS-1 (Back)

8. Examination Dates:
9. Inspection Period:
10. Inspection Interval Identification:
11. Applicable Edition of Section XI:
12. Date/Revision of Inspection Plan:
13. Examination Dates:
14. March 31, 1992 to: December 30, 1993
16. Sind Period: December 4, 1990 to March 31, 1994
17. First Interval: April 4, 1984 to March 31, 1994
18. Examination Dates:
19. March 31, 1992 to: December 30, 1993
19. First Interval: April 4, 1984 to March 31, 1994
19. Pariod: December 30, 1993
19. First Interval: April 4, 1984 to March 31, 1994
19. Revision 1: April 12, 1993

13. Abstract of Examinations and Test. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. (See Summary Report Section 2)

14. Abstract of Results of Examinations and Test. (See Summary Report Section 3)
 15. Abstract of Corrective Action. (See Summary Report Section 4)

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

Certificate of Authorization No. (if applicable) N/A Expiration date: N/A

Date: March 25, 1994 Signed Michael PSAbet

Title: Manager Site Technical Servi es

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of California and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period of March 31, 1992 to December 30, 1994, and state 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.

Inompan Commissions 1862 CA, NB 8024 I.S. Is, C. B.N.,
Inspector Signature National Board, State, Providence, and Endorsements

Date March 23, 1993

ATTACHMENT 9.0

LIST OF EXAMINATIONS

Unit 3 Cycle 7 Examination Summary Reactor Vessel Welds

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: P A

EQUIPMENT I.D: REACTOR PRESSURE VESSEL S3-1101-MV-001

03-001-001	B01.21	UT	CIRC	UT-75	000100	11/06/93
03-001-002	B01.22	UT	PEEL	UT-75	000500	11/04/93
03-001-003	B01.22	UT	PEEL	UT-75	000600	11/05/93
03-001-004	B01.22	UT	PEEL	UT-75	000700	11/05/93
03-001-005	B01.22	UT	PEEL	UT-75	000800	11/05/93
03-001-006	B01.22	UT	PEEL	UT-75	000900	11/05/93
03-001-007	B01.22	UT	PEEL	UT-75	001000	11/05/93
03-001-008	B01.21	UT	CIRC	UT-75	000200	11/05/93
03-001-009	B01.12	UT	LONG	UT-75	001500	11/08/93
03-001-010	B01.12	UT	LONG	UT-75	001600	11/08/93
03-001-011	B01.12	UT	LONG	UT-75	001700	11/09/93
03-001-012	B01.11	UT	CIRC	UT-75	001800	11/08/93
03-001-013	B01.12	UT	LONG	UT-75	001900	11/11/93
03-001-014	B01.12	UT	LONG	UT-75	002000	11/11/93
03-001-015	B01.12	UT	LONG	UT-75	002100	11/11/93
03-001-016	B01.11	UT	CIRC	UT-75	002200	11/13/93
03-001-017	B01.12	UT	LONG	UT-75	002300	11/12/93
03-001-018	B01.12	UT	LONG	UT-75	002400	11/12/93
03-001-019	B01.12	UT	LONG	UT-75	002500	11/12/93
03-001-020B	B01.30	UT	CIRC	And the second s	003000	11/12/93
and the second second second second second	THE PERSON NAMED IN COLUMN		Name and Address of the Owner o		The same of the sa	

EQUIPMENT I.D: REACTOR VESSEL CLOSURE HEAD \$3-1101-MV-001A

03-002-001	B01.40	MT	CIRC		393-07IMT-004	10/20/93
03-002-012	B01.21	UT	CIRC	UT-2	393-07IUT-022	10/29/93

Unit 3 Cycle 7 Examination Summary RPV Nozzle Welds

Item No. Exam Method Weld Type Cal. Block Report No. Exam Date ISI Number

CODE CLASS: 1 CODE CATEGORY: B-D

EQUIPMENT I.D: REACTOR PRESSURE VESSEL S3-1101-MV-001

03-001-021	B03.90	. 1	UT-75	003500	11/10/93
03-001-021	B03.100	UT	UT-75	003500	11/10/93
03-001-022	B03.90	UT	UT-75	003600	11/04/93
03-001-022	B03.100	UT	UT-75	003600	11/04/93
03-001-023	B03.100	UT	UT-75	003700	11/04/93
03-001-023	B03.90	UT	UT-75	003700	11/04/93
03-001-024	B03.90	UT	UT-75	003800	11/11/93
03-001-024	B03.100	UT	UT-75	003800	11/11/93
03-001-025	B03.90	UT	UT-75	003900	11/04/93
03-001-025	B03.100	UT	UT-75	003900	11/04/93
03-001-026	B03.90	UT	UT-75	004000	11/04/93
03-001-026	B03.100	UT	UT-75	004000	11/04/93
Commenced Representation represents and commenced	THE RESERVE OF THE PARTY OF THE			THE STREET	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T

Unit 3 Cycle 7 Examination Summary Class 1 Dissimilar Metal Welds

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: B-F

EQUIPMENT LD: HOT LEG LOOP 1, RPV TO S/G E089 1201-001-42

03-006-010	B05.50	PT	CIRC		393-07IPT-027	10/23/93
03-006-010	B05.50	UT	CIRC	UT-16	393-07IUT-020	11/02/93
03-006-010	B05.50	UT	CIRC	UT-16	393-07IUT-014	10/23/93
03-006-011	B05.50	PT	CIRC		393-07IPT-027	10/23/93

Unit 3 Cycle 7 Examination Summary

Class 1 Bolting Larger Than 2" Diameter

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: BG1

EQUIPMENT I.D: REACTOR PRESSURE VESSEL S3-1101-MV-001

03-001-054-37	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-38	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-39	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-40	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-41	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-42	B06,40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-43	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-44	B06,40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-45	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-46	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-47	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-48	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-49	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-50	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-51	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-52	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-53	B06.40	UT	UT-8	393-07IUT-002	10/16/93
03-001-054-54	B06,40	UT	UT-8	393-07IUT-002	10/16/93
03-001-058-01	B06.50	VT-1		393-07IVT-076	10/29/93
03-001-058-02	B06.50	VT-1		393-07IVT-076	10/29/93
03-001-058-04	B06.50	VT-1		393-07IVT-076	10/29/93
03-001-058-17	B06.50	VT-1		393-07IVT-076	10/29/93

EQUIPMENT I.D: REACTOR COOLANT PUMP 2A S3-1201-MP-004

03-038-019	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-018	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-017	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-016	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-015	B06.180	UT	UT-43	68-003-92	05/04/92

02/24/94 Page 1

Unit 3 Cycle 7 Examination Summary

Class 1 Bolting Larger Than 2" Diameter

ISI Number	Item No.	Exam Method Weld Type	Cal. Block	Report No.	Exam Da
CODE CLA	SS: 1 C	ODE CATEGORY: BG1			
03-038-019	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-020	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-020	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-021	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-021	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-022	B06 180	UT	UT-43	68-003-92	05/04/92
03-038-022	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-023	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-023	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-024	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-024	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-025	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-025	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-026	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-026	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-027	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-028	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-028	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-029	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-029	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-030	B06.180	UT	UT-43	68-003-92	05/04/92
03-038-030	B06.180	UT	UT-43	68-002-92	03/31/92
03-038-031	B06.200	VT-1		393-07IVT-064	10/30/93
03-038-032	B06.200	VT-1		393-07IVT-065	10/31/93
03-038-033	B06.200	VT-1		393-07IVT-064	10/30/93
03-038-034	B06.200	VT-1		393-07IVT-065	10/31/93
03-038-035	B06.200	VT-1		393-07IVT-064	10/30/93
03-038-036	B06,200	VΥ-1		393-071VT-065	10/31/93
03-038-037	B06.200	VT-1		393-07IVT-064	10/30/93
03-038-038	B06.200	VT-1		393-07IVT-065	10/31/93

Unit 3 Cycle 7 Examination Summary Class 1 Bolting Larger Than 2" Diameter

ISI Number	Item No.	Exam Method Weld Type Cal. Block	Report No.	Exam Date
CODE CLA	SS: 1 C	ODE CATEGORY: BG1		
03-038-039	B06.200	VT-1	393-07IVT-064	10/30/93
03-038-040	B06.200	VT-1	393-07IVT-065	10/31/93
03-038-041	B06.200	VT-1	393-07IVT-065	10/31/93
03-038-042	B06.200	\T-1	393-07IVT-065	10/31/93
03-038-043	B06.200	VT-I	393-07IVT-065	10/31/93
03-038-044	B06.200	VT-1	393-07IVT-064	10/30/93
03-038-045	B06.200	VT-1	393-07IVT-065	10/31/93
03-038-046	B06.200	VT-1	393-07IVT-064	10/30/93
03-038-064	B06.200	VT-1	393-07IVT-077	10/31/93
03-038-066	B06.200	VT-1	393-07IVT-077	10/31/93
03-038-068	B06.200	VT-1	393-07IVT-077	10/31/93
03-038-072	B06,200	VT-1	393-07IVT-077	10/31/93
03-038-073	B06.200	VT-1	393-07IVT-077	10/31/93
03-038-074	B06.200	VT-1	393-07IVT-077	10/31/93
03-038-075	B06.200	VT-1	393-07IVT-077	10/31/93
03-038-077	B06.200	VT-1	393-07IVT-077	10/31/93
			AND ADDRESS OF THE PARTY OF THE	

Unit 3 Cycle 7 Examination Summary

Class 1 Bolting 2" and Smaller Diameter

Exam Method Weld Type Cal. Block ISI Number Item No. Report No. Exam Date CODE CLASS: | CODE CATEGORY: BG2 EQUIPMENT I.D: LOOP 1A SAFETY INJECTION 1204-059-12"-A-FEO 03-017-010C B07.70 VT-1 393-07IVT-007 10/18/93 EQUIPMENT I.D: LOOP 1B SAFETY INJECTION 1204-060-12"-A-FEO 393-07IVT-008 03-018-010C B07.70 VT-1 10/18/93 EQUIPMENT I.D: LOOP 2A SAFETY INJECTION 1204-154-3"-A-FEO 03-019-010C B07.70 VT-1 393-07IVT-001 10/15/93 EQUIPMENT I.D: SAFETY INJECTION TO LOOP 2B 1204-046-8"-A-FEO 03-020-540C B07.70 10/15/93 VT-1 393-07IVT-002 EQUIPMENT LD: SAFETY INJECTION TO LOOP 2B 1204-155-3"-A-FEO 03-020-650C B07.70 VT-L 393-07IVT-009 10/19/93 EQUIPMENT I.D: SHUTDOWN COOLING INSIDE CONTAINMENT 1204-167-3"-A-FEO 03-021-570B B07.70 VT-1 393-07IVT-024 10/25/93 EQUIPMENT I.D: PRESSURIZER SPRAY LINE LOOP 1B, 1201-013-4 03-022-150B B07.70 VT-1 393-07IVT-003 10/15/93 EQUIPMENT I.D: PRESSURIZER SPRAY LINE FROM LOOP 1B 1201-011-4"-A-FEO 03-023-150B B07.70 VT-1 393-07IVT-027 10/26/93 EQUIPMENT I.D: REACTOR COOLANT PUMP 2B S3-1201-MP-002 03-037-080 B07.60 VT-1 393-07IVT-063 10/27/93 03-037-081 B07.60 VT-I 393-07IVT-063 10/27/93 03-037-082 B07.60 VT-1 393-07IVT-063 10/27/93 03-037-083 B07.60 VT-I 393-07IVT-063 10/27/93

03-037-084

B07.60

VT-1

10/27/93

393-07IVT-063

Unit 3 Cycle 7 Examination Summary Class 1 Bolting 2" and Smaller Diameter

ISI Number	Item No.	Exam Method Weld Type Cal. Bloc	k Report No.	Exam Date
CODE CLA	SS: 1	CODE CATEGORY: BG2		
03-037-085	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-086	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-087	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-088	B07,60	VT-1	393-07IVT-063	10/27/93
03-037-089	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-090	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-091	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-092	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-093	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-094	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-095	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-096	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-097	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-098	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-099	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-100	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-101	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-102	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-103	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-104	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-105	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-106	B07.60	VT-I	393-07IVT-063	10/27/93
03-037-107	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-108	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-109	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-110	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-111	B07.60	VT-1	393-07IVT-063	10/27/93
03-037-112	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-113	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-114	B07.60	VT-1	393-07IVT-062	10/27/93

Unit 3 Cycle 7 Examination Summary

Class 1 Bolting 2" and Smaller Diameter

ISI Number	Item No.	Exam Method Weld Type Cal. Block	Report No.	Exam Dat
CODE CLA	SS: 1 (CODE CATEGORY: BG2		
03-037-115	B07.60	VT-I	393-07IVT-062	10/27/93
03-037-116	B07.60	VT-I	393-07IVT-062	10/27/93
03-037-117	B07.60	VT-I	393-07IVT-062	10/27/93
03-037-118	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-119	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-120	B07,60	VT-1	393-07[VT-062	10/27/93
03-037-121	B07,60	VT-I	393-07IVT-062	10/27/93
03-037-122	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-123	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-124	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-125	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-126	B07.60	VT-1	393-07IVT-062	10/27/93
03-037-127	B07.60	VT-1	393-07IVT-062	10/27/93
03-038-080	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-081	B07.60	VT-I	393-07IVT-066	11/09/93
03-038-682	B07.60	VT-I	393-07IVT-066	11/09/93
03-038-083	B07.60	VT-1	393-С 1 Т-066	11/09/93
03-038-084	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-085	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-086	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-087	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-088	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-089	B97.60	VT-1	393-07IVT-066	11/09/93
03-038-090	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-091	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-092	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-093	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-094	B07.60	VT-1	393-07IVT-066	11/09/93

Unit 3 Cycle 7 Examination Summary

Class 1 Bolting 2" and Smaller Diameter

ISI Number	Item No.	Exam Method Weld Type Cal. Block	Report No.	Exam Date
CODE CLA	SS: 1 (CODE CATEGORY: BG2		
03-038-095	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-096	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-097	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-098	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-099	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-100	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-101	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-102	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-103	B07.60	VT-1	_93-07IVT-066	11/09/93
03-038-104	B07,60	VT-1	393-07IVT-066	11/09/93
03-038-105	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-106	B07,60	VT-1	393-07IVT-066	11/09/93
03-038-107	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-108	B07.60	VT-1	393-07IVT-0.96	11/09/93
03-038-109	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-110	B07.60	VT-1	393-07IVT-066	1/09/93
03-038-111	B07.60	VT-1	393-07IVT-066	11/09/93
03-038-112	B07.60	VT-1	393-07IVT-078	11/01/93
03-038-113	B07,60	VT-1	393-07IVT-078	11/01/93
03-038-114	B07.60	VT-1	393-07IVT-078	11/01/93
03-038-115	B07.60	VT-1	393-07IVT-078	11/01/93
03-038-116	B07.60	VT-1	393-07IVT-078	11/01/93
03-038-117	B07,60	VT-1	393-07IVT-078	11/01/93
03-038-118	B07.60	VT-1	393-07IVT-078	11/01/93
03-038-119	B07.60	VT-1	393-07IVT-078	11/01/93
03-038-120	B07.60	VT-1	393-07I\/T-078	11/01/93
03-038-121	B07,60	VT-1	393-07IVT-078	11/01/93
03-038-122	B07.60	VT-I	393-07IVT-078	11/01/93
03-038-123	B07.60	VT-1	393-07IVT-078	11/01/93
03-038-124	B07.60	VT-1	393-07IVT-078	11/01/93

Unit 3 Cycle 7 Examination Summary Class 1 Bolting 2" and Smaller Diameter

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Dat
CODE CLA	SS: 1 C	CODE CATEGO	DRY: BG2			
03-038-125	B07.60	VT-1			393-07IVT-078	11/01/93
03-038-126	B07.60	VT-1			393-07IVT-078	11/01/93
03-038-127	B07.60	VT-1			393-07IVT-078	11/01/93
EQUIPMEN	NT I.D: SA	FETY INJECTI	ON FROM #	2 HP HEAD	ER 1204-165-3	-A-FEO
03-039-010C	B07.70	VT-1			393-07IVT-026	10/25/93
		VT-1			393-07IVT-025	

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ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: B-J

EQUIPMENT I.D: REACTOR PRESSURE VESSEL S3-1101-MV-001

03-001-034	B09.11	UT	CIRC	UT-6	005000	11/08/93
03-001-035	B09.11	UT	CIRC	UT-6	005100	11/08/93
03-001-037	B09.11	UT	CIRC	UT-6	005200	11/08/93
03-001-038	B09.11	UT	CIRC	UT-6	005300	11/08/93

EQUIPMENT I.D: REACTOR VESSEL CLOSURE HEAD \$3-1101-MV-001A

03-002-015-01	B09.11	UT	CIRC	UT-60	393-07IUT-007	10/20/93
03-002-015-01	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015-02	B09.11	UT	CIRC	UT-60	393-07IUT-007	10/20/93
03-002-015-02	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015-03	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015-04	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015-05	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015-06	B09.11	UT	CIRC	UT-60	393-07IUT-007	10/20/93
03-002-015-06	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015-07	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015-08	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015-09	B09.11	PT	CIRC	PERSONAL TRANSPORTATION OF THE PERSON OF THE	393-07IPT-018	10/20/93
03-002-015-10	B09.11	PT	CIRC	**************************************	393-07IPT-018	10/20/93
03-002-015A-01	B09.11	UT	CIRC	UT-60	393-07IUT-007	10/20/93
03-002-015A-01	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015A-02	B09.11	UT -	CIRC	UT-60	393-07IUT-007	10/20/93
03-002-015A-02	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015A-03	B09.11	PT	CIRC	Problems and the second second	393-07IPT-018	10/20/93
03-002-015A-04	B09.11	PT	CIRC	en e	393-07IPT-018	10/20/93
03-002-015A-05	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015A-06	B09.11	UT	CIRC	UT-60	393-07IUT-007	10/20/93
03-002-015A-06	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015A-07	B09.11	PT	CIRC		393-07IPT-018	10/20/93
02/01/04			ale man a regular resolution from the grade company has all			Dage 1

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	Item No.	Exam Me	ethod Weld Type	Cal. Block	Report No.	Exam Dat
CODE CLASS	: 1 C	ODE CA	TEGORY: B-J			
03-002-015A-08	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015A-09	B09.11	PT	CIRC		393-07IPT-018	10/20/93
03-002-015A-10	B09.11	PT	CIRC		393-07IPT-018	10/20/93
EQUIPMENT	I.D: STE	EAM GEN	NERATOR #1 (P	RIMARY SID	E) S3-1301-ME-	089P
03-003-031	B09.11	MT	CIRC		393-07IMT-015	10/25/93
03-003-032	B09.11	MT	CIRC		393-07IMT-015	10/25/93
03-003-033	B09.11	MT	CIRC		393-07IMT-015	10/25/93
EQUIPMENT	I.D: STE	AM GEN	ERATOR #2 (PI	RIMARY SID	F) S3-1301-ME-	088P
03-004-031	B09.11	MT	CIRC		393-07IMT-010	10/23/93
03-004-032	B09.11	MT	CIRC		393-07IMT-010	10/23/93
03-004-033	B09.11	MT	CIRC		393-07IMT-010	10/23/93
	, B09.11		CIRC		393-07IPT-057	
ECHIEDRATERITE	I.D. 1103	erec re	OD I DDIVEO	0/0 0000 100	1 001 40	
			OOP 1, RPV TO	S/G E089 120		10/22/02
93-006-001	B09.11	МТ	CIRC	S/G E089 120	393-07iMT-011	
03-006-001 03-006-002 SG	B09.11	MT MT	CIRC	S/G E089 120	393-07iMT-011 393-07IMT-011	10/23/93
03-006-001 03-006-002 SG 03-006-003 SG	B09.11 B09.12 B09.12	MT MT	CIRC LONG LONG	S/G E089 120	393-07IMT-011 393-07IMT-011 393-07IMT-011	10/23/93
93-006-001 93-006-002 SG 93-006-003 SG 93-006-008	B09.11 B09.12 B09.12 B09.31	MT MT MT	CIRC LONG LONG CIRC		393-07IMT-011 393-07IMT-011 393-07IMT-011 393-07IMT-011	10/23/93 10/23/93 10/23/93
03-006-001 03-006-002 SG 03-006-003 SG 03-006-008	B09.11 B09.12 B09.12 B09.31	MT MT MT MT	CIRC LONG LONG CIRC CIRC	S/G E089 120 UT-4	393-07IMT-011 393-07IMT-011 393-07IMT-011 393-07IMT-011 393-07IUT-013	10/23/93 10/23/93 10/23/93 10/23/93
03-006-001 03-006-002 SG 03-006-003 SG 03-006-008 03-006-008	B09.11 B09.12 B09.12 B09.31 B09.31	MT MT MT UT MT	CIRC LONG LONG CIRC CIRC	UT-4	393-07IMT-011 393-07IMT-011 393-07IMT-011 393-07IMT-011 393-07IMT-013	10/23/93 10/23/93 10/23/93 10/23/93
03-006-001 03-006-002 SG 03-006-003 SG 03-006-008 03-006-008	B09.11 B09.12 B09.12 B09.31	MT MT MT MT	CIRC LONG LONG CIRC CIRC		393-07IMT-011 393-07IMT-011 393-07IMT-011 393-07IMT-011 393-07IUT-013	10/23/93 10/23/93 10/23/93 10/23/93
03-006-001 03-006-002 SG 03-006-003 SG 03-006-008 03-006-009 03-006-009	B09.11 B09.12 B09.12 B09.31 B09.31 B09.31	MT MT MT UT MT UT	CIRC LONG LONG CIRC CIRC	UT-4	393-071MT-011 393-071MT-011 393-071MT-011 393-071WT-013 393-071WT-011 393-071WT-013	10/23/93 10/23/93 10/23/93 10/23/93
03-006-001 03-006-002 SG 03-006-003 SG 03-006-008 03-006-009	B09.11 B09.12 B09.12 B09.31 B09.31 B09.31	MT MT MT UT MT UT	CIRC LONG LONG CIRC CIRC CIRC	UT-4	393-071MT-011 393-071MT-011 393-071MT-011 393-071WT-013 393-071WT-011 393-071WT-013	10/23/93 10/23/93 10/23/93 10/23/93
03-006-001 03-006-002 SG 03-006-003 SG 03-006-008 03-006-009 03-006-009	B09.11 B09.12 B09.12 B09.31 B09.31 B09.31	MT MT MT UT MT UT LEG LO	CIRC LONG LONG CIRC CIRC CIRC CIRC	UT-4	393-071MT-011 393-071MT-011 393-071MT-011 393-071MT-011 393-071MT-011 393-071MT-011	10/23/93 10/23/93 10/23/93 10/23/93 10/23/93
03-006-001 03-006-002 SG 03-006-003 SG 03-006-008 03-006-009 03-006-009 EQUIPMENT	B09.11 B09.12 B09.12 B09.31 B09.31 B09.31	MT MT MT UT MT UT LEG LO	CIRC LONG LONG CIRC CIRC CIRC CIRC CIRC CIRC	UT-4	393-071MT-011 393-071MT-011 393-071MT-011 393-071MT-013 393-071MT-011 393-071MT-013	10/23/93 10/23/93 10/23/93 10/23/93 10/23/93 10/23/93

					Report No.	
CODE CLASS:	1 C	ODE CATEG	ORY: B-J			
03-007-003 SG	B09.12	MT	LONG		393-07IMT-002	10/18/93
03-007-008	B09.31	MT	CIRC		393-07IMT-002	10/18/93
EQUIPMENT I.	D; CO	LD LEG LOOP	1B, S/G E0	89 TO RCP 3	BMP-003 1201-0	05-30
03-008-001	B09.11	PT	CIRC		393-07IPT-034	10/25/93
03-008-003 P	B09.12	MT	LONG		393-07IMT-016	10/25/93
03-008-004 P	B09.12	MT	LONG		393-07IMT-016	10/25/93
03-008-012 SG	B09.12	MT	LONG		393-07IMT-016	10/25/93
03-008-013 SG	B09.12	MT	LONG		393-07IMT-016	10/25/93
03-008-014	B09.11	MT	CIRC		393-07IMT-016	10/25/93
03-008-015	B09.12	MT	LONG		393-07IMT-016	10/25/93
03-008-016	B09.12	MT	LONG		393-07IMT-016	10/25/93
03-008-017	B09.11	MT	CIRC		393-07IMT-016	10/25/93
13-000-01	MF 90 0 0 0 0 0					
03-008-018	B09.31	MT .D LEG LOOP	CIRC	MP 3MP-003	393-07IMT-016 TO RPV 1201-0	10/25/93
03-008-018 EQUIPMENT I.	B09.31	THE STREET STREET, STR	CIRC	MP 3MP-003		
03-008-018 EQUIPMENT I.	B09.31	D LEG LOOP	CIRC 1B, RC PU	MP 3MP-003	TO RPV 1201-0	009-30
03-008-018 EQUIPMENT I.	B09.31 D: COI	D LEG LOOP	CIRC 1B, RC PUI CIRC	MP 3MP-003	TO RPV 1201-0	009-30 10/25/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P	B09.31 D: COI B09.11 B09.12	D LEG LOOP PT MT MT	CIRC 1B, RC PUT CIRC LONG	MP 3MP-003	TO RPV 1201-0 393-07IPT-035 393-07IMT-017	009-30 10/25/93 10/25/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P	B09.31 D: COI B09.11 B09.12 B09.12	D LEG LOOP PT MT MT	CIRC 1B, RC PUT CIRC LONG LONG		TO RPV 1201-0 393-07IPT-035 393-07IMT-017 393-07IMT-017	10/25/93 10/25/93 10/25/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P 03-009-004 P	B09.31 D: COI B09.11 B09.12 B09.12 B09.12	D LEG LOOP PT MT MT UT	CIRC 1B, RC PUT CIRC LONG LONG LONG	UT-6	TO RPV 1201-0 393-07IPT-035 393-07IMT-017 393-07IMT-017 100000	10/25/93 10/25/93 10/25/93 11/08/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P 03-009-004 P 03-009-006 RV 03-009-007 RV	B09.31 D: COI B09.11 B09.12 B09.12 B09.12	D LEG LOOP PT MT MT UT UT	CIRC 1B, RC PUT CIRC LONG LONG LONG LONG	UT-6 UT-6	TO RPV 1201-0 393-07IPT-035 393-07IMT-017 393-07IMT-017 100000	10/25/93 10/25/93 10/25/93 11/08/93 11/08/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P 03-009-004 P 03-009-006 RV 03-009-007 RV 03-009-008	B09.31 D: COI B09.11 B09.12 B09.12 B09.12 B09.12	D LEG LOOP PT MT MT UT UT UT	CIRC 1B, RC PUT CIRC LONG LONG LONG CIRC	UT-6 UT-6	TO RPV 1201-0 393-07IPT-035 393-07IMT-017 393-07IMT-017 100000 100100	10/25/93 10/25/93 10/25/93 11/08/93 11/08/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P 03-009-004 P 03-009-006 RV 03-009-007 RV 03-009-008 03-009-009	B09.31 D: COI B09.11 B09.12 B09.12 B09.12 B09.12 B09.31	D LEG LOOP PT MT UT UT UT MT MT	CIRC 1B, RC PUT CIRC LONG LONG LONG CIRC CIRC CIRC	UT-6 UT-6 UT-6	TO RPV 1201-0 393-07IPT-035 393-07IMT-017 100000 100100 100200 393-07IMT-017 393-07IMT-017	10/25/93 10/25/93 10/25/93 11/08/93 11/08/93 11/08/93 10/25/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P 03-009-004 P 03-009-006 RV 03-009-007 RV 03-009-009 03-009-010 EQUIPMENT I.I	B09.31 D: COI B09.11 B09.12 B09.12 B09.12 B09.12 B09.31 B09.31	D LEG LOOP PT MT MT UT UT UT T D LEG LOOP	CIRC 1B, RC PUT CIRC LONG LONG LONG CIRC CIRC CIRC CIRC 1A, S/G E0	UT-6 UT-6 UT-6	TO RPV 1201-0 393-07IPT-035 393-07IMT-017 100000 100100 100200 393-07IMT-017 393-07IMT-017	10/25/93 10/25/93 10/25/93 11/08/93 11/08/93 11/08/93 10/25/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P 03-009-004 P 03-009-006 RV 03-009-008 03-009-009 03-009-010 EQUIPMENT I.I	B09.31 D: COI B09.11 B09.12 B09.12 B09.12 B09.11 B09.31 B09.31 D: COI B09.11	D LEG LOOP PT MT UT UT UT MT AT D LEG LOOP PT	CIRC 1B, RC PUT CIRC LONG LONG LONG CIRC CIRC CIRC CIRC CIRC CIRC	UT-6 UT-6 UT-6	TO RPV 1201-0 393-07IPT-035 393-07IMT-017 100000 100100 100200 393-07IMT-017 393-07IMT-017 MP-001 1201-0 393-07IPT-028	10/25/93 10/25/93 10/25/93 11/08/93 11/08/93 11/08/93 10/25/93 03-30 10/23/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P 03-009-004 P 03-009-006 RV 03-009-007 RV 03-009-009 03-009-010 EQUIPMENT I.II 03-010-003 P	B09.31 D: COI B09.11 B09.12 B09.12 B09.12 B09.12 B09.11 B09.31 D: COI B09.11 B09.31	D LEG LOOP PT MT UT UT UT MT AT D LEG LOOP PT MT	CIRC 1B, RC PUT CIRC LONG LONG LONG CIRC CIRC CIRC CIRC CIRC LONG LONG	UT-6 UT-6 UT-6	TO RPV 1201-0 393-07IPT-035 393-07IMT-017 100000 100100 100200 393-07IMT-017 393-07IMT-017 MP-001 1201-0 393-07IPT-028 393-07IMT-012	10/25/93 10/25/93 10/25/93 11/08/93 11/08/93 11/08/93 10/25/93 10/25/93 10/23/93
03-008-018 EQUIPMENT I. 03-009-001 03-009-003 P 03-009-004 P 03-009-006 RV 03-009-008 03-009-009 03-009-010 EQUIPMENT I.I	B09.31 D: COI B09.11 B09.12 B09.12 B09.12 B09.11 B09.31 B09.31 D: COI B09.11	D LEG LOOP PT MT UT UT UT MT AT D LEG LOOP PT	CIRC 1B, RC PUT CIRC LONG LONG LONG CIRC CIRC CIRC CIRC CIRC CIRC	UT-6 UT-6 UT-6	TO RPV 1201-0 393-07IPT-035 393-07IMT-017 100000 100100 100200 393-07IMT-017 393-07IMT-017 MP-001 1201-0 393-07IPT-028	10/25/93 10/25/93 10/25/93 11/08/93 11/08/93 11/08/93 10/25/93 03-30 10/23/93

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ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Da
CODE CLASS:	1 C	ODE CATEG	ORY: B-J			
03-010-014	B09.11	MT	CIRC		393-07IMT-012	10/23/93
03-010-015	B09.12	MT	LONG		393-07IMT-012	10/23/93
03-010-016	B09.12	MT	LONG		393-07IMT-012	10/23/93
03-010-017	B09.11	MT	CIRC		393-07IMT-012	10/23/93
03-010-018	B09.31	MT	CIRC		393-07IMT-012	10/23/93
EQUIPMENT I	.D: COI	LD LEG LOOP	IA, RC PU	MP 3MP-001	TO RPV 1201-	007-30
03-011-001	B09.11	PT	CIRC		393-07IPT-029	10/23/93
03-011-003 P	B09.12	MT	LONG	Control of the Contro	393-07IMT-013	10/23/93
03-011-004 P	B09.12	MT	LONG	NAME OF TAXABLE PARTY.	393-07IMT-013	10/23/93
03-011-006 RV	B09.12	UT	LONG	UT-6	100300	11/08/93
03-011-007 RV	B09.12	UT	LONG	UT-6	100400	11/08/93
03-011-008	B09.11	UT	CIRC	UT-6	100500	11/08/93
03-011-009	B09.31	MT	CIRC		393-07IMT-013	10/23/93
03-011-010	B09.31	MT	CIRC		393-07IMT-013	10/23/93
03-011-016	B09.31	MT	CIRC		393-07IMT-013	10/23/93
EQUIPMENT I		LD LEG LOOP	2B, S/G E0	88 TO RCP 3	MP-002 1201-0 393-07IPT-033	06-30
03-012-003 P	B09.12	MT	LONG		393-07IMT-019	10/25/93
03-012-004 P	B09.12	MT	LONG		393-07IMT-019	10/25/93
03-012-012 SG	B09.12	MT	LONG		393-07IMT-018	10/25/93
03-012-013 SG	B09.12	MT	LONG	T-10-14-15-15-15-15-15-15-15-15-15-15-15-15-15-	393-07IMT-018	10/25/93
03-012-014	B09.11	MT	CIRC		393-07IMT-041	11/03/93
03-012-015	B09.12	MT	LONG		393-07IMT-018	10/25/93
03-012-016	B09.12	MT	LONG		393-07IMT-018	10/25/93
03-012-017	B09.11	MT	CIRC		393-07IMT-018	10/25/93
03-012-018	B09.31	MT	CIRC		393-07IMT-018	10/25/93
EQUIPMENT I	.D: COI	D LEG LOOP	2B, RC PU	MP 3MP-002	TO RPV 1201-	010-30
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ISI Number 1	tem No.	Exam Method	wein type	Cal. Block	Report No.	Exam Da
CODE CLASS:	1 C	ODE CATEGO				
03-013-003 P	B09.12	MT	LONG		393-07IMT-014	10/23/93
03-013-004 P	B09.12	MT	LONG		393-07IMT-014	10/23/93
03-013-006 RV	B09.12	UT	LONG	UT-6	100600	11/08/93
03-013-007 RV	B09.12	UT	LONG	UT-6	100700	11/08/93
03-013-008	B09.11	UT	CIRC	UT-6	100800	11/08/93
03-013-009	B09.31	MT	CIRC		393-07IMT-014	10/23/93
EQUIPMENT I.				88 TO RCP 3		
03-014-001	B09.11	PT	CIRC		393-07IPT-010	10/18/93
03-014-003 P	B09.12	MT	LONG		393-07IMT-003	10/18/93
03-014-004 P	B09.12	MT	LONG		393-07IMT-003	10/18/93
03-014-012 SG	B09.12	MT	LONG		393-07IMT-003	10/18/93
03-014-013 SG	B09.12	MT	LONG		393-07IMT-003	10/18/93
03-014-014	B09.11	MT	CIRC		393-07IMT-003	10/18/93
03-014-015	B09.12	MT	LONG		393-07IMT-003	10/18/93
03-014-016	B09.12	MT	LONG		393-07IMT-003	10/18/93
03-014-217	B09.11	MT	CIRC		393-07IMT-003	10/18/93
03-014-018	B09.31	MT	CIRC		393-07IMT-003	10/18/93
EQUIPMENT I.	D: COI	D LEG LOOP	2A, RC PUI	MP 3MP-004	TO RPV 1201-	008-30
03-015-001	B09.11	PT	CIRC		393-07IPT-019	10/20/93
03-015-003 P	B09.12	MT	LONG		393-07IMT-005	10/21/93
03-015-004 P	B09.12	MT	LONG		393-07IMT-005	10/21/93
03-015-006 RV	B09.12	UT	LONG	UT-6	100900	11/08/93
03-015-007 RV	B09.12	UT	LONG	UT-6	101000	11/08/93
03-015-008	B09.11	UT	CIRC	UT-6	101100	11/08/93
	B09.31	MT	CIRC	energia de la composição	393-07IMT-005	10/21/93
03-015-009			CIRC		393-07IMT-005	10/21/93

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03-016-001

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B09.11 PT

393-07IPT-036

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ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLAS	SS: 1 C	ODE CATEGO	ORY: B-J			
03-016-004	B09.11	PT	CIRC		393-07IPT-036	10/25/93
03-016-004	B09.11	UT	CIRC	UT-27	393-07IUT-017	10/25/93
03-016-005	B09.11	PT	CIRC		393-07IPT-036	10/25/93
03-016-005	B09.11	UT	CIRC	UT-27	393-07IUT-017	10/25/93
03-016-006	B09.11	PT	CIRC		393-07IPT-036	10/25/93
03-016-006	B09.11	UT	CIRC	UT-27	393-07IUT-017	10/25/93
03-016-007	B09.11	PT	CIRC		393-07IPT-036	10/25/93
03-016-007	B09.11	UT	CIRC	UT-27	393-07IUT-017	10/25/93
03-016-009	B09.11	PT	CIRC		393-07IPT-036	10/25/93
03-016-010	B09.11	PT	CIRC		393-07IPT-036	10/25/93
03-016-012	B09.11	PT	CIRC		393-07IPT-078	11/11/93
03-016-012	B09.11	UT	CIRC	UT-27	393-07IUT-031	11/13/93
03-016-013	B09.11	UT	CIRC	UT-27	393-07IUT-017	10/25/93
03-016-013	B09.11	PT	CIRC		393-07IPT-036	10/25/93
03-016-014	B09.11	UT	CIRC	UT-27	393-07IUT-017	10/25/93
03-016-014	B09.11	PT	CIRC		393-07IPT-023	10/22/93
03-016-015	B09.11	UT	CIRC	UT-27	393-07IUT-017	10/25/93
03-016-015	B09.11	PT	CIRC		393-07IPT-023	10/22/93
03-016-016	B09.11	PT	CIRC		393-07IPT-023	10/22/93
EQUIPMEN	T I.D: LO	OP 1A SAFETY	Y INJECTIO	N 1204-059	-12"-A-FEO	
03-017-020	B09.11	PT	CIRC		393-07IPT-001	10/15/93
03-017-080	B09.11	PT	CIRC	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	393-07IPT-001	10/15/93
03-017-100	B09.11	PT	CIRC	Martine Annual Control of Martine and Control of Control	393-07IPT-001	10/15/93
03-017-130	B09.11	PT	CIRC		393-07IPT-008	10/18/93
EQUIPMEN	T I.D: LO	OP 1A SAFETY	Y INJECTIO	N 1204-043	-12"-A-FEO	
03-017-140	B09.11	PT	CIRC		393-07IPT-008	10/18/93
03-017-300	B09.11	PT	CIRC		393-07IPT-052	11/01/93
03-017-390	B09.11	PT	CIRC	No. of Chicago, Concession of Spinor	393-07IPT-009	10/18/93

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date CODE CLASS: 1 CODE CATEGORY: B-J EQUIPMENT I.D: LOOP 1A SAFETY INJECTION 1204-043-8"-A-FEO 03-017-410 B09.11 UT CIRC UT-26 393-07IUT-006 10/19/93 03-017-410 B09.11 PT CIRC 393-07IPT-015 10/19/93 03-017-430 B09.11 PT CIRC 393-07IPT-007 10/16/93 03-017-430 B09.11 UT CIRC UT-26 393-07IUT-004 10/18/93 03-017-440 B09.11 PT CIRC 393-07IPT-001 10/15/93 03-017-440 B09.11 UT CIRC UT-26 393-07IUT-004 10/18/93 EQUIPMENT I.D: LOOP 1A SAFETY INJECTION 1204-043-4"-A-FEO 03-017-480 B09.11 PT CIRC 393-07IPT-001 10/15/93 EQUIPMENT I.D: LOOP 1B SAFETY INJECTION 1204-060-12"-A-FEO 03-018-020 B09.11 PT CIRC 393-07IPT-012 10/18/93 03-018-040 B09.11 PT CIRC 393-07IPT-012 10/18/93 03-018-060 B09.11 PT CIRC 393-07IPT-012 10/18/93 03-018-110 B09.11 PT CIRC 393-07IPT-004 10/15/93 EQUIPMENT I.D: LOOP 1B SAFETY INJECTION 1204-044-12"-A-FEO B09.11 PT 03-018-120 CIRC 393-07IPT-004 10/15/93 03-018-260 B09.11 UT CIRC UT-27 393-07IUT-034 11/08/93 03-018-260 B09.11 UT CIRC UT-27 393-07IUT-027 11/08/93 03-018-260 B09.11 PT CIRC 393-07IPT-063 11/08/93 03-018-280 B09.11 PT CIRC 393-07IPT-014 10/19/93 03-018-340 B09.11 PT CIRC 393-07IPT-014 10/19/93 EQUIPMENT I.D: LOOP 1B SAFETY INJECTION 1204-044-8"-A-FEO 03-018-350 B09.11 PT CIRC 393-07IPT-004 10/15/93 03-018-390 B09.11 UT CIRC UT-26 393-07IUT-008 10/19/93 03-018-390 B09.11 PT CIRC 393-07IPT-004 10/15/93 03-018-400 B09.11 UT CIRC UT-26 393-07IUT-008 10/19/93

ISI Number	Item No.	Exam Method	Weld Type Cal. Block	Report No.	Exam Date
CODE CLASS	: 1 C	ODE CATEG	ORY: B-J		
03-018-400	B09.11	PT	CIRC	393-07IPT-011	10/18/93
03-018-430	B09.11	PT	CIRC	393-07IPT-004	10/15/93
EQUIPMENT	LD: LO	OP 1B SAFET	Y INJECTION 1204-044	-4"-A-FEO	
03-018-450	B09.11	PT	CIRC	393-07IPT-004	10/15/93
EQUIPMENT	I.D: LO	OP 2A SAFET	Y INJECTION 1204-045	-8"-A-FEO	
03-019-130	B09.11	PT	CIRC	393-07IFT-002	10/15/93
03-019-150	B09.11	PT	CIRC	393-07IPT-002	10/15/93
03-019-190	B09.11	PT	CIRC	393-07IPT-002	10/15/93
03-019-250	B09.11	PT	CIRC	393-07IPT-002	10/15/93
03-019-280	B09.11	PT	CIRC	393-07IPT-002	10/15/93
03-019-290	B09.11	PT	CIRC	393-07IPT-002	10/15/93
03-019-310	B09.11	PT	CIRC	393-07IPT-002	10/15/93
03-019-320	B09.11	PT	CIRC	393-07IPT-002	10/15/93
03-019-420	B09.11	PT	CIRC	393-07IPT-013	10/18/93
03-019-440	B09.11	PT	CIRC	393-07IPT-047	10/29/93
03-019-450	B09.11	PT	CIRC	393-07IPT-047	10/29/93
03-019-460	B09.11	PT	CIRC	393-07IPT-076	11/10/93
EOUIPMENT	LD: LOC	OP 2A SAFETY	Y INJECTION 1204-061	-12"-A-FEO	
03-019-480	B09.11	PT	CIRC	393-07IPT-051	11/30/93
03-019-500	B09.11	PT	CIRC	393-07IPT-051	11/30/93
03-019-520	B09.11	PT	CIRC	393-07IPT-051	11/30/93
03-019-530	B09.11	PT	CIRC	393-07IPT-051	11/30/93
03-019-540	B09.11	PT	CIRC	393-07IPT-051	11/30/93
03-019-560	B09.11	PT	CIRC	393-07IPT-044	10/27/93
03-019-570	B09.11	PT	CIRC	393-07IPT-075	11/10/93
03-019-580	B09.11	PT	CIRC	393-07IPT-075	11/10/93

EQUIPMENT I.D: LOOP 2A SAFETY INJECTION 1204-045-12"-A-FEO

		AVAILABLE STA	ethod Weld Type	Cal. Block	Report No.	Exam Da
CODE CLAS	S: 1 C	ODE CA	TEGORY: B-J			
03-019-720	B09.11	PT	CIRC		393-07IPT-082	11/13/93
03-019-740	B09.11	PT	CIRC		393-07IPT-083	11/15/93
03-019-810	B09.11	PT	CIRC		393-07IPT-082	11/13/93
EQ MENT	ΓLD: SAF	ETY INJ	ECTION TO LO	OOP 2B 1204	-062-12"-A-FEO	
03-0020	B09.11	PT	CIRC		393-07IPT-045	10/27/93
03-020-040	P99.11	PT	CIRC		393-07IPT-045	10/27/93
03-020-060	B09.11	PT	CIRC		393-07IPT-045	10/27/93
EQUIPMENT	Γ I.D: SAF	ETY INJ	ECTION TO LO	OOP 2B 1204	-046 12"-A-FEO	
03-020-230	B09.11	PT	CIRC		393-07IPT-061	11/05/93
03-020-250	B09.11	PT	CIRC		393-07IPT-061	11/05/93
03-020-310	B09.11	PT	CIRC		393-07IPT-061	11/05/93
EQUIPMENT	Γ I.D: SAF	ETY INJ	ECTION TO LO	OOP 2B 1204	-046-8"-A-FEO	
03-020-370	B09.11	PT	CIRC	OOP 2B 1204	393-07IPT-006	10/16/93
03-020-370	B09.11	PT PT	CIRC		393-07IPT-006 393-07IPT-006	10/16/93
03-020-370 03-020-380 03-020-500	B09.11 B09.11	PT PT UT	CIRC CIRC CIRC	OOP 2B 1204 UT-26	393-07IPT-006 393-07IPT-006 393-07IUT-005	10/16/93
03-020-370 03-020-380 03-020-500 03-020-500	B09.11 B09.11 B09.11	PT PT UT PT	CIRC CIRC CIRC		393-07IPT-006 393-07IPT-005 393-07IPT-006	10/16/93 10/18/93 10/16/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520	B09.11 B09.11 B09.11 B09.11	PT PT PT PT	CIRC CIRC CIRC CIRC	UT-26	393-07IPT-006 393-07IPT-005 393-07IPT-006 393-07IPT-006	10/16/93 10/18/93 10/16/93 10/16/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520	B09.11 B09.11 B09.11 B09.11 B09.11	PT PT PT PT UT	CIRC CIRC CIRC CIRC CIRC		393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-005	10/16/93 10/18/93 10/16/93 10/16/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520	B09.11 B09.11 B09.11 B09.11	PT PT PT PT	CIRC CIRC CIRC CIRC	UT-26	393-07IPT-006 393-07IPT-005 393-07IPT-006 393-07IPT-006	10/16/93 10/18/93 10/16/93 10/16/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520 03-020-520	B09.11 B09.11 B09.11 B09.11 B09.11	PT PT PT UT PT PT	CIRC CIRC CIRC CIRC CIRC	UT-26	393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-005 393-07IPT-006	10/16/93 10/18/93 10/16/93 10/16/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520 03-020-520	B09.11 B09.11 B09.11 B09.11 B09.11	PT PT PT UT PT PT	CIRC CIRC CIRC CIRC CIRC CIRC	UT-26	393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-005 393-07IPT-006	10/16/93 10/18/93 10/16/93 10/16/93 10/16/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520 03-020-530 EQUIPMENT	B09.11 B09.11 B09.11 B09.11 B09.11 B09.11	PT PT PT UT PT TDOWN	CIRC CIRC CIRC CIRC CIRC CIRC CIRC	UT-26	393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-005 393-07IPT-006	10/16/93 10/18/93 10/16/93 10/16/93 10/16/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520 03-020-530 EQUIPMENT 03-021-010 03-021-020	B09.11 B09.11 B09.11 B09.11 B09.11 B09.11 FI.D: SHU	PT PT PT UT PT TDOWN	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC	UT-26 UT-26 SIDE CONTA	393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 INMENT 393-07IPT-026	10/16/93 10/18/93 10/16/93 10/16/93 10/16/93 10/16/93 10/22/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520 03-020-520 03-020-530 EQUIPMENT 03-021-010 03-021-020	B09.11 B09.11 B09.11 B09.11 B09.11 B09.11 FI.D: SHU B09.11 B09.11 B09.11	PT PT UT PT UT PT UT PT UT PT UT	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC	UT-26 UT-26 UT-28	393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 INMENT 393-07IPT-026 393-07IPT-022 393-07IPT-032	10/16/93 10/18/93 10/16/93 10/16/93 10/16/93 10/16/93 10/22/93
03-020-370 03-020-380 03-020-500 03-020-500 03-020-520 03-020-520 03-020-530 EQUIPMENT 03-021-010 03-021-020	B09.11 B09.11 B09.11 B09.11 B09.11 B09.11 FI.D: SHU B09.11 B09.11 B09.11	PT PT UT PT UT PT UT PT UT PT UT	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC	UT-26 UT-26 UT-28	393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 393-07IPT-006 INMENT 393-07IPT-026 393-07IPT-022 393-07IPT-032	10/16/93

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ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date CODE CLASS: 1 CODE CATEGORY: B-J **EQUIPMENT I.D:** SHUTDOWN COOLING INSIDE CONTAINMENT 03-021-230 B09.11 UT CIRC UT-28 393-07IUT-035 11/13/93 03-021-230 CIRC 393-07IPT-064 B09.11 PT 11/08/93 03-021-240 CIRC UT-28 393-07IUT-035 B09.11 UT 11/13/93 03-021-240 393-07IPT-084 B09.11 PT CIRC 11/15/93 03-021-250 CIRC 393-07IPT-084 11/15/93 B09.11 PT 03-021-270 B09.11 CIRC 393-07IPT-064 11/08/93 03-021-300 393-07IPT-064 B09.11 PT CIRC 11/08/93 **EQUIPMENT I.D:** SHUTDOWN COOLING INSIDE CONTAINMENT 03-021-320 B09.11 PT CIRC 393-07IPT-073 11/10/93 03-021-350 PT CIRC B09.11 393-07IPT-073 11/10/93 03-021-370 B09.11 PT CIRC 393-07IPT-073 11/10/93 03-021-440 B09.11 PT CIRC 393-07IPT-073 11/10/93 EQUIPMENT I.D: SHUTDOWN COOLING INSIDE CONTAINMENT 1201-072-3"-A-FEO 03-021-460 B09.31 UT CIRC 393-07IUT-032 11/12/93 EQUIPMENT I.D: PRESSURIZER SPRAY LINE LOOP 1B, 1201-013-3 03-022-080 B09.21 PT CIRC 393-07IPT-071 11/09/93 03-022-086 B09.21 CIRC 393-07IPT-069 11/09/93 03-022-087 B09.21 PT CIRC 393-07IPT-069 11/09/93 03-022-088 B09.21 PT CIRC 393-07IPT-069 11/09/93 03-022-089 B09.21 PT CIRC 393-07IPT-003 10/15/93 EQUIPMENT I.D: PRESSURIZER SPRAY LINE LOOP 1B, 1201-013-4 03-022-111 B09.11 UT CIRC UT-25 393-07IUT-003 10/18/93 03-022-111 B09.11 PT CIRC 393-07IPT-003 10/15/93 03-022-112 B09.11 UT CIRC UT-25 393-07IUT-003 10/18/93

CIRC

03-022-112

B09.11 PT

10/15/93

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393-07IPT-003

	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Dat
CODE CLASS:	: 1 C	ODE CATEO	ORY: B-J			
03-022-113	B09.11	UT	CIRC	UT-25	393-07IUT-003	10/18/93
03-022-113	B09.11	PT	CIRC		393-07IPT-003	10/15/93
03-022-114	B09.11	UT	CIRC	UT-25	393-07IUT-003	10/18/93
03-022-114	B09.11	PT	CIRC		393-07IPT-003	10/15/93
EQUIPMENT	I.D: PRE	ESSURIZER S	PRAY LINE	LOOP 1B, 1	201-014-4	
03-022-172	B09.11	UT	CIRC	UT-25	393-07IUT-011	10/22/93
03-022-172	B09.11	PT	CIRC	THE STATE OF THE S	393-07IPT-024	10/21/93
03-022-173	B09.11	UT	CIRC	UT-25	393-07(UT-011	10/22/93
03-022-173	B09.11	PT	CIRC	THE COURT OF MORE AREAS OF A PITT FAST SEPREMENT	393-07IPT-024	10/21/93
03-022-174	B09.11	UT	CIRC	UT-25	393-07IUT-011	10/22/93
03-022-174	B09.11	PT	CIRC		393-07IPT-024	10/21/93
03-022-175	B09.11	UT	CIRC	UT-25	393-07IUT-011	10/22/93
03-022-175	B09.11	PT	CIRC		393-07IPT-024	10/21/93
03-022-176	B09.11	UT	CIRC	UT-25	393-07IUT-011	10/22/93
03.033.132	B09.11	PT	CIRC	Province of the Annual Control of the State	393-07IPT-031	10/23/93
03-022-176	2000		No. 24 Co.			10/23/23
				FROM LOO	P 1B 1201-011-:	
EQUIPMENT I				FROM LOO	N. S. S. ST. OFFICE AND SERVICE STREET, SP. S. ST. ST. ST. ST. ST. ST. ST. ST. ST.	
EQUIPMENT I 03-023-100	D: PRE	SSURIZER S	PRAY LINE CIRC		P 1B 1201-011-	3"-A-FEO 11/04/93
EQUIPMENT I 03-023-100	D: PRE	SSURIZER S	PRAY LINE CIRC		P 1B 1201-011-393-07IPT-060	3"-A-FEO 11/04/93
EQUIPMENT I	B09.21	SSURIZER S PT SSURIZER S	PRAY LINE CIRC PRAY LINE	FROM LOO	P 1B 1201-011-3 393-07IPT-060 P 1B 1201-012-4	3"-A-FEO 11/04/93 4"-A-FEO
EQUIPMENT I 03-023-100 EQUIPMENT I 03-023-161	B09.21 D: PRE B09.11	SSURIZER S PT SSURIZER S UT	PRAY LINE CIRC PRAY LINE CIRC	FROM LOO	P 1B 1201-011-3 393-07IPT-060 P 1B 1201-012-4 393-07IUT-019	3"-A-FEO 11/04/93 4"-A-FEO 11/04/93
EQUIPMENT I 03-023-100 EQUIPMENT I 03-023-161 03-023-162	B09.21 D: PRE B09.11 B09.11	SSURIZER S PT SSURIZER S UT PT	PRAY LINE CIRC PRAY LINE CIRC CIRC	FROM LOO	P 1B 1201-011-3 393-07IPT-060 P 1B 1201-012-4 393-07IUT-019 393-07IPT-060	3"-A-FEO 11/04/93 4"-A-FEO 11/04/93 11/04/93
EQUIPMENT I 03-023-100 EQUIPMENT I 03-023-161 03-023-162 03-023-162	B09.21 D: PRE B09.11 B09.11	SSURIZER S PT SSURIZER S UT PT PT	PRAY LINE CIRC PRAY LINE CIRC CIRC	FROM LOO	P 1B 1201-011-3 393-07IPT-060 P 1B 1201-012-4 393-07IUT-019 393-07IPT-060	3"-A-FEO 11/04/93 4"-A-FEO 11/04/93 11/04/93
EQUIPMENT I 03-023-100 EQUIPMENT I 03-023-161 03-023-162 03-023-162 03-023-163	B09.21 D: PRE B09.11 B09.11 B09.11	SSURIZER S PT SSURIZER S UT PT PT UT	PRAY LINE CIRC PRAY LINE CIRC CIRC CIRC	FROM LOO UT-25 UT-25	P 1B 1201-011-3 393-07IPT-060 P 1B 1201-012-4 393-07IUT-019 393-07IPT-060 393-07IUT-019	3"-A-FEO 11/04/93 4"-A-FEO 11/04/93 11/04/93 11/04/93
EQUIPMENT I 03-023-100 EQUIPMENT I 03-023-161 03-023-162 03-023-162 03-023-163 03-023-163	B09.21 D: PRE B09.11 B09.11 B09.11 B09.11	SSURIZER S PT SSURIZER S UT PT PT UT	PRAY LINE CIRC PRAY LINE CIRC CIRC CIRC CIRC	FROM LOO UT-25 UT-25	P 1B 1201-011-3 393-07IPT-060 P 1B 1201-012-4 393-07IUT-019 393-07IPT-060 393-07IUT-019 393-07IUT-019	3"-A-FEO 11/04/93 4"-A-FEO 11/04/93 11/04/93 11/04/93
EQUIPMENT I 03-023-100 EQUIPMENT I 03-023-161 03-023-161	B09.21 D: PRE B09.21 B09.11 B09.11 B09.11 B09.11	SSURIZER S PT SSURIZER S UT PT UT UT TT	PRAY LINE CIRC PRAY LINE CIRC CIRC CIRC CIRC CIRC	FROM LOO UT-25 UT-25	P 1B 1201-011-3 393-07IPT-060 P 1B 1201-012-4 393-07IUT-019 393-07IPT-060 393-07IUT-019 393-07IUT-019 393-07IPT-060	3"-A-FEO 11/04/93 4"-A-FEO 11/04/93 11/04/93 11/04/93 11/04/93
EQUIPMENT I 03-023-100 EQUIPMENT I 03-023-161 03-023-161 03-023-162 03-023-163 03-023-163 03-023-163	B09.21 D: PRE B09.21 B09.11 B09.11 B09.11 B09.11 B09.11	SSURIZER S PT SSURIZER S UT PT UT UT PT PT	PRAY LINE CIRC PRAY LINE CIRC CIRC CIRC CIRC CIRC CIRC	UT-25 UT-25 UT-25	P 1B 1201-011-3 393-07IPT-060 P 1B 1201-012-4 393-07IUT-019 393-07IPT-060 393-07IUT-019 393-07IUT-019 393-07IPT-060 393-07IPT-060	3"-A-FEO 11/04/93 4"-A-FEO 11/04/93 11/04/93 11/04/93 11/04/93 11/04/93

ISI Number I	tem No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Dat
CODE CLASS:	1 C	ODE CATEGO	ORY: B-J			
03-023-170	B09.11	PT	CIRC		393-07IPT-060	11/04/93
03-023-170	B09.11	UT	CIRC	UT-25	393-07IUT-019	11/04/93
03-023-171	B09.11	PT	CIRC		393-07IPT-060	11/04/93
03-023-171	B09.11	UT	CIRC	UT-25	393-07IUT-019	11/04/93
EQUIPMENT I.	D: PRE	ESSURIZER SE	RAY LINE	FROM LOO	P 1B 1201-012-4	"-A-FEO
03-023-176	B09.11	UT	CIRC	UT-25	393-07IUT-016	10/26/93
03-023-176	B09.11	PT	CIRC		393-07IPT-022	10/21/93
EQUIPMENT I.	D: CO!	MBINED PRES	SSURIZER S	PRAY LINE	1201-012-4"-A	-FEO 10/26/93
03-024-450	B09.11	PT	CIRC	0.00	393-07IPT-025	10/21/93
03-024-460	B09.11	PT	CIRC		393-07IPT-025	10/21/93
03-024-470	B09.11	PT	CIRC		393-07IPT-025	10/21/93
03-024-480	B09.11	PT	CIRC		393-07IPT-046	11/28/93
03-024-490	B09.11	PT	CIRC		393-07IPT-046	11/28/93
03-024-500	B09.11	PT	CIRC		393-07IPT-046	11/28/93
03-024-510	B09.11	PT	CIRC		393-07IPT-046	11/28/93
03-024-520	B09.11	PT	CIRC		393-07IPT-037	10/26/93
03-024-530	B09.11	PT	CIRC		393-07IPT-037	
EQUIPMENT 1.	D: PRE		FETY VAL	VE PIPING	1201-032-6"-A-	
03-025-030	B09.11	PT	CIRC		393-07IPT-038	
03-025-110	B09.11	PT	CIRC		393-07IPT'-038	
EQUIPMENT L				VE PIPING	1201-033-6"-A-I	EEO
03-025-130	B09.11	PT	CIRC		393-07IPT-038	10/26/93
EQUIPMENT L	D: PRE	SSURIZER AU	JXILIARY S	PRAY LINE	1201-060-2"-A	-FEO

ISI Number	Item No.	Exam Method	Weld Type Cal. Block	Report No.	Exam Da
CODE CLAS	S: 1 C	ODE CATEG	ORY: B-J		
EQUIPMENT	r LD: LET	TDOWN LINE	FROM LOOP 1B 1201-	022-2"-A-FEO	
03-028-055	B09.21	PT	CIRC	393-07IPT-005	10/16/93
03-028-075	B09.21	PT	CIRC	393-07IPT-005	10/16/93
03-028-0 5	B09.21	PT	CIRC	393-07IPT-005	10/16/93
03-028-095	B09.21	PT	CIRC	393-071PT-005	10/16/93
03-028-105	B09.21	PT	CIRC	393-07IPT-005	10/16/93
03-028-115	B09.21	PT	CIRC	393-07IPT-005	10/16/93
EQUIPMENT	LD: LO	OP 1B DRAIN	1201-022-2"-A-FEO		
03-029-010	B09.21	PT	CIRC	393-07IPT-039	10/26/93
03-030-040	B09.21	PT	CIRC	393-071PT-040	10/26/93
03-030-020	B09.21	PT	CIRC	393-07IFT-040	10/26/93

EQUIPMEN7	LD: LO	OP 1A DRAIN	1201-019-2"-A-FEO		
03-031-010	B09.21	P	CIRC	393-07IPT-043	10/26/93
03-031-060	B09.21	PT	CIRC	393-07IPT-043	10/26/93
03-031-080	B09.21	PT	CIRC	393-07IPT-043	10/26/93
03-031-090	B09.21	PT	CIRC	393-07IPT-043	10/26/93
EQUIPMENT	LD: CH	ARGING LINE	TO LOOP 1A 1201-056	5-2"-A-FEO	
03-032-070A	B09.21	PT	CIRC	393-07IPT-056	11/02/93
)3-032-070C	B09.21	PT	CIRC	393-07IPT-056	11/02/93
EQUIPMENT	I.D: DRA	AIN FROM LO	OP 2B 1201-031-2"-A-F	EO	
03-034-060	B09.21	PT	CIRC	393-07IPT-041	10/26/93

EQUIPMENT I.D: SAFETY INJECTION FROM #2 HP HEADER 1201-147-3"-A-FŁO

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: B-J

03-039-410 B09.21 PT CIRC 393-071PT-042 10/26/93

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Unit 3 Cycle 7 Examination Summary Class 1 Integral Attachments

EQUIPMEN'	T I.D: PIPI	E SUPPOI	RT		
03-017-650	B10.10	PT	FILLET	393-07IPT-079	11/11/93
03-017-730	B10.10	PT	FILLET	393-07IPT-080	11/12/93
03-019-880	B10.10	PT	FILLET	393-07IPT-070	11/09/93
03-023-200	B10.10	PT	FILLET	393-07IPT-053	11/01/93
EQUIPMEN'	rld: REA	CTOR C	OOLANT PUMP 1B \$3-12	01-MP-003	
03-035-013	B10.20	PT	FILLET	393-07IPT-062	11/08/93
EQUIPMENT	ΓLD: REA	CTOR C	OOLANT PUMP 1A S3-12	01-MP-001	

FILLET

03-037-013 B10.20 PT

393-07IPT-068

11/09/93

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: BL1

EQUIPMENT I.D: REACTOR COOLANT PUMP 2A S3-1201-MP-004

03-038-001	B12.10	VT-3	CASING	393-07IVT-068	11/09/93
03-038-001	B12.10	VT-1	CASING	393-07IVT-068	11/09/93
03-038-002	B12.10	VT-3	CASING	393-07IVT-067	11/09/93
03-038-002	B12.10	VT-1	CASING	393-07IVT-067	11/09/93

Unit 3 Cycle 7 Examination Summary Class 1 Pump Case Body

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: BL2

EQUIPMENT I.D: REACTOR COOLANT PUMP 2A S3-1201-MP-004

03-038-003 B12.20 VT-3 393-07IVT-044 11/01/93 03-038-003 B12.20 VT-1 393-07IVT-044 11/01/93

02/24/94

Unit 3 Cycle 7 Examination Summary Class 1 Valve Casing Welds

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: BM1

EQUIPMENT LD: LOOP 2A SAFETY INJECTION 1204-061-12"-A-FEO

 03-019-510D
 B12.30
 PT
 393-07IPT-065
 11/06/93

 03-019-510E
 B12.30
 PT
 393-07IPT-066
 11/06/93

EQUIPMENT I.D: SHUTDOWN COOLING INSIDE CONTAINMENT

 03-021-450B
 B12.30
 PT
 393-07IPT-073
 11/10/93

 03-021-450E
 B12.30
 PT
 393-07IPT-074
 11/10/93

Unit 3 Cycle 7 Examination Summary Class 1 Valve Casing Welds

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: BM2

EQUIPMENT I.D: LOOP 2A SAFETY INJECTION 1204-061-12"-A-FEO

03-019-470A B12.40 VT-1 393-07IVT-059 11/04/93

EQUIPMENT I.D: SHUTDOWN COOLING INSIDE CONTAINMENT

03-021-360A B12.40 UT 393-07IUT-084 10/23/93

Unit 3 Cycle 7 Examination Summary Welds in Control Rod Drive Housings

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: B-O

EQUIPMENT LD: REACTOR VESSEL CLOSURE HEAD \$3-1101-MV-001A

03-002-018-46	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-52	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-64	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-65	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-70	B14.10	PT	CIRC	393-07IPT-050	10/29/93
03-002-018-72	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-74	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-75	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-76	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-83	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-84	B1±.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-85	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-018-90	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-46	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-52	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-64	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-65	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-70	B14.10	PT	CIRC	393-07IPT-050	10/29/93
03-002-019-72	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-74	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-75	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-76	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-83	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-84	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-019-85	B14.10	PT	CIRC	393-07IPT-017	10/20/93
)3-002-019-90	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-46	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-52	B14.10	PT	CIRC	393-07IPT-017	10/20/93

Unit 3 Cycle 7 Examination Summary Welds in Control Rod Drive Housings

ISI Number	Item No.	Exam Method	Weld Type Cal.	Block Report No.	Exam Date
CODE CLASS	: 1 C	ODE CATEG	ORY: B-O		
03-002-020-64	B14.10	PT	CIRC	393-071 Г-017	10/20/93
03-002-020-65	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-70	B14.10	PT	CIRC	393-07IPT-050	10/29/93
03-002-020-72	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-74	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-75	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-76	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-83	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-84	B14.10	PT	CIRC	393-07iPT-017	10/20/93
03-002-020-85	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-020-90	B14.10	PT	CIRC	393-07IPT-017	10/20/93
03-002-021-46	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-52	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-64	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-65	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-70	B14.10	PT	CIRC	393-07IPT-050	10/29/93
03-002-021-72	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-74	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-75	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-76	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-84	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-85	B14.10	PT	CIRC	393-07IPT-016	10/20/93
03-002-021-90	B14.10	PT	CIRC	393-07IPT-016	10/20/93

03/01/94

Unit 3 Cycle 7 Examination Summary Pressure Vessel Welds

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: C-A

EQUIPMENT LD: LETDOWN HEAT EXCHANGER S3-1208-ME-062

03-081-010	C01.10	UT	CIRC	UT-46	393-07IUT-023	11/03/93
03-081-020	C01.10	UT	CIRC	UT-46	393-07IUT-023	11/03/93

Unit 3 Cycle 7 Examination Summary Class 2 Integral Atachments

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: C-C

EQUIPMENT I.D: PIPE SUPPORT

03-048-470	C03.40	MT	FILLET	393-07IMT-039	11/04/93
03-048-510	C03.40	MT	FILLET	393-07IMT-060	11/12/93
03-049-390	C03.40	MT	FILLET	393-07IMT-040	11/04/93
03-049-490	C03.40	MT	FILLET	393-07IMT-038	11/05/93

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: C-F

EQUIPMENT I.D: STEAM GENERATOR #1 SECONDARY SIDE S3-1301-ME089

03-042-043	C05.21	UT	CIRC	UT-41	393-07IUT-050	11/09/93
03-042-043	C05.21	MT	CIRC		393-07IMT-048	11/04/93

EQUIPMENT I.D: STEAM GENERATOR #2 SECONDARY SIDE S3-1301-ME088

03-043-042	C05.21	MT	CIRC		393-07IMT-062	11/12/93
03-043-043	C05.21	UT	CIRC	UT-41	393-07IUT-051	11/08/93
03-043-043	C05.21	MT	CIRC		393-07IMT-021	10/27/93
03-043-043	C05.21	UT	CIRC	UT-41	393-07IUT-053	11/21/93

EQUIPMENT I.D: MAIN FEEDWATER TO STEAM GENERATOR #1 1305-190-18"-C-GK1

03-044-010	C05.21	UT	CIRC	UT-61	393-07IUT-049	11/09/93
03-044-010	C05.21	UT	CIRC	UT-61	393-07IUT-061	12/02/93
03-044-010	C05.21	MT	CIRC	AND THE PARTY OF T	393-07IMT-049	11/04/93

EQUIPMENT I.D: MAIN FEEDWATER TO STEAM GENERATOR #1 1305-190-18"-C-GK1

03-044-010A	C05.22	UT	LONG	393-07IUT-025	11/04/93
03-044-010A	C05.22	MT	LONG	393-07IMT-049	11/04/93
03-044-010B	C05.22	UT	LONG	393-07ІШТ-025	11/04/93
03-044-010B	C05.22	MT	LONG	393-07IMT-049	11/04/93

EQUIPMENT I.D: MAIN FEEDWATER TO STEAM GENERATOR #1 1305-190-18"-C-GK1

C05.21	MT	CIRC		393-07/MT-049	11/04/93
C05.21	MT	CIRC		393-07IMT-058	11/10/93
C05.21	UT	CIRC	UT-51	393-07IUT-062	12/04/93
C05.31	MT	CIRC		393-07IMT-024	10/28/93
C05.21	UT	CIRC	UT-51	393-07IUT-055	11/27/93
C05.21	UT	CIRC	UT-51	393-07IUT-055	11/27/93
C05.21	UT	CIRC	UT-51	393-07IUT-055	11/27/93
	C05.21 C05.21 C05.31 C05.21	C05.21 MT C05.21 UT C05.31 MT C05.21 UT C05.21 UT	C05.21 MT CIRC C05.21 UT CIRC C05.31 MT CIRC C05.21 UT CIRC C05.21 UT CIRC	C05.21 MT CIRC C05.21 UT CIRC UT-51 C05.21 UT CIRC UT-51 C05.21 UT CIRC UT-51 C05.21 UT CIRC UT-51	C05.21 MT CIRC 393-07IMT-058 C05.21 UT CIRC UT-51 393-07IUT-062 C05.21 MT CIRC 393-07IMT-024 C05.21 UT CIRC UT-51 393-07IUT-055 C05.21 UT CIRC UT-51 393-07IUT-055

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: C-F

EQUIPMENT I.D: MAIN FEEDWATER TO STEAM GENERATOR #1 130:-190-20"-C-GK1

03-044-120	C05.21	UT	CIRC	UT-52	393-07IUT-054	11/27/93
03-044-140	C05.21	UT	CIRC	UT-52	393-07IUT-054	11/27/93
03-044-280	C05.21	MT	CIRC	**************************************	393-07IMT-053	11/08/93
03-044-330	C05.21	MT	CIRC		393-07IMT-055	11/10/93
03-044-340	C05.21	MT	CIKC		393-07IMT-067	11/13/93
03-044-380	C05.21	MT	CIRC	TO STATE OF THE BUTCH OF THE BU	393-07IMT-067	11/13/93

EQUIPMENT I.D: MAIN FEEDWATER TO STEAM GENERATOR #2 1305-189-20"-C-GK1

03-045-020	C05.21	MT	CIRC		393-07IMT-065	11/13/93
03-045-050	C05.21	MT	CIRC		393-07IMT-065	11/13/93
03-045-060	C05.21	MT	CIRC		393-07IMT-051	11/06/93
03-045-210	C05.21	MT	CIRC		393-07IMT-022	10/27/93
03-045-230	C05.21	MT	CIRC		393-07IMT-022	10/27/93
03-045-2 0	C05.21	UT	CIRC	UT-52	393-07IUT-056	11/28/93
03-045-250	C05.21	UT	CIRC	UT-52	393-07IUT-056	11/28/93
03-045-270	C05.21	MT	CIRC		393-07IMT-022	10/27/93
03-045-270	C05.21	UT	CIP.C	UT-51	393-07IUT-057	11/28/93
		to the six to be a second as follows	and the last of th	THE STREET STREET, STR	THE COLUMN TWO IS NOT THE OWNER,	AND DESCRIPTION OF THE PARTY OF

EQUIPMENT I.D: MAIN FEEDWATER TO STEAM GENERATOR #2 1305-189-18"-C-GK1

03-045-360	C05.21	UT	CIRC	UT-61	393-07IUT-048	11/06/93
03-045-360	C05.21	UT	CIRC	UT-61	393-07IUT-052	11/29/93
03-045-360	C05.21	MT	CIRC		393-07IMT-022	10/27/93
03-045-320	C05.21	MT	CIRC		393-07IMT-022	10/27/93
03-045-310	C05.21	UT	CIRC	UT-51	393-07IUT-058	11/28/93
03-045-290	C05.21	UT	CIRC	UT-51	393-07IUT-057	11/28/93
03-045-280	C05.21	UT	CIRC	UT-51	393-07IUT-057	11/28/93

EQUIPMENT I.D: AUXILIARY FEEDWATER TO STEAM GENERATOR #1 1305-223-6"-C-GK1

03-046-020 C05.21 MT CIRC 393-07IMT-034 11/02/93

SI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS	8: 2 C	ODE CATEG	ORY: C-F			
03-046-030	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-040	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-050	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-060	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-070	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-080	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-090	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-100	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-110	C05.21	MT	CIRC		393-07IMT-034	.1/02/93
03-046-130	C05.21	MT	CIRC		393-07IMT-034	11/02/93
03-046-140	C05.21	MT	CIRC		393-07IMT-031	11/01/93
03-046-150	C05.21	MT	CIRC		393-07IMT-031	11/01/93
03-046-160	C05.21	MT	CIRC		393-07IMT-031	11/01/93
03-046-170	C05.21	MT	CIRC		393-07IMT-009	10/22/93
03-046-540	C05.21	MT	CIRC		393-07IMT-009	10/22/93
03-046-540	C05.21	UT	CIRC	UT-48	393-07IUT-010	10/22/93
EQUIPMENT	I.D: AUX	LIARY FEED	WATER TO	STEAM GE	NERATOR #1	1305-190-6"-(
03-046-560	C05.21	MT	CIRC		393-07IMT-009	10/22/23
03-046-560	C05.21	UT	CIRC	UT-48	393-07IUT-010	10/22/93
03-046-590	C05.21	MT	CIRC		393-07IMT-009	10/22/93
03-046-590	C05.21	UT	CIRC	UT-48	393-07IUT-010	10/22/93
EQUIPMENT	LD: AUX	LIARY FEED	WATER TO	STEAM GE	NERATOR #1	1305-223-6"-(
03-046-830	C05.21	UT	CIRC	UT-48	393-07IUT-018	10/28/93
03-046-830	C05.21	MT	CIRC		393-07IMT-009	10/22/93
		The state of the s				
EQUIPMENT	I.D: AUX	LIARY FEED	WATER TO	STEAM GE	NERATOR #2	1305-189-6"-(
EQUIPMENT	I.D: AUX	LIARY FEED	WATER TO	STEAM GE	NERATOR #2 393-07IMT-054	1305-189-6"-(11/09/93

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: C-F

EQUIPMENT I.D: AUXILIARY FEEDWATER TO STEAM GENERATOR #2 1305-222-6"-C-GK1

03-047-270	C05.21	MT	CIRC		393-07IMT-023	10/28/93
03-047-270	C05.21	UT	CIRC	UT-48	393-07IUT-021	11/02/93
03-047-280	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-290	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-300	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-310	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-320	C05.21	MT	CIRC		393-07IMT-001	07/06/93
03-047-330	C05.21	MT	CIRC		393-07IMT-001	07/06/93
03-047-350	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-360	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-370	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-380	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-390	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-400	C05.21	MT	CIRC		393-07IMT-030	11/01/93
03-047-590	C05.21	UT	CIRC	UT-48	393-07IUT-026	11/05/93
03-047-590	C05.21	MT	CIRC		393-07IMT-061	11/03/93
	MATERIAL PROPERTY AND ADDRESS OF THE PARTY O	-				

EQUIPMENT I.D: CONTINUOUS BLOWDOWN FROM S/G #1 1301-016-6"-C-HK1

					-
03-048-430	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-420	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-410	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-400	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-390	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-380	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-370	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-360	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-350	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-340	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-330	C05.11	MT	CIRC	393-07IMT-027	11/01/93
03-048-330	C05.11	MT	CIRC	393-07IN	4T-027

03/01/94 Page

ISI Number	Item No.	Exam Method		Cal. Block	Report No.	Exam Date
CODE CLASS	i: 2 C	ODE CATEG	ORY: C-F			
03-048-435	C05.11	MT	CIRC		393-07IMT-028	11/01/93
03-048-440	C05.11	MT	CIRC		393-07IMT-028	11/01/93
EQUIPMENT	I.D: CONT	TINUOUS BL	OWDOWN F	ROM S/G #2	1301-015-6"-C	-HK1
03-049-250	C05.11	MT	CIRC		393-07IMT-029	11/01/93
03-049-260	C05.11	MT	CIRC		393-07IMT-029	11/01/93
03-049-270	C05.11	MT	CIRC		393-07IMT-029	11/01/93
03-049-280	C05.11	MT	CIRC		393-07IMT-029	11/01/93
03-049-290	C05.11	MT	CIRC		393-07IMT-029	11/01/93
03-050-010	C05.21	UT	CIRC	UT-56	393-07IUT-029	11/10/93
			arn a			
-		AND ADDRESS OF THE OWNER.		UT-56		-
03-050-010	C05.21	МТ	CIRC	UT-56	393-07IMT-057	11/10/93
03-050-010 03-050-030A	C05.21	MT MT	CIRC		393-07IMT-057 393-07IMT-057	11/10/93
03-050-010 03-050-030A 03-050-030A	C05.21 C05.22 C05.22	MT MT UT	CIRC LONG LONG	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029	11/10/93 11/10/93 11/10/93
03-050-010 03-050-030A	C05.21 C05.22 C05.22 C05.22	MT MT UT UT	CIRC LONG LONG		393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IUT-029	11/10/93 11/10/93 11/10/93
03-050-010 03-050-030A 03-050-030A	C05.21 C05.22 C05.22	MT MT UT	CIRC LONG LONG	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029	11/10/93 11/10/93 11/10/93
03-050-010 03-050-030A 03-050-030A	C05.21 C05.22 C05.22 C05.22	MT MT UT UT	CIRC LONG LONG	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IUT-029	11/10/93 11/10/93 11/10/93
03-050-010 03-050-030A 03-050-030A 03-050-030B	C05.21 C05.22 C05.22 C05.22	MT UT UT MT	CIRC LONG LONG LONG LONG	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IUT-029 393-07IMT-057	11/10/93 11/10/93 11/10/93 11/10/93
03-050-010 03-050-030A 03-050-030A 03-050-030B 03-050-030B	C05.21 C05.22 C05.22 C05.22 C05.22	MT UT UT MT MT MT	CIRC LONG LONG LONG LONG LONG	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IMT-057 393-07IMT-064	11/10/93 11/10/93 11/10/93 11/10/93 11/11/93
03-050-010 03-050-030A 03-050-030B 03-050-030B 03-050-200A	C05.21 C05.22 C05.22 C05.22 C05.22 C05.22	MT UT UT MT MT MT	CIRC LONG LONG LONG LONG LONG LONG	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IMT-057 393-07IMT-064 393-07IMT-064	11/10/93 11/10/93 11/10/93 11/10/93 11/11/93 11/11/93
03-050-010 03-050-030A 03-050-030B 03-050-030B 03-050-200A 03-050-200B	C05.21 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22	MT UT UT MT MT MT MT	CIRC LONG LONG LONG LONG LONG CIRC	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IMT-057 393-07IMT-064 393-07IMT-064 393-07IMT-064	11/10/93 11/10/93 11/10/93 11/10/93 11/11/93 11/11/93 11/11/93
03-050-010 03-050-030A 03-050-030B 03-050-030B 03-050-200A 03-050-200B 03-050-210	C05.21 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22	MT UT UT MT MT MT MT MT	CIRC LONG LONG LONG LONG LONG CIRC LONG	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IMT-057 393-07IMT-064 393-07IMT-064 393-07IMT-064 393-07IMT-064	11/10/93 11/10/93 11/10/93 11/10/93 11/11/93 11/11/93 11/11/93
03-050-010 03-050-030A 03-050-030B 03-050-030B 03-050-200A 03-050-200B 03-050-210 03-050-211	C05.21 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22	MT UT UT MT MT MT MT MT MT MT	CIRC LONG LONG LONG LONG LONG CIRC LONG LONG LONG	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IMT-057 393-07IMT-064 393-07IMT-064 393-07IMT-064 393-07IMT-064 393-07IMT-064	11/10/93 11/10/93 11/10/93 11/10/93 11/11/93 11/11/93 11/11/93 11/11/93
03-050-010 03-050-030A 03-050-030B 03-050-030B 03-050-200A 03-050-200B 03-050-210 03-050-211 03-050-251	C05.21 C05.22 C05.22 C05.22 C05.22 C05.22 C05.22 C05.21 C05.22 C05.22 C05.21	MT UT UT MT MT MT MT MT MT MT MT	CIRC LONG LONG LONG LONG LONG CIRC LONG CIRC CIRC	UT-56	393-07IMT-057 393-07IMT-057 393-07IUT-029 393-07IMT-057 393-07IMT-064 393-07IMT-064 393-07IMT-064 393-07IMT-064 393-07IMT-066 393-07IMT-056	11/10/93 11/10/93 11/10/93 11/10/93 11/11/93 11/11/93 11/11/93 11/11/93 11/10/93

EQUIPMENT I.D: MAIN STEAM FROM S/G #2 INSIDE CONTAINMENT 1301-001-42"-C-HK1

393-07IMT-050

11/06/93

03-051-010	C05.21	MT	CIRC	393-07IMT-063	11/11/93	
03-051-030A	C05.22	MT	LONG	393-07IMT-063	11/11/93	

LONG

C05.22 MT

03-050-281

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS	: 2 C	ODE CATEG	ORY: C-F			
03-051-030B	C05.22	MT	LONG		393-07IMT-063	11/11/93
EQUIPMENT	I.D: MAIN	STEAM FRO	M S/G #2 IN	ISIDE CONT	FAINMENT 130	1-001-40"-6
03-051-171	C05.22	UT	LONG	UT-55	393-07IUT-030	11/11/93
03-051-171	C05.22	MT	LONG		393-07IMT-063	11/11/93
03-051-190	C05.21	MT	CIRC		393-07IMT-063	11/11/93
03-051-190	C05.21	UT	CIRC	UT-55	393-07IUT-030	11/11/93
03-051-200A	C05.22	MT	LONG		393-07IMT-063	11/11/93
03-051-200B	C05.22	MT	LONG		393-07IMT-063	11/11/93
03-051-210	C05.21	MT	CIRC		393-07IMT-063	11/11/93
03-051-211	C05.22	MT	LONG		393-07IMT-063	11/11/93
03-051-291	C05.22	UT	LONG	UT-55	393-07IUT-028	11/06/93
03-051-291	C05.22	MT	LONG		393-07IMT-037	11/05/93
03-051-300	C05.21	MT	CIRC		393-07IMT-037	11/05/93
03-051-300	C05.21	UT	CIRC	UT-55	393-07IUT-028	11/06/93
03-051-310A	C05.22	MT	LONG		393-07IMT-037	11/05/93
03-051-310A	C05.22	UT	LONG	UT-55	393-07IUT-028	11/06/93
03-051-310B	C05.22	UT	LONG	UT-55	393-07IUT-028	11/06/93
03-051-310B	C05.22	MT	LONG		393-07IMT-037	11/05/93
03-051-320	C05.21	UT	CIRC	UT-55	393-07IUT-028	11/06/93
03-051-320	C05.21	MT	CIRC		393-07IMT-037	11/05/93
03-051-321	C05.22	UT	LONG	UT-55	393-07IUT-028	11/06/93
03-051-321	C05.22	MT	LONG	The Control of the Co	393-07IMT-037	11/05/93
03-051-340	C05.21	UT	CIRC	UT-55	393-07IUT-028	11/06/93
03-051-340	C05.21	MT	CIRC		393-07IMT-037	11/05/93

EQUIPMENT LD: MAIN STEAM FROM S/G #1 OUTSIDE CONTAINMNT 1301-002-40"-C-HK1

03-052-010 C05.21 MT CIRC 393-07IMT-068 11/15/93

EQUIPMENT I.D: MAIN STEAM FROM S/G #1 OUTSIDE CONTAINMNT 1301-582-8"-C-HK1

03-052-070 C05.11 MT CIRC 393-07IMT-035 11/02/93

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ISI Number I	tem No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS:	2 C	ODE CATEG	ORY: C-F			
03-052-070	C05.11	UT	CIRC	UT-49	393-07IUT-024	11/03/93
03-052-080	C05.11	UT	CIRC	UT-49	393-07IUT-024	11/03/93
03-052-080	C05.11	MT	CIRC		393-07IMT-035	11/02/93
03-052-090	C05.11	MT	CIRC		393-07IMT-035	11/02/93
03-052-090	C05.11	UT	CIRC	UT-49	393-07IUT-024	11/03/93
03-052-100	C05.11	UT	CIRC	UT-49	393-07IUT-024	11/03/93
03-052-100	C05.11	MT	CIRC		393-07IMT-035	11/02/93
03-052-110	C05.11	MT	CIRC		393-07IMT-035	11/02/93
03-052-110	C05.11	UT	CIRC	UT-49	393-07IUT-024	11/03/93
03-052-240	C05.11	MT	CIRC	3-100° 41-00 3-16 ° 51-00 00 00 00 00 00 00 00 00 00 00 00 00	393-07IMT-045	11/03/93

EQUIPMENT I.D: MAIN STEAM FROM S/G #1 OUTSIDE CONTAINMNT 1301-309-34"-C-HK1

03-052-270	C05.21	MT	CIRC		393-07IMT-043	11/03/93
03-052-271	C05.22	UT	LONG	UT-54	393-07IUT-047	11/16/93
03-052-311	C05.22	MT	LONG		393-07IMT-043	11/03/93
03-052-311	, C05.22	UT	LONG	UT-54	393-07IUT-047	11/16/93
03-052-320	C05.21	MT	CIRC		393-07IMT-043	11/03/93
03-052-330	C05.21	MT	CIRC		393-07IMT-044	11/03/93
03-052-340	C05.21	MT	CIRC		393-07IMT-043	11/03/93

EQUIPMENT LD: MAIN STEAM FROM S/G #1 OUTSIDE CONTAINMNT 1301-002-40"-C-HK1

03-052-380A	C05.22	MT	LONG	393-07IMT-068	11/15/93
03-052-380B	C05.22	MT	LONG	393-07IMT-066	11/15/93
03-052-380C	C05.22	MT	LONG	393-07IMT-068	11/15/93
03-052-410A	C05.22	MT	LONG	393-07IMT-068	11/15/93
03-052-410B	C05.22	MT	LONG	393-07IMT-068	11/15/93
03-052-410C	C05.22	MT	LONG	393-07IMT-068	11/15/93

EQUIPMENT I.D: MAIN STEAM FROM S/G #1 OUTSIDE CONTAINMNT 1301-583-26"-C-HK1

03-052-420	C05.21	MT	CIRC	393-07IMT-068	11/15/93
03-052-421A	C05.22	MT	LONG	393-07IMT-047	11/04/93
APPROXIMATION OF THE OWNER, THE PROPERTY OF THE OWNER,					

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Da
CODE CLASS	S: 2 C	ODE CATEG	ORY: C-F			
03-052-421B	C05.22	MT	LONG		393-07IMT-047	11/04/93
03-052-451	C05.22	UT	LONG	UT-53	393-07IUT-047	11/16/93
03-052-451	C05.22	MT	LONG		393-07IMT-047	11/04/93
03-052-490	C05.21	MT	CIRC		393-07IMT-068	11/15/93
EQUIPMENT	I.D: MAIN	STEAM FRO	M S/G #1 O	UTSIDE CO	NTAINMNT 130	1-004-6"-
03-052-500	C05.11	UT	CIRC	UT-68	393-07IUT-033	11/04/93
EQUIPMENT	LD: MAIN	STEAM FRO	M S/G #1 O	UTSIDE CO	NTAINMNT 130	1-002-40'
03-052-620	C05.21	MT	CIRC		393-07IMT-068	11/15/93
FOURMENT	I D. MAIN	STEAMERO	M S/G #2 O	LITSIDE CO	NTAINMNT 130	1 001 40
THE PARTITUM TANDERS	WHYN FATLATT.	SILAMINO	W 3/0 #2 0	CISIDE CO	INTALINIVINT 130	/1-001-40
02.052.010	001.01		V71 W 100 W 100			
03-053-010	C05.21	MT	CIRC	UT-55	393-07IMT-046	11/04/93
03-053-010	C05.21	MT UT	CIRC	UT-55	393-07IMT-046 393-07IUT-044	11/04/93
03-053-010 EQUIPMENT 03-053-070 03-053-080	C05.21 I.D: MAIN C05.11 C05.11	UT STEAM FRO MT MT	CIRC M S/G #2 O CIRC CIRC		393-07IUT-044 NTAINMNT 130 393-07IMT-026 393-07IMT-026	11/16/93 01-595-8"- 11/01/93 11/01/93
03-053-010 EQUIPMENT 03-053-070 03-053-080 03-053-090	C05.21 I.D: MAIN C05.11 C05.11 C05.11	UT STEAM FRO MT MT MT	M S/G #2 O CIRC CIRC CIRC		393-07IUT-044 NTAINMNT 130 393-07IMT-026 393-07IMT-026 393-07IMT-026	11/16/93 01-595-8"- 11/01/93 11/01/93
03-053-010 EQUIPMENT 03-053-070 03-053-080 03-053-090 03-053-110	C05.21 I.D: MAIN C05.11 C05.11	UT STEAM FRO MT MT MT	CIRC M S/G #2 O CIRC CIRC		393-07IUT-044 NTAINMNT 130 393-07IMT-026 393-07IMT-026	11/16/93 01-595-8"- 11/01/93 11/01/93
03-053-010 EQUIPMENT 03-053-070 03-053-080 03-053-090 03-053-110 03-053-260	C05.21 I.D: MAIN C05.11 C05.11 C05.11 C05.11	UT I STEAM FRO MT MT MT MT MT	CIRC M S/G #2 O CIRC CIRC CIRC CIRC CIRC	UTSIDE CO	393-07IUT-044 NTAINMNT 130 393-07IMT-026 393-07IMT-026 393-07IMT-026	11/16/93 01-595-8"- 11/01/93 11/01/93 11/01/93 11/01/93
03-053-010 EQUIPMENT 03-053-070 03-053-080 03-053-090 03-053-110 03-053-260 EQUIPMENT 03-053-290 03-053-300	C05.21 I.D: MAIN C05.11 C05.11 C05.11 C05.11 C05.11 C05.21 C05.21	UT STEAM FRO MT MT MT MT STEAM FRO MT MT MT	CIRC M S/G #2 O CIRC CIRC	UTSIDE CO	393-07IUT-044 NTAINMNT 130 393-07IMT-026 393-07IMT-026 393-07IMT-026 393-07IMT-026 NTAINMNT 130 393-07IMT-059 393-07IMT-059	11/16/93 01-595-8"- 11/01/93 11/01/93 11/01/93 01-363-34' 11/01/93 11/01/93
03-053-010 EQUIPMENT 03-053-070 03-053-080 03-053-090 03-053-110 03-053-260 EQUIPMENT 03-053-290 03-053-300 03-053-310A	C05.21 I.D: MAIN C05.11 C05.11 C05.11 C05.11 C05.21 C05.21 C05.22	UT STEAM FRO MT MT MT MT STEAM FRO MT UT	CIRC M S/G #2 O CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC LONG	UTSIDE CO	393-07IUT-044 NTAINMNT 130 393-07IMT-026 393-07IMT-026 393-07IMT-026 393-07IMT-026 NTAINMNT 130 393-07IMT-059 393-07IMT-059 393-07IMT-059	11/16/93 01-595-8"- 11/01/93 11/01/93 11/01/93 11/01/93 11/01/93 11/01/93 11/16/93

EQUIPMENT I.D: MAIN STEAM FROM S/G #2 OUTSIDE CONTAINMNT 1301-578-6"-C-HK1

ISI Number	Item No.	Exam Method		Cal. Block	Report No.	Exam Date
CODE CLASS		ODE CATEG			393-07IMT-066	11/13/93
03-053-370	C05.21		CIRC	AND THE RESIDENCE OF THE PARTY		
03-053-380	C05.11	MT	CIRC		393-07IMT-066	11/13/93
EQUIPMENT	I.D: MAIN	N STEAM FR	OM S/G #2 O	UTSIDE CO	NTAINMNT 130	01-001-40"-
03-053-480A	C05.22	MT	LONG		393-07IMT-032	11/02/93
03-053-480B	C05.22	MT	LONG		393-07IMT-032	11/02/93
03-053-480C	C05.22	MT	LONG		393-07IMT-032	11/02/93
03-053-500	C05.21	MT	CIRC		393-07IMT-046	11/04/93
03-053-520A	C05.22	MT	LONG		393-07IMT-032	11/02/93
03-053-520B	C05.22	MT	LONG		393-07IMT-032	11/02/93
03-053-520C	C05.22	MT	LONG		393-07IMT-032	11/02/93
03-053-545A	C05.22	UT	LONG	UT-53	393-07IUT-041	11/15/93
03-053-545B	C05.22	UT	LONG	UT-53	393-07IUT-041 393-07IUT-041 NTAINMNT 130	11/15/93
03-053-545A 03-053-545B EQUIPMENT	C05.22	UT	LONG	UT-53	393-07IUT-041	11/15/93
03-053-545A 03-053-545B	C05.22 C05.22	UT STEAM FRO	LONG OM S/G #2 O	UT-53 UTSIDE CO	393-07IUT-041 NTAINMNT 130	11/15/93
03-053-545A 03-053-545B EQUIPMENT 03-053-550A 03-053-550A	C05.22 C05.22 I.D: MAIN C05.22	UT V STEAM FRO UT MT	LONG OM S/G #2 O LONG LONG	UT-53 UTSIDE CO	393-07IUT-041 NTAINMNT 130 393-07IUT-045	11/15/93 01-580-26 11/16/93 11/01/93
03-053-545A 03-053-545B EQUIPMENT 03-053-550A 03-053-550A 03-053-590 EQUIPMENT	C05.22 C05.22 I.D: MAIN C05.22 C05.22 C05.21 I.D: SHUT	UT STEAM FROUT MT MT TOOWN COO	LONG DM S/G #2 O LONG LONG CIRC LING INSID	UT-53 UTSIDE CO UT-53	393-07IUT-041 NTAINMNT 130 393-07IUT-045 393-07IMT-025 393-07IMT-025	11/15/93 01-580-26' 11/16/93 11/01/93 11/01/93 7-16"-C-K
03-053-545A 03-053-545B EQUIPMENT 03-053-550A 03-053-550A 03-053-590 EQUIPMENT 03-059-010	C05.22 C05.22 I.D: MAIN C05.22 C05.22	UT STEAM FROUT MT MT TOOWN COO	LONG DM S/G #2 O LONG LONG CIRC	UT-53 UTSIDE CO UT-53	393-07IUT-041 NTAINMNT 130 393-07IUT-045 393-07IMT-025 393-07IMT-025	11/15/93 01-580-26" 11/16/93 11/01/93 11/01/93
03-053-545A 03-053-545B EQUIPMENT 03-053-550A 03-053-550A 03-053-590 EQUIPMENT 03-059-010	C05.22 C05.22 I.D: MAIN C05.22 C05.22 C05.21 I.D: SHUT	UT STEAM FROUT MT MT TOOWN COO	LONG DM S/G #2 O LONG LONG CIRC LING INSID	UT-53 UTSIDE CO UT-53	393-07IUT-041 NTAINMNT 130 393-07IUT-045 393-07IMT-025 393-07IMT-025	11/15/93 01-580-26" 11/16/93 11/01/93 7-16"-C-K
03-053-545A 03-053-545B EQUIPMENT 03-053-550A 03-053-550A 03-053-590 EQUIPMENT 03-059-010 03-059-020	C05.22 I.D: MAIN C05.22 C05.22 C05.21 I.D: SHUT C02.01	UT N STEAM FROUT MT MT TOOWN COO	LONG DM S/G #2 O LONG LONG CIRC LING INSID CIRC	UT-53 UTSIDE CO UT-53	393-07IUT-041 NTAINMNT 130 393-07IUT-045 393-07IMT-025 393-07IMT-025 IMENT 1201-01 393-07IPT-054	11/15/93 01-580-26" 11/16/93 11/01/93 7-16"-C-KJ 11/01/93
03-053-545A 03-053-545B EQUIPMENT 03-053-550A 03-053-550A 03-053-590	C05.22 C05.22 LD: MAIN C05.22 C05.21 LD: SHUT C02.01 C02.01	UT N STEAM FROUT MT MT TOOWN COO PT PT	LONG DM S/G #2 O LONG LONG CIRC LING INSID CIRC CIRC	UT-53 UTSIDE CO UT-53	393-07IUT-041 NTAINMNT 130 393-07IUT-045 393-07IMT-025 393-07IMT-025 IMENT 1201-01 393-07IPT-054 393-07IPT-054	11/15/93 01-580-26"- 11/16/93 11/01/93 11/01/93 7-16"-C-KJ 11/01/93 11/01/93

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: C-F

EQUIPMENT	I.D: SHUTDOWN	COOLING INSIDE	CONTAINMENT	1201-071-10"-C-KEO
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03-059-080	C02.01	PT	CIRC	393-07IPT-054	11/01/93
03-059-100	C02.01	PT	CIRC	393-07IPT-055	11/02/93
03-059-110A	C02.02	PT	LONG	393-07IPT-055	11/02/93
03-059-110B	C02.02	PT	LONG	393-07IPT-055	11/02/93
03-059-120	C02.01	PT	CIRC	393-07IPT-055	11/02/93
03-059-125	C02.02	PT	LONG	393-07IPT-055	11/02/93
03-059-130	C02.01	PT	CIRC	393-07IPT-055	11/02/93
03-059-140A	C02.02	PT	LONG	393-07IPT-055	11/02/93
03-059-140B	C02.02	PT	LONG	393-07IPT-055	11/02/93
03-059-150	C02.01	PT	CIRC	393-07IPT-054	11/01/93
03-059-155	C02.02	PT	LONG	393-07IPT-054	11/01/93
03-059-160	C02.01	PT	CIRC	393-07IPT-054	11/01/93

EQUIPMENT I.D: SHUTDOWN COOLING INSIDE CONTAINMENT 1201-017-18"-C-KEO

03-059-170A	C02.02	PT	LONG	393-07IPT-054	11/01/93

EQUIPMENT LD:

03-059-170B	C05.22	PT	LONG	393-07IPT-054	11/01/93
03-059-170C	C05.22	PT	LONG	393-07IPT-054	11/01/93

EQUIPMENT I.D: SHUTDOWN COOLING INSIDE CONTAINMENT 1201-017-18"-C-KEO

03-059-180	C02.01	PT	CIRC	393-07IPT-054	11/01/93
03-059-185	C02.02	PT	LONG	393-07IPT-058	10/30/93
03-059-190	C02.01	PT	CIRC	393-07IPT-058	10/30/93
03-059-207A	C02.02	PT	LONG	393-07IPT-058	10/30/93
03-059-200B	C02.02	PT	LONG	393-07IPT-058	10/30/93
03-059-290	C02.03	PT	CIRC	393-07IPT-058	10/30/93

EQUIPMENT I.D: SHUTDOWN COOLING INSIDE CONTAINMENT 1201-017-16"-C-KEO

	Item No.	E.Lam Nicino	d Weld Type Cal. Blo	ck Report No.	Exam Date
CODE CLASS:	2 C	ODE CATEO	GORY: C-F		
03-059-435	C02.02	PT	LONG	393-07IPT-049	11/29/93
03-059-440	C02.01	PT	CIRC	393-07IPT-049	11/29/93
03-059-450A	C02.02	PT	LONG	393-07IPT-048	11/28/93
03-059-450B	C02.02	PT	LONG	393-07IPT-048	11/28/93
03-059-460	C02.01	PT	CIRC	393-07IPT-048	11/28/93
03-059-470	C02.02	PT	LONG	393-07IPT-048	11/28/93
03-059-480	C02.01	PT	CIRC	393-07IPT-048	11/28/93
03-061-050	C02.01	PT PT	CIRC	3PT-068-93 3PT-045-93	05/17/93
	-			3PT-045-93	05/04/93
03-061-070	C02.01	PT	CIRC	DL 1 =(14 D = 2)	00/04/23
THE PROPERTY OF THE PARTY OF TH	C02.01	PT	CIRC	3PT-045-93	05/04/93
03-061-090 03-061-091	C02.01	PT PT	CIRC	3PT-045-93 3PT-045-93	05/04/93 05/04/93
03-061-090 03-061-091 EQUIPMENT I.	C02.01	PT PT	CIRC	3PT-045-93 3PT-045-93	05/04/93 05/04/93
03-061-090 03-061-091 EQUIPMENT I. 03-061-1020	C02.01 C02.02	PT PT TDOWN COO	CIRC LONG DLING OUTSIDE CON	3PT-045-93 3PT-045-93 TTAINMENT 1201-	05/04/93 05/04/93 -025-8"-C-K
03-061-090 03-061-091 EQUIPMENT I. 03-061-1020 03-061-1030A	C02.01 C02.02 D: SHU7	PT PT TDOWN COO	CIRC LONG DLING OUTSIDE CON CIRC	3PT-045-93 3PT-045-93 TAINMENT 1201- 3PT-043-93	05/04/93 05/04/93 -025-8"-C-K 05/03/93
03-061-090 03-061-091 EQUIPMENT I. 03-061-1020 03-061-1030A	C02.01 C02.02 D: SHU7 C02.01 C02.02	PT PT TDOWN COO PT PT	CIRC LONG DLING OUTSIDE CON CIRC LONG	3PT-045-93 3PT-045-93 TTAINMENT 1201- 3PT-043-93 3PT-043-93	05/04/93 05/04/93 -025-8"-C-K 05/03/93 05/03/93
03-061-090 03-061-091 EQUIPMENT I. 03-061-1020 03-061-1030A 03-061-1030B	C02.01 C02.02 D: SHU7 C02.01 C02.02 C02.02	PT PT TDOWN COO PT PT PT	CIRC LONG DLING OUTSIDE CON CIRC LONG LONG	3PT-045-93 3PT-045-93 TTAINMENT 1201- 3PT-043-93 3PT-043-93 3PT-043-93	05/04/93 05/04/93 -025-8"-C-K 05/03/93 05/03/93
03-061-090 03-061-091 EQUIPMENT I. 03-061-1020 03-061-1030A 03-061-1030B 03-061-1040	C02.01 C02.02 D: SHU7 C02.01 C02.02 C02.02 C02.01	PT PT PT PT PT PT	CIRC LONG DLING OUTSIDE CON CIRC LONG LONG CIRC	3PT-045-93 3PT-045-93 TAINMENT 1201- 3PT-043-93 3PT-043-93 3PT-043-93	05/04/93 05/04/93 -025-8"-C-K 05/03/93 05/03/93 05/03/93
03-061-070 03-061-090 03-061-091 EQUIPMENT I. 03-061-1020 03-061-1030A 03-061-1030B 03-061-1040 03-061-1040 03-061-1050 03-061-1060A	C02.01 C02.02 C02.01 C02.02 C02.02 C02.01 C02.02	PT PT PT PT PT PT	CIRC LONG CIRC LONG LONG CIRC LONG LONG CIRC LONG	3PT-045-93 3PT-045-93 TTAINMENT 1201- 3PT-043-93 3PT-043-93 3PT-043-93 3PT-043-93	05/04/93 05/04/93 -025-8"-C-K 05/03/93 05/03/93 05/03/93 05/11/93
03-061-090 03-061-091 EQUIPMENT I. 03-061-1020 03-061-1030A 03-061-1030B 03-061-1040 03-061-1041 03-061-1050 03-061-1060A	C02.01 C02.02 C02.01 C02.02 C02.02 C02.01 C02.02 C02.01	PT PT PT PT PT PT PT	CIRC LONG CIRC LONG LONG CIRC LONG CIRC LONG CIRC CIRC	3PT-045-93 3PT-045-93 3PT-043-93 3PT-043-93 3PT-043-93 3PT-043-93 3PT-043-93 3PT-043-93	05/04/93 05/04/93 05/04/93 -025-8"-C-K 05/03/93 05/03/93 05/03/93 05/03/93
03-061-090 03-061-091 EQUIPMENT I. 03-061-1020 03-061-1030A 03-061-1030B 03-061-1040 03-061-1041 03-061-1050	C02.01 C02.02 C02.01 C02.02 C02.02 C02.01 C02.02 C02.01 C02.02	PT	CIRC LONG CIRC LONG LONG CIRC LONG CIRC LONG CIRC LONG CIRC LONG	3PT-045-93 3PT-045-93 3PT-043-93 3PT-043-93 3PT-043-93 3PT-043-93 3PT-043-93 3PT-043-93	05/04/93 05/04/93 05/04/93 -025-8"-C-K 05/03/93 05/03/93 05/03/93 05/03/93 05/03/93

CIRC

03/01/94

03-061-1260

C02.01 PT

05/03/93

3PT-044-93

	Item No.	Exam Method	Weld Type Cal. Block	Report No.	Exam Date
CODE CLASS:	2 C	ODE CATEG	ORY: C-F		
03-061-1300	C02.01	PT	CIRC	3PT-084-93	05/20/93
EQUIPMENT	I.D: SHUT	rdown coo	LING OUTSIDE CONTA	INMENT 120	1-134-10"-C-F
03-061-1430	C02.01	PT	CIRC	3PT-070-93	05/07/93
03-061-1440	C02.01	PT	CIRC	3PT-048-93	05/07/93
03-061-1450A	C02.02	PT	LONG	3PT-048-93	05/07/93
03-061-1450B	C02.02	PT	LONG	3PT-048-93	05/07/93
03-061-1460	C02.01	PT	CIRC	3PT-048-93	05/07/93
03-061-1470	C02.01	PT	CIRC	3PT-048-93	05/07/93
03-061-1510	C02.01	PT	CIRC	3PT-048-93	05/07/93
03-061-1520A	C02.02	PT	LONG	3PT-048-93	05/07/93
03-061-1570B	C02.02	PT	LONG CIRC	3PT-085-93	05/21/93
03-061-1570B 03-061-1580	C02.02	PT PT	LONG	3PT-085-93 3PT-085-93	05/21/93
03-061-1570B 03-061-1580 03-061-1630	C02.01 C02.01	PT PT PT	LONG CIRC	3PT-085-93 3PT-085-93 3PT-085-93	05/21/93 05/21/93 05/21/93
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A	C02.02 C02.01 C02.01	PT PT PT	LONG CIRC CIRC LONG	3PT-085-93 3PT-085-93 3PT-085-93	05/21/93 05/21/93 05/21/93
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B	C02.02 C02.01 C02.01 C02.02	PT PT PT PT	LONG CIRC CIRC LONG LONG	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93	05/21/93 05/21/93 05/21/93 05/21/93
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B	C02.02 C02.01 C02.02 C02.02 C02.02	PT PT PT PT PT	LONG CIRC LONG LONG CIRC	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93	05/21/93 05/21/93 05/21/93 05/21/93 05/21/93
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B 03-061-1650 03-061-1740	C02.02 C02.01 C02.02 C02.02 C02.01 C02.01	PT PT PT PT PT PT	LONG CIRC LONG LONG CIRC CIRC	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-066-93	05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/21/93
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B 03-061-1650 03-061-1750B	C02.02 C02.01 C02.02 C02.02 C02.01 C02.01 C02.02	PT PT PT PT PT PT PT PT	LONG CIRC LONG LONG CIRC CIRC LONG	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-066-93 3PT-066-93	05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/14/93
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B 03-061-1650 03-061-1750B	C02.02 C02.01 C02.02 C02.02 C02.01 C02.01 C02.02	PT PT PT PT PT PT PT PT	LONG CIRC LONG LONG CIRC CIRC LONG	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-066-93 3PT-066-93	05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/14/93
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B 03-061-1650 03-061-1760 EQUIPMENT I	C02.02 C02.01 C02.02 C02.02 C02.01 C02.01 C02.02 C02.01	PT PT PT PT PT PT PT TDOWN COOL	LONG CIRC LONG LONG CIRC CIRC CIRC LONG CIRC LONG CIRC	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-066-93 3PT-066-93 3PT-066-93	05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/14/93 05/14/93 1-017-14"-C-I
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B 03-061-1650 03-061-1740 03-061-1750B 03-061-1760 EQUIPMENT I	C02.02 C02.01 C02.02 C02.02 C02.01 C02.01 C02.01 C02.01 C02.01	PT	LONG CIRC LONG LONG CIRC CIRC CIRC LONG CIRC LONG CIRC CIRC LONG CIRC CIRC	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-066-93 3PT-066-93 3PT-066-93 INMENT 120	05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/14/93 05/14/93 1-017-14"-C-H
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B 03-061-1650 03-061-1740 03-061-1750B 03-061-1760 EQUIPMENT I	C02.02 C02.01 C02.02 C02.02 C02.01 C02.01 C02.01 C02.01 C02.01 C02.01	PT	LONG CIRC LONG LONG CIRC CIRC CIRC LONG CIRC LONG CIRC CIRC CIRC CIRC CIRC CIRC CIRC	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-066-93 3PT-066-93 INMENT 120 3PT-056-93 3PT-056-93	05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/14/93 05/14/93 1-017-14"-C-H 05/11/93 05/11/93
03-061-1570B 03-061-1580 03-061-1630 03-061-1640A 03-061-1640B 03-061-1650 03-061-1740 03-061-1750B 03-061-1760 EQUIPMENT I	C02.02 C02.01 C02.02 C02.02 C02.01 C02.01 C02.01 C02.01 C02.01	PT	LONG CIRC LONG LONG CIRC CIRC CIRC LONG CIRC LONG CIRC CIRC LONG CIRC CIRC	3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-085-93 3PT-066-93 3PT-066-93 3PT-066-93 INMENT 120	05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/21/93 05/14/93 05/14/93 1-017-14"-C-H

EQUIPMENT I.D: SHUTDOWN COOLING OUTSIDE CONTAINMENT 1201-017-18"-C-KEO

ISI Number I	item No.	Exam Metho	d Weld Type Cal. Block	Report No.	Exam Date
CODE CLASS:	2 C	ODE CATE	GORY: C-F		
03-061-1900	C02.01	PT	CIRC	3PT-066-93	05/14/93
03-061-220	C02.01	PT	CIRC	3PT-045-93	05/04/93
03-061-230B	C02.02	PT	LONG	3PT-046-93	05/05/93
03-061-230C	C02.02	PT	LONG	3PT-046-93	05/05/93

03-061-260	C02.01	PT	CIRC	3PT-043-93	05/03/93
03-061-270A	C02.02	PT	LONG	3PT-043-93	05/03/93
03-061-270B	C02.02	PT	LONG	3PT-043-93	05/03/93
03-061-280	C02.01	PT	CIRC	3PT-043-93	05/03/93
03-061-430	C02.01	PT	CIRC	3PT-044-93	05/03/93
03-061-440A	C02.02	PT	LONG	3PT-044-93	05/03/93
03-061-440B	C02.02	PT	LONG	3PT-044-93	05/03/93
03-061-450	C02.01	PT	CIRC	3PT-044-93	05/03/93
03-061-470	C02.01	PT	CIRC	3PT-044-93	05/03/93
03-061-480A	C02.02	PT	LONG	3PT-044-93	05/03/93
03-061-480B	C02.02	PT	LONG	3PT-056-93	05/11/93
03-061-490	C02.01	PT	CIRC	3PT-044-93	05/03/93
CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	CONTRACTOR OF THE PARTY OF THE				

EQUIPMENT I.D: SHUTDOWN COOLING OUTSIDE CONTAINMENT 1201-017-8"-C-KEO

03-061-580	C02.01	PT	CIRC	3PT-043-93	05/03/93
03-061-590A	C02.02	PT	LONG	3PT-043-93	05/03/93
03-061-590B	C02.02	PT	LONG	3PT-043-93	05/03/93
03-061-590C	C02.02	PT	LONG	3PT-043-93	05/03/93
03-061-600	C02.01	PT	CIRC	3PT-043-93	05/03/93
03-061-610	C02.01	PT	CIRC	3PT-043-93	05/03/93
03-061-611	C02.02	PT	LONG	3PT-056-93	05/11/93
03-061-620	C02.01	PT	CIRC	3PT-068-93	05/17/93
The second secon	THE RESERVE AND ADDRESS OF THE PARTY OF THE	and the second second second			

EQUIPMENT I.D: SHUTDOWN COOLING OUTSIDE CONTAINMENT 1201-025-8"-C-KEO

03-061-730	C02.01 PT	CIRC	3PT-049-93	05/07/93

ISI Number	Item No.	Exam Method	d Weld Type Cal. Block	Report No.	Exam Dat
CODE CLASS:	2 C	ODE CATEO	GORY: C-F		
03-061-780	C02.01	PT	CIRC	3PT-049-93	05/07/93
03-061-790A	C02.02	PT	LONG	3PT-049-93	05/07/93
03-061-790B	C02.02	PT	LONG	3PT-049-93	05/07/93
03-061-840	C02.01	PT	CIRC	3PT-049-93	05/07/93
03-061-841	C02.02	PT	LONG	3PT-049-93	05/07/93
03-061-850	C02.01	PT	CIRC	3PT-049-93	05/07/93
03-061-860A	C02.02	PT	LONG	3PT-049-93	05/07/93
03-061-860B	C02.02	PT	LONG	3PT-049-93	05/07/93
03-061-870	C02.01	PT	CIRC	3PT-049-93	05/07/93
03-062-040B	C02.02	PT	LONG	3PT-076-93	05/18/93
EQUIPMENT	I.D: LPSI	PUMP #1 SU	CTION PIPING 1204-03	2-14"-C-KEO	
03-062-040A	C02.02	PT	LONG	3PT-076-93	05/18/93
03-062-040B	C02.02	PT	LONG	3PT-076-93	05/18/93
03-062-050	C02.01	PT	CIRC	3PT-076-93	05/18/93
EQUIPMENT I	LD: LPSI	PUMP #1 SU	CTION PIPING 1204-03	2-16"-C-KEO	
03-062-200	C02.01	PT	CIRC	3PT-058-93	05/11/93
03-062-200 03-062-203A	C02.01	PT PT	CIRC	3PT-058-93	05/11/93 05/11/93
	-				
03-062-203A 03-062-203B	C02.02	PT	LONG	3PT-058-93	05/11/93
03-062-203A 03-062-203B 03-062-206	C02.02	PT PT	LONG	3PT-058-93 3PT-058-93	05/11/93 05/11/93
03-062-203A	C02.02 C02.02 C02.01	PT PT PT	LONG LONG CIRC	3PT-058-93 3PT-058-93 3PT-058-93	05/11/93 05/11/93 05/11/93
03-062-203A 03-062-203B 03-062-206 03-062-207	C02.02 C02.02 C02.01 C02.02	PT PT PT	LONG LONG CIRC LONG	3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93	05/11/93 05/11/93 05/11/93 05/11/93
03-062-203A 03-062-203B 03-062-206 03-062-207 03-062-209 03-062-225	C02.02 C02.02 C02.01 C02.02 C02.01	PT PT PT PT	LONG LONG CIRC LONG CIRC	3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93	05/11/93 05/11/93 05/11/93 05/11/93
03-062-203A 03-062-203B 03-062-206 03-062-207 03-062-209	C02.02 C02.02 C02.01 C02.02 C02.01	PT PT PT PT PT	LONG LONG CIRC LONG CIRC	3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93
03-062-203A 03-062-203B 03-062-206 03-062-207 03-062-209 03-062-225	C02.02 C02.02 C02.01 C02.02 C02.01 C02.01	PT PT PT PT PT PT	LONG LONG CIRC LONG CIRC	3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93
03-062-203A 03-062-203B 03-062-206 03-062-207 03-062-209 03-062-225 03-062-226 EQUIPMENT I	C02.02 C02.02 C02.01 C02.02 C02.01 C02.01	PT PT PT PT PT PT	LONG LONG CIRC LONG CIRC LONG LONG	3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93
03-062-203A 03-062-203B 03-062-206 03-062-207 03-062-209 03-062-225 03-062-226	C02.02 C02.01 C02.02 C02.01 C02.01 C02.02 LD: LPSI	PT PT PT PT PT PT PT PT PT	LONG LONG CIRC LONG CIRC LONG CIRC CIRC CIRC CORC CORC CORC LONG CORC CORC LONG CORC LONG CORC LONG	3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93 3PT-058-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93

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ISI Number Exam Method Weld Type Cal. Block Report No. Exam Date Item No. CODE CLASS: 2 CODE CATEGORY: C-F EQUIPMENT I.D: LPSI PUMP #2 SUCTION PIPING 1204-033-16"-C-KEO 3PT-026-93 04/22/93 03-066-200 C02.01 PT CIRC 3PT-026-93 04/22/93 CIRC 03-066-220 C02.01 PT 3PT-026-93 04/22/93 LONG 03-066-250B C02.02 PT EQUIPMENT I.D: LPSI PUMP #2 SUCTION PIPING 1201-050-14"-C-KEO 3PT-026-93 04/22/93 CIRC 03-066-330 C02.01 PT 3PT-026-93 04/22/93 CIRC 03-066-360 PT C02.01 03-066-370A C02.02 PT LONG 3PT-026-93 04/22/93 3PT-026-93 04/22/93 03-066-370B LONG C02.02 PT 3PT-026-93 04/22/93 03-066-380 C02.01 CIRC 3PT-026-93 04/22/93 03-066-390 C02.01 PT CIRC EQUIPMENT I.D: LPSI PUMP #2 SUCTION PIPING 1201-050-16"-C-KEO 3PT-031-93 04/26/93 03-066-440 PT CIRC C02.01 3PT-026-93 04/22/93 03-066-450A C02.02 PT LONG LONG 3PT-026-93 04/22/93 03-066-450B C02.02 PT 03-066-460 C02.01 PT CIRC 3PT-031-93 04/26/93 03-066-550 C02.01 PT CIRC 3PT-053-93 05/11/93 05/11/93 03-066-560A C02.02 PT LONG 3PT-053-93 03-066-560B C02.02 T LONG 3PT-053-93 05/11/93 03-066-580 C02.01 PT CIRC 3PT-053-93 05/11/93 CIRC 3PT-053-93 05/11/93 03-066-600 C02.01 PT 03-066-710 C02.01 PT CIRC 3PT-026-93 04/22/93 LONG 3PT-026-93 04/22/93 03-066-711A C02.02 PT LONG 3PT-026-93 04/22/93 03-066-711B C02.02 PT 04/22/93 03-066-712 C02.01 PT CIRC 3PT-026-93

EQUIPMENT I.D: COMBINED DISCHARGE LPSI PUMPS 1 & 2 1204-038-8"-C-KEI

03-072-030 C02.02 PT LONG 3PT-025-93 05/21/93

ISI Number	Item No.	Exam Me	ethod Weld Type Cal	. Block Report No.	Exam Dat
CODE CLASS	: 2 C	ODE CA	TEGORY: C-F		
EQUIPMENT	I.D: COM	BINED D	ISCHARGE LPSI PUN	MPS 1 & 2 1204-038-1	0"-C-KEI
03-072-040	C02.01	PT	CIRC	3PT-025-93	05/21/93
03-072-050A	C02.02	PT	LONG	3PT-025-93	05/21/93
03-072-050B	C02.02	PT	LONG	3PT-025-93	05/21/93
03-072-060	C02.01	PT	CIRC	3PT-025-93	05/21/93
03-072-060A	C02.02	PT	LONG	3PT-025-93	05/21/93
03-072-080A	C02.02	PT	LONG	3PT-025-93	05/21/93
03-072-090	C02.01	PT	CIRC	3PT-025-93	05/21/93
EQUIPMENT 03-072-1000	I.D: COM C02.01	BINED D	ISCHARGE LPSI PUN CIRC	MPS 1 & 2 1204-038-1 3PT-072-93	4"-C-KEI 05/18/93
03-072-1000A	C02.02	PT	LONG	3PT-072-93	05/18/93
03-072-1010	C02.01	PT	CIRC	3PT-072-93	05/18/93
03-072-1020A	C02 02	PT	LONG	3PT-072-93	05/18/93
03-072-1020B	C02.02	PT	LONG	3PT-072-93	05/18/93
03-072-1030	C02.01	PT	CIRC	3PT-072-93	05/18/93
03-072-1260	C02.01	PT	CIRC	3PT-080-93	05/18/93
03-072-1270	C02.02	PT	LONG	3PT-080-93	05/18/93
03-072-1270A	C02.02	PT	LONG	3PT-080-93	05/18/93
03-072-1280	C02.01	PT	CIRC	3PT-080-93	05/18/93
03-072-1280A	C02.02	PT	LONG	3PT-080-93	05/18/93
03-072-1290	C02.01	PT	CIRC	3PT-080-93	05/18/93
EQUIPMENT	I.D: COM	BINED D	ISCHARGE LPSI PUN	MPS 1 & 2 1204-038-1	0"-C-KEI
03-072-280A	C02.02	PT	LONG	3PT-032-93	04/26/93
03-072-290	C02.01	PT	CIRC	3PT-032-93	04/26/93
EQUIPMENT	I.D: COM	BINED D	ISCHARGE LPSI PUN	MPS 1 & 2 1204-038-1	4"-C-KEI
03-072-380	C02.01	PT	CIRC	3PT-075-93	05/18/93
03-072-380A	C02.02	PT	LONG	3PT-075-93	05/18/93

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CODE CLAS	s. 2 C	ODE CA	TEGORY: C-F		
03-072-400B	C02.02	PT PT	LONG	3PT-075-93	05/18/93
03-072-460	C02.01	PT	CIRC	3PT-080-93	05/18/93
03-072-470A	C02.02	PT	LONG	3PT-080-93	05/18/93
03-072-470B	C02.02	PT	LONG	3PT-080-93	05/18/93
03-072-480	C02.01	PT	CIRC	3PT-080-93	05/18/93
EQUIPMENT	I.D: COM	BINED D	ISCHARGE LPSI PUM	PS 1 & 2 1204-034-8	"-C-KEI
03-072-520	C02.02	PT	LONG	3PT-060-93	05/12/93
EQUIPMENT	I.D: COM	BINED D	ISCHARGE LPSI PUM	PS 1 & 2 1204-034-1	0"-C-KEI
03-072-540	C02.01	PT	CIRC	3PT-060-93	05/12/93
72-550A	C02.02	PT	LONG	3PT-060-93	05/12/93
)3-072-550B	C02.02	PT	LONG	3PT-060-93	05/12/93
3-072-560	C02.01	PT	CIRC	3PT-060-93	05/12/93
)3-072-570A	C02.02	PT	LONG	3PT-060-93	05/12/93
)3-072-570B	C02.02	PT	LONG	3PT-060-93	05/12/93
03-072-580	C02.01	PT	CIRC	3PT-060-93	05/12/93
3-072-600	C02.01	PT	CIRC	3PT-060-93	05/12/93
3-072-630	C02.01	PT	CIRC	3PT-060-93	05/12/93
3-072-790	C02.01	PT	CIRC	3PT-080-93	05/18/93
EOUIPMENT	LD: COM	BINED D	ISCHARGE LPSI PUM	PS 1 & 2 1204-038-1	4"-C-KEI
3-072-874	C02.01	PT	CIRC	3PT-074-93	05/18/93
3-072-876A	C02.02	PT	LONG	3PT-074-93	05/18/93
3-072-876B	C02.02	PT	LONG	3PT-074-93	05/18/93
3-072-878	C02.01	PT	CIRC	3PT-074-93	05/18/93
3-072-880	C02.02	PT	LONG	3PT-074-93	05/18/93
3-072-882	C02.01	bi	CIRC	3PT-074-93	05/18/93
3-072-882A	C02.02	PT	LONG	3PT-074-93	05/18/93
3-072-884	C02.01	PT	CIRC	3PT-074-93	05/18/93
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ISI Number	Item No.	Exam Meth	od Weld Type Cal. I	Block Report No.	Exam Da
CODE CLASS	8: 2 C	ODE CATE	GORY: C-F		
03-072-980	C02.01	PT	CIRC	3PT-072-93	05/18/93
03-072-990A	C02.02	PT	LONG	3PT-072-93	05/18/93
03-072-990B	C02.02	PT	LONG	3PT-072-93	05/18/93
EQUIPMENT	I.D: LPSI	HEADER	204-038-14"-C-KE1		
03-073-090	C02.02	PT	CIRC	3PT-057-93	05/11/93
03-073-091	C02.02	PT	LONG	3PT-057-93	05/11/93
03-073-100	C02.01	PT	CIRC	3PT-057-93	05/11/93
EQUIPMENT	I.D: LPSI	HEADER 1	204-036-8"-C-KE1		
03-073-1070	C02.01	PT	CIRC	3PT-047-93	05/07/93
03-073-1090	C02.01	PT	CIRC	3PT-047-93	05/07/93
03-073-1100A	C02 02	PT	LONG	3PT-047-93	05/07/93
03-073-1100B	C02.62	PT	LONG	3PT-047-93	05/07/93
03-073-1100C	C02.02	PT	LONG	3PT-047-93	05/07/93
EQUIPMENT	I.D: LPSI	HEADER 1	204-038-14"-C-KE1 LONG	3PT-067-93	05/14/93
03-073-110B	C02.02	PT	LONG	3PT-057-93	05/11/93
EQUIPMENT	I.D: LPSI	HEADER 1	204-036-8"-C-KE1	Transferred Street and and employed blooms of transferred to the second street and the s	
03-073-1110	C02.01	PT	CIRC	3PT-047-93	05/07/93
03-073-1120	C02.01	PT	CIRC	3PT-047-93	05/07/93
03-073-1140	C02.01	PT	CIRC	3PT-047-93	05/07/93
03-073-1150	C02.01	PT	CIRC	3PT-047-93	05/07/93
03-073-1160A	C02.02	PT	LONG	3PT-047-93	05/07/93
)3-073-1160B	C02.02	PT	LONG	3PT-047-93	05/07/93
03-073-1170	C02.01	PT	CIRC	3PT-047-93	05/07/93
3-073-1171	C02.02	PT	LONG	3PT-047-93	05/07/93
03-073-1180	C02.01	PT	CIRC	3PT-047-93	05/07/93

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CODE CLASS					
03-073-1190B	6: 2 C C02.02	and the same of the said	TEGORY: C-F LONG	3PT-047-93	05/07/93
EQUIPMENT	I.D: LPSI	HEADE	R 1204-038-14"-C-KE1		
03-073-120	C02.01	PT	CIRC	3PT-067-93	05/14/93
EQUIPMENT	I.D: LPSI	HEADE	R 1204-036-8"-C-KE1		
03-073-1200	C02.01	PT	CIRC	3PT-047-93	05/07/93
03-073-1510	C02.01	PT	CIRC	3PT-071-93	05/17/93
03-073-1520B	C02.02	PT	LONG	3PT-071-93	05/17/93
03-073-1530	C02.01	PT	CIRC	3PT-071-93	05/17/93
03-073-1540A	C02.02	PT	LONG	3PT-071-93	05/17/93
03-073-1540B	C02.02	PT	LONG	3PT-071-93	05/17/93
03-073-1550	C02.01	PT	CIRC	3PT-071-93	05/17/93
		PT	R 1204-041-8"-C-KE1 CIRC	3PT-071-93	05/17/93
03-073-1560	C02.01	PT		3PT-071-93	05/17/93
03-073-1560	C02.01	PT HEADEI	CIRC	3PT-071-93 3PT-051-93	05/17/93
03-073-1560 EQUIPMENT	C02.01	PT HEADEI PT	CIRC R 1204-145-8"-C-KE1		
03-073-1560 EQUIPMENT 03-073-1620 03-073-1620	C02.01 I.D: LPSI C02.01	PT HEADEI PT	CIRC R 1204-145-8"-C-KE1 CIRC	3PT-051-93	05/10/93
03-073-1560 EQUIPMENT 03-073-1620 03-073-1630	C02.01 I.D: LPSI C02.01 C02.01	PT HEADEI PT PT	CIRC R 1204-145-8"-C-KE1 CIRC CIRC	3PT-051-93 3PT-083-93	05/10/93
03-073-1560 EQUIPMENT 03-073-1620	C02.01 I.D: LPSI C02.01 C02.01	PT HEADEI PT PT PT	CIRC R 1204-145-8"-C-KE1 CIRC CIRC CIRC	3PT-051-93 3PT-083-93 3PT-051-93	05/10/93 05/20/93 05/10/93
03-073-1560 EQUIPMENT 03-073-1620 03-073-1630 03-073-1661	C02.01 I.D: LPSI C02.01 C02.01 C02.01	PT HEADER PT PT PT PT	CIRC R 1204-145-8"-C-KE1 CIRC CIRC CIRC LONG	3PT-051-93 3PT-083-93 3PT-051-93 3PT-078-93	05/10/93 05/20/93 05/10/93 05/19/93
03-073-1560 EQUIPMENT 03-073-1620 03-073-1620 03-073-1661 03-073-1661	C02.01 I.D: LPSI C02.01 C02.01 C02.01 C02.02 C02.01	PT HEADER PT PT PT PT PT	CIRC R 1204-145-8"-C-KE1 CIRC CIRC CIRC LONG CIRC	3PT-051-93 3PT-083-93 3PT-051-93 3PT-078-93 3PT-051-93	05/10/93 05/20/93 05/10/93 05/19/93
03-073-1560 EQUIPMENT 03-073-1620 03-073-1620 03-073-1630 03-073-1661 03-073-1670 03-073-1680A 03-073-1680B	C02.01 I.D: LPSI C02.01 C02.01 C02.02 C02.02	PT HEADER PT PT PT PT PT	CIRC CIRC CIRC CIRC CIRC LONG CIRC LONG	3PT-051-93 3PT-083-93 3PT-051-93 3PT-051-93 3PT-051-93	05/10/93 05/20/93 05/10/93 05/10/93 05/10/93
03-073-1560 EQUIPMENT 03-073-1620 03-073-1620 03-073-1630 03-073-1661 03-073-1670 03-073-1680A 03-073-1680B 03-073-1690	C02.01 I.D: LPSI C02.01 C02.01 C02.02 C02.02 C02.02 C02.02	PT HEADER PT PT PT PT PT PT	CIRC CIRC CIRC CIRC LONG CIRC LONG LONG LONG	3PT-051-93 3PT-083-93 3PT-051-93 3PT-051-93 3PT-051-93 3PT-078-93	05/10/93 05/20/93 05/10/93 05/10/93 05/10/93 05/19/93
03-073-1560 EQUIPMENT 03-073-1620 03-073-1620 03-073-1630 03-073-1661 03-073-1670 03-073-1680A 03-073-1680B 03-073-1690 03-073-1780	C02.01 I.D: LPSI C02.01 C02.01 C02.02 C02.02 C02.02 C02.02 C02.01 C02.01	PT HEADER PT PT PT PT PT PT PT PT	CIRC CIRC CIRC CIRC LONG CIRC LONG CIRC LONG CIRC	3PT-051-93 3PT-083-93 3PT-051-93 3PT-051-93 3PT-051-93 3PT-078-93 3PT-078-93	05/10/93 05/20/93 05/10/93 05/19/93 05/10/93 05/19/93
03-073-1560 EQUIPMENT 03-073-1620 03-073-1620 03-073-1630 03-073-1661 03-073-1670 03-073-1680A 03-073-1680B 03-073-1690 03-073-1780	C02.01 I.D: LPSI C02.01 C02.01 C02.02 C02.02 C02.02 C02.02 C02.01 C02.01	PT HEADER PT PT PT PT PT PT PT PT	CIRC CIRC CIRC LONG CIRC LONG CIRC LONG CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIR	3PT-051-93 3PT-083-93 3PT-051-93 3PT-051-93 3PT-051-93 3PT-078-93 3PT-078-93	05/10/93 05/20/93 05/10/93 05/19/93 05/10/93 05/19/93

ISI Number	Item No.			. Block Report No.	Exam Da
CODE CLASS	3: 2 C	ODE CA	TEGORY: C-F		
EQUIPMENT	I.D: LPSI	HEADER	1204-037-8"-C-KE1		
03-073-1890	C02.01	PT	CIRC	3PT-086-93	05/21/93
03-073-1920	C02.01	PT	CIRC	3PT-077-93	05/18/93
03-073-1921	C02.02	PT	LONG	3PT-051-93	05/10/93
03-073-1940A	C02.02	PT	LONG	3PT-051-93	05/10/93
03-073-1940B	C02.02	PT	LONG	3PT-051-93	05/10/93
03-073-1950	C02.01	PT	CIRC	3PT-077-93	05/18/93
03-073-1980	C02.01	PT	CIRC	3PT-077-93	05/18/93
EQUIPMENT	LD: LPSI	HEADER	1204-039-8"-C-KE1		
03-073-2090	C02.01	PT	CIRC	3PT-078-93	05/19/93
03-073-2100	C02 01	PT	CIRC	3PT-078-93	05/19/93
03-073-2110	C02.01	PT	CIRC	3PT-086-93	05/21/93
03-073-250	C02.01	PT	CIRC	3PT-086-93	05/21/93
03-073-250	C02.01	PT	CIRC	3PT-086-93	05/21/93
03-073-260A	C02.02	PT	LONG	3PT-086-93	05/21/93
03-073-260B	C02.02	PT	LONG	3PT-086-93	05/21/93
03-073-270	C02.01	PT	CIRC	3PT-086-93	05/21/93
03-073-340	C02.01	PT	CIRC	3PT-052-93	05/10/93
03-073-350A	C02.02	PT	LONG	3PT-052-93	05/10/93
03-073-350B	C02.02	PT	LONG	3PT-052-93	05/10/93
03-073-360	C02.01	PT	CIRC	3PT-052-93	05/10/93
03-073-361	C02.02	PT	LONG	3PT-052-93	05/10/93
03-073-370	C02.01	PT	CIRC	3PT-052-93	05/10/93
03-073-520	C02.01	PT	CIRC	3PT-077-93	05/18/93
)3-073-525	C02.02	PT	LONG	3PT-051-93	05/10/93
EQUIPMENT	I.D: LPSI	HEADER	1204-038-8"-C-KE1		
	C02.01	PT	CIRC	3PT-051-93	05/10/93
	The second section of the second	TOTAL	CIDC	STOP OF LOS	0011101

CODE CLASS	S: 2 C	ODE CA	TEGORY: C-F		
03-073-600A	C02.02	PT	LONG	3PT-051-93	05/10/93
03-073-600B	C02.02	PT	LONG	3PT-051-93	05/10/93
03-073-610	C02.01	PT	CIRC	3PT-051-93	05/10/93
03-073-730A	C02.02	PT	LONG	3PT-063-93	05/13/93
03-073-730B	C02.02	PT	LONG	3PT-063-93	05/13/93
03-073-760	C02.01	PT	CIRC	3PT-063-93	05/13/93
03-073-770B	C02.02	PT	LONG	3PT-063-93	05/13/93
03-073-780	C02.01	PT	CIRC	3PT-063-93	05/13/93
03-073-810	C02.01	PT	CIRC	3PT-062-93	05/13/93
EQUIPMENT	LD: LPSI	HEADER	R 1204-042-8"-C-KE1		
03-073-830	C02.01	PT	CIRC	3PT-083-93	05/20/93
03-073-850	C02.01	PT	CIRC	3PT-062-93	05/13/93
	C02.01	JMP #1 T	TO SHUTDOWN COOL	ING HX #1 1206-00	1-8"-C-KEO 05/11/93
EQUIPMENT 03-074-030					
03-074-030 03-074-040A	C02.01	PT	CIRC	3PT-054-93	05/11/93
03-074-030 03-074-040A 03-074-040B	C02.01	PT PT	CIRC	3PT-054-93 3PT-054-93	05/11/93
03-074-030 03-074-040A 03-074-040B	C02.01 C02.02 C02.02	PT PT PT	CIRC LONG LONG	3PT-054-93 3PT-054-93 3PT-054-93	05/11/93 05/11/93 05/11/93
03-074-040A 03-074-040B 03-074-050 03-074-060	C02.01 C02.02 C02.02 C02.01	PT PT PT	CIRC LONG LONG CIRC	3PT-054-93 3PT-054-93 3PT-054-93	05/11/93 05/11/93 05/11/93
03-074-030 03-074-040A 03-074-040B 03-074-050 03-074-060	C02.01 C02.02 C02.02 C02.01	PT PT PT PT	CIRC LONG LONG CIRC CIRC	3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93	05/11/93 05/11/93 05/11/93 05/11/93
03-074-030 03-074-040A 03-074-040B 03-074-050 03-074-060 03-074-070A	C02.01 C02.02 C02.02 C02.01 C02.01	PT PT PT PT PT	CIRC LONG LONG CIRC CIRC LONG	3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93
03-074-030 03-074-040A 03-074-040B 03-074-050 03-074-060 03-074-070A 03-074-070B	C02.01 C02.02 C02.01 C02.01 C02.02 C02.02	PT PT PT PT PT PT	CIRC LONG LONG CIRC CIRC LONG LONG	3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93
03-074-030 03-074-040A 03-074-040B 03-074-050 03-074-060 03-074-070A 03-074-070B 03-074-080 03-074-250 EQUIPMENT	C02.01 C02.02 C02.01 C02.01 C02.02 C02.02 C02.01 C02.01	PT PT PT PT PT PT PT T T PT PT T T T T	CIRC LONG CIRC CIRC LONG LONG CIRC CIRC CIRC	3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/14/93
03-074-030 03-074-040A 03-074-040B 03-074-050 03-074-060 03-074-070A 03-074-070B 03-074-080 03-074-250 EQUIPMENT 03-074-260	C02.01 C02.02 C02.01 C02.01 C02.02 C02.01 C02.01 C02.01 C02.01	PT	CIRC LONG LONG CIRC CIRC LONG LONG CIRC CIRC CIRC CIRC	3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-065-93 ING HX #1 1206-033	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/14/93
03-074-030 03-074-040A 03-074-040B 03-074-050 03-074-060 03-074-070A 03-074-070B 03-074-080 03-074-250 EQUIPMENT	C02.01 C02.02 C02.01 C02.01 C02.02 C02.02 C02.01 C02.01	PT PT PT PT PT PT PT T T PT PT T T T T	CIRC LONG CIRC CIRC LONG LONG CIRC CIRC CIRC	3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/14/93
03-074-030 03-074-040A 03-074-040B 03-074-050 03-074-060 03-074-070A 03-074-070B 03-074-080 03-074-250 EQUIPMENT 03-074-260	C02.01 C02.02 C02.01 C02.01 C02.02 C02.01 C02.01 C02.01 C02.01 C02.01 C02.01	PT	CIRC LONG LONG CIRC CIRC LONG LONG CIRC CIRC CIRC CIRC	3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-054-93 3PT-065-93 ING HX #1 1206-033 3PT-065-93	05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 05/11/93 3-12"-C-KE(05/14/93 05/17/93

Item No. Exam Method Weld Type Cal. Block Exam Date ISI Number Report No. CODE CLASS: 2 CODE CATEGORY: C-F EQUIPMENT I.D: CS PUMP #1 TO SHUTDOWN COOLING HX #1 1206-001-12"-C-KEO 03-074-340A C02.02 PT LONG 3PT-065-93 05/14/93 03-074-340B C02.02 PT LONG 3PT-065-93 05/14/93 03-074-340C C02.02 LONG PT 3PT-065-93 05/14/93 03-074-350 C02.01 CIRC PT 3PT-065-93 05/14/93 03-074-370 C02.01 PT CIRC 3PT-073-93 05/17/93 EQUIPMENT I.D: CS PUMP #2 TO SHUTDOWN COOLING HX #2 1206-002-8"-C-KEI 03-075-030 C02.01 PT CIRC 3PT-028-93 04/23/93 03-075-040A C02.02 PT LONG 3PT-028-93 04/23/93 03-075-040B C02.02 PT LONG 3PT-028-93 04/23/93 03-075-050 C02.01 PT CIRC 3PT-028-93 04/23/93 03-075-050A C02.02 PT LONG 3PT-028-93 04/23/93 03-075-052 C02.01 PT CIRC 3PT-028-93 04/23/93 EQUIPMENT I.D: CS PUMP #2 TO SHUTDOWN COOLING HX #2 1206-032-12"-C-K-1 03-075-180 C02.02 PT LONG 3PT-034-93 04/27/93 03-075-190 C02.01 PT CIRC 3PT-034-93 04/27/93 03-075-270A C02.02 PT LONG 3PT-041-93 04/30/93 03-075-280 C02.01 PT CIRC 3PT-041-93 04/30/93 EQUIPMENT I.D: CS PUMP #2 TO SHUTDOWN COOLING HX #2 1206-032-12"-C-KEI 03-075-290 C02.01 PT CIRC 3PT-030-93 04/26/93 03-075-290A C02.02 PT LONG 04/26/93 3PT-030-93 03-075-300 C02.01 PT CIRC 3PT-030-93 04/26/93 C02.02 03-075-310A PT LONG 3PT-030-93 04/26/93 03-075-310B PT LONG C02.02 3PT-030-93 04/26/93 03-075-320 CIRC C02.01 PT 3PT-030-93 04/26/93

3PT-079-93

05/20/93

CIRC

03-075-360

C02.01 PT

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: C-F

EQUIPMENT I.D: COMBINED SDCHX DISCHARGE TO LPSI HEADER 1206-028-12"-C-KEI

03-076-030	C02.01	PT	CIRC	3PT-035-93	04/27/93
03-076-040A	C02.02	PT	LONG	3PT-035-93	04/27/93
03-076-040B	C02.02	PT	LONG	3PT-035-93	04/27/93
03-076-050	C02.01	PT	CIRC	3PT-035-93	04/27/93

EQUIPMENT I.D: COMBINED SDCHX DISCHARGE TO LPSI HEADER 1206-027-14"-C-KEI

03-076-150	C02.01	PT	CIRC	3PT-087-93	05/24/93
03-076-180	C02.01	PT	CIRC	3PT-027-93	04/22/93
03-076-190A	C02.02	PT	LONG	3PT-027-93	04/22/93
03-076-190B	C02.02	PT	LONG	3PT-027-93	04/22/93
03-076-190C	C02.02	PT	LONG	3PT-027-93	04/22/93
03-076-200	C02.01	PT	CIRC	3PT-027-93	04/22/93

EQUIPMENT I.D: COMBINED SDCHX DISCHARGE TO LPSI HEADER 1204-035-14"-C-KEI

03-076-300	C02.01	PT	CIRC	3PT-061-93	05/12/93
03-076-310	C02.02	PT	LONG	3PT-061-93	05/12/93
03-076-311	C02.02	PT	LONG	3PT-061-93	05/12/93

EQUIPMENT I.D: COMBINED SDCHX DISCHARGE TO LPSI HEADER 1204-038-14"-C-KEI

03-076-490	C02.01	PT	CIRC	3PT-061-93	05/12/93
03-076-500A	C02.02	PT	LONG	3PT-061-93	05/12/93
03-076-520	C.21	PT	CIRC	3PT-061-93	05/12/93
03-076-530A	C02.02	PT	LONG	3PT-061-93	05/12/93
03-076-540	C02.01	PT	CIRC	3PT-061-93	05/12/93

EQUIPMENT I.D: COMBINED SDCHX DISCHARGE TO LPSI HEADER 1206-053-8"-C-KEI

03-076-820	C02.01	PT	CIRC	3PT-023-93	02/21/93
03-076-830A	C02.02	PT	LONG	3PT-023-93	02/21/93
03-076-830B	C02.02	PT	LONG	3PT-023-93	02/21/93

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			Weld Type Cal. Block	Report No.	
OJ-076-840	S: 2 C	ODE CATEG	ORY: C-F	3PT-023-93	02/21/93
EQUIPMENT	r I.D: COM	BINED SDCH	IX DISCHARGE TO LPS	HEADER 12	06-027-14"-C-KE
03-076-870	C02.01	PT	CIRC	3PT-038-93	04/28/93
EQUIPMENT	LD: SHUT	TDOWN COO	LING HEAT EXCHANG	R #1 OUTLET	1206-003-12"-C
03-077-030	C02.01	PT	CIRC	3PT-036-93	04/27/93
03-077-040A	C02.02	PT	LONG	3PT-036-93	04/27/93
03-077-040B	C02.02	PT	LONG	3PT-036-93	04/27/93
03-077-050	C02.01	PT	CIRC	3PT-036-93	04/27/93
03-077-060	C02.01	РТ	CIRC	3PT-036-93	04/27/93
03-077-070A	C02.02	PT	LONG	3PT-036-93	04/27/93
03-077-070B	C02.02	PT	LONG	3PT-036-93	04/27/93
					and the same of th
4.51	C02.01	PT TDOWN COO	CIRC LING HEAT EXCHANG	3PT-036-93 R #1 OUTLET	04/27/93 1206-003-8"-C-I
EQUIPMENT		DOWN COO			
EQUIPMENT 03-077-230	LD: SHUT	DOWN COO	LING HEAT EXCHANG	R #1 OUTLET	1206-003-8"-C-I
EQUIPMENT 03-077-230 03-077-240A EQUIPMENT	C02.01 C02.02	PT PT TDOWN COL	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE	R #1 OUTLET 3PT-039-93 3PT-039-93 R #1 OUTLET	1206-003-8"-C-F 04/28/93 04/28/93 1206-027-12"-C-
EQUIPMENT 03-077-230 03-077-240A EQUIPMENT 03-077-330	C02.01 C02.02 C1.D: SHUT	PT PT TOOWN COL	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC	R #1 OUTLET 3PT-039-93 3PT-039-93 R #1 OUTLET 3PT-039-93	1206-003-8"-C-F 04/28/93 04/28/93 1206-027-12"-C- 04/28/93
EQUIPMENT 03-077-230 03-077-240A EQUIPMENT 03-077-330 03-077-350	C02.01 C02.02 C02.02 C02.01 C02.01	PT PT PT PT	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC CIRC	R #1 OUTLET 3PT-039-93 3PT-039-93 R #1 OUTLET 3PT-039-93 3PT-039-93	1206-003-8"-C-H 04/28/93 04/28/93 1206-027-12"-C- 04/28/93 04/28/93
EQUIPMENT 03-077-230 03-077-240A EQUIPMENT 03-077-330 03-077-350 03-077-351	C02.01 C02.02 C02.01 C02.01 C02.01	PT PT PT PT PT	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC CIRC LONG	R #1 OUTLET 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93	1206-003-8"-C-H 04/28/93 04/28/93 1206-027-12"-C- 04/28/93 04/28/93
EQUIPMENT 03-077-240A EQUIPMENT 03-077-330 03-077-350 03-077-351 03-077-360	C02.01 C02.02 C02.01 C02.01 C02.01 C02.02	PT PT PT PT PT PT	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC CIRC LONG CIRC	R #1 OUTLET 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93	1206-003-8"-C-F 04/28/93 04/28/93 1206-027-12"-C- 04/28/93 04/28/93 04/28/93
EQUIPMENT 03-077-230 03-077-240A EQUIPMENT 03-077-330 03-077-350 03-077-351 03-077-360 03-077-370A	C02.01 C02.02 C02.01 C02.01 C02.01 C02.02 C02.02	PT PT PT PT PT PT	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC CIRC LONG CIRC LONG	R #1 OUTLET 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93	1206-003-8"-C-F 04/28/93 04/28/93 1206-027-12"-C- 04/28/93 04/28/93 04/28/93 04/28/93
03-077-230 03-077-240A EQUIPMENT 03-077-330 03-077-350 03-077-351 03-077-360 03-077-370A 03-077-370B	C02.01 C02.02 C02.01 C02.01 C02.01 C02.02 C02.02 C02.02	PT PT PT PT PT PT PT PT	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC LONG CIRC LONG LONG LONG	R #1 OUTLET 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93	1206-003-8"-C-F 04/28/93 04/28/93 1206-027-12"-C- 04/28/93 04/28/93 04/28/93 04/28/93 04/28/93
EQUIPMENT 03-077-230 03-077-240A EQUIPMENT 03-077-330 03-077-350 03-077-351 03-077-360 03-077-370A 03-077-370B	C02.01 C02.02 C02.01 C02.01 C02.01 C02.02 C02.02	PT PT PT PT PT PT	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC CIRC LONG CIRC LONG	R #1 OUTLET 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93	1206-003-8"-C-F 04/28/93 04/28/93 1206-027-12"-C- 04/28/93 04/28/93 04/28/93 04/28/93
EQUIPMENT 03-077-230 03-077-240A EQUIPMENT 03-077-330 03-077-350 03-077-351 03-077-360 03-077-370A 03-077-370B 03-077-380	C02.01 C02.02 C02.01 C02.01 C02.01 C02.02 C02.02 C02.02 C02.02	PT	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC LONG CIRC LONG LONG LONG	R #1 OUTLET 3PT-039-93 3PT-039-93 R #1 OUTLET 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93	1206-003-8"-C-F 04/28/93 04/28/93 1206-027-12"-C- 04/28/93 04/28/93 04/28/93 04/28/93 04/28/93 04/28/93
EQUIPMENT 03-077-230 03-077-240A EQUIPMENT 03-077-330 03-077-350 03-077-351 03-077-360 03-077-370A 03-077-370B 03-077-380	C02.01 C02.02 C02.01 C02.01 C02.01 C02.02 C02.02 C02.02 C02.02	PT	LING HEAT EXCHANGE CIRC LONG LING HEAT EXCHANGE CIRC LONG CIRC LONG LONG LONG CIRC	R #1 OUTLET 3PT-039-93 3PT-039-93 R #1 OUTLET 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93 3PT-039-93	1206-003-8"-C-F 04/28/93 04/28/93 1206-027-12"-C- 04/28/93 04/28/93 04/28/93 04/28/93 04/28/93 04/28/93

03/01/94

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03-078-050 C02.01 PT CIRC 3PT-037-93 03-078-060 C02.01 PT CIRC 3PT-040-93 03-078-070A C02.02 PT LONG 3PT-040-93 03-078-070B C02.02 PT LONG 3PT-040-93	04/27/93 04/27/93 04/28/93 04/28/93 04/28/93
03-078-050 C02.01 PT CIRC 3PT-037-93 03-078-060 C02.01 PT CIRC 3PT-040-93 03-078-070A C02.02 PT LONG 3PT-040-93 03-078-070B C02.02 PT LONG 3PT-040-93 03-078-080 C02.01 PT CIRC 3PT-040-93	04/27/93 04/28/93 04/28/93
03-078-060 C02.01 PT CIRC 3PT-040-93 03-078-070A C02.02 PT LONG 3PT-040-93 03-078-070B C02.02 PT LONG 3PT-040-93 03-078-080 C02.01 PT CIRC 3PT-040-93	04/28/93 04/28/93 04/28/93
03-078-070A C02.02 PT LONG 3PT-040-93 03-078-070B C02.02 PT LONG 3PT-040-93 03-078-080 C02.01 PT CIRC 3PT-040-93	04/28/93 04/28/93
03-078-070B	04/28/93
03-078-080 C02.01 PT CIRC 3PT-040-93	
	04/28/93
EQUIPMENT LD: SHUTDOWN COOLING HEAT EXCHANGER #2 OUTLET 12	
	04/28/93
	206-028-1
C3-078-221B C02.02 PT LONG 3PT-040-93	04/28/93
03-C78-254 C02.02 PT LONG 3PT-029-93	04/26/93
03-078-260 C02.01 PT CIRC 3PT-029-93	04/26/93
03-078-270A C02.02 PT LONG 3PT-029-93	04/26/93
03-078-270B C02.02 PT LONG 3PT-029-93	04/26/93
03-078-280 C02.01 PT CIRC 3PT-029-93	04/26/93

Unit 3 Cycle 7 Examination Summary Class 2 - Pump & Valve Casing Welds

ISI Number

Item No.

Exam Method Weld Type Cal. Block

Report No.

Exam Date

CODE CLASS: 2 CODE CATEGORY: C-G

EQUIPMENT I.D: MAIN FEEDWATER TO STEAM GENERATOR #1

03-044-390A

C06.20 MT

393-07IMT-067

11/13/93

03-044-390B

C06.20 MT

393-07IMT-067

11/13/93

EQUIPMENT I.D: MAIN STEAM FROM S/G #1 OUTSIDE CONTAINMNT

03-052-250

C06.20 MT

393-07IMT-068

11/15/93

Unit 3 Cycle 7 Examination Summary Class 2 - Integral Attachments

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: CE1

EQUIPMENT I.D: PIPE SUPPORT

03-062-330	C02.05	PT	FILLET	3PT-082-93	05/20/93
03-062-370	C02.05	PT	FILLET	3PT-059-93	05/11/93
03-062-380	C02.05	PT	FILLET	3PT-059-93	05/11/93
03-062-390	C02.05	PT	FILLET	3PT-059-93	05/11/93
03-072-1390	C02.05	PT	FILLET	3PT-081-93	05/20/93
03-072-1690	C02.05	PT	FILLET	3PT-032-93	04/26/93
03-073-2220	C02.05	PT	FILLET	3PT-069-93	05/17/93
03-073-2280	C02.05	PT	FILLET	3PT-069-93	05/17/93
03-073-2340	C02.05	PT	FILLET	3PT-025-93	05/21/93
03-073-2680	C02.05	PT	FILLET	3PT-064-93	05/13/93
03-073-2690	C02.05	PT	FILLET	3PT-069-93	05/17/93
03-075-570	C02.05	PT	FILLET	3PT-033-93	04/26/93
03-076-925	C02.05	PT	FILLET	3PT-088-93	05/24/93
03-077-860	, C02.05	PT	FILLET	3PT-039-93	04/28/93
03-078-910	C02.05	PT	FILLET	3PT-050-93	05/07/93

Unit 3 Cycle 7 Examination Summary Component Standard Supports

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: CE2

EQUIPMENT I.D: PIPE SUPPORT

03-061-2240	C02.06	VT-3	392-07IVT-092	05/13/93
03-061-2240	C02.06	VT-4	393-07IVT-092	05/13/93
03-061-2310	C02.06	VT-3	393-07IVT-091	05/12/93
03-061-2310	C02.06	VT-4	393-07IVT-091	05/12/93
03-066-985-01	C02.06	VT-3	393-07IVT-089	04/26/93
03-066-985-02	C02.06	VT-3	393-07IVT-089	04/26/93
03-066-985-03	C02.06	VT-3	393-07IVT-089	04/26/93
03-072-1730	C02.06	VT-3	393-07IVT-088	05/17/93
03-074-560	C02.06	VT-3	393-07IVT-087	05/20/93
03-075-570	C02.06	VT-3	393-07IVT-086	04/27/93
)3-076-925	C02.06	VT-3	393-07IVT-085	05/20/93
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Unit 3 Cycle 7 Examination Summary **Linear Type Supports**

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 1 CODE CATEGORY: F-B

EQUIPMENT LD: PIPE SUPPORT

EQUIPMENT	LD; PH	PE SUPPORT		
03-017-650	F-3	VT-3	393-07IVT-070	11/11/93
03-017-730	F-3	VT-3	393-07IVT-071	11/12/93
03-022-180	F-3	VT-3	393-07IVT-022	10/23/93
03-022-220	F-3	VT-3	393-07IVT-004	10/15/93
03-022-230	F-3	VT-3	393-07IVT-021	10/23/93
03-022-240	F-3	VT-3	393-07IVT-013	10/22/93
03-022-260	F-3	VT-3	393-07IVT-014	10/22/93
03-023-185	F-3	VT-3	393-07IVT-056	11/04/93
03-023-200	F-3	VT-3	393-07IVT-043	11/01/93
03-023-210	F-3	VT-3	393-07IVT-028	10/26/93
03-023-215	F-3	VT-3	393-07IVT-028	10/26/93
03-023-220	F-3	VT-3	393-07IVT-057	11/04/93
03-023-250	F-3	VT-3	393-07IVT-060	11/04/93
03-024-570	F-3	VT-3	393-07IVT-030	10/27/93
03-044-480	F-3	VT-3	393-07IVT-029	10/27/93
03-044-500	F-3	VT-3	393-07IVT-050	11/03/93
03-046-780	F-3	VT-3	393-07IVT-610	10/22/93
03-047-440	F-3	VT-3	393-07IVT-037	10/28/93
03-047-450	F-3	VT-3	393-07IVT-038	10/28/93
03-047-470	F-3	VT-3	393-07IVT-035	10/28/93
03-047-490	F-3	VT-3	393-07IVT-036	10/28/93
03-049-430	F-3	VT-3	393-07IVT-040	10/30/93
03-052-750	F-3	VT-3	393-07IVT-047	11/03/93
03-052-760	F-3	VT-3	393-07IVT-049	11/03/93
03-053-740	F-3	VT-3	393-07IVT-045	11/01/93
03-053-791	F-3	VT-3	393-07IVT-046	11/01/93

Unit 3 Cycle 7 Examination Summary Component Standard Supports

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date CODE CLASS: | CODE CATEGORY: F-C EQUIPMENT I.D: PIPE SUPPORT 03-016-019 F-4 VT-4 393-07IVT-019 10/23/93 03-016-019 F-3 VT-3 393-07IVT-019 10/23/93 03-016-021 F-3 VT-3 393-07IVT-018 10/23/93 03-016-021 F-4 VT-4 393-07IVT-018 10/23/93 03-018-590 F-4 VT-4 10/16/93 393-07IVT-006 03-018-590 F-4 VT-3 393-07IVT-006 10/16/93 03-021-600 F-3 VT-3 393-07IVT-023 10/25/93 03-021-600 F-4 VT-4 393-07IVT-023 10/25/93 03-022-190 F-3 VT-3 393-07IVT-017 10/23/93 03-022-210 F-3 VT-3 393-07IVT-005 10/15/93 03-022-250 F-3 VT-3 393-07IVT-012 10/22/93 03-023-180 F-4 VT-4 393-07IVT-041 11/01/93 03-023-180 F-3 VT-3 393-07IVT-041 11/01/93 03-023-190 F-3 VT-3 393-07IVT-042 11/01/93 03-023-230 F-4 VI-3 393-07IVT-058 11/04/93 03-023-240 F-3 VT-3 393-07IVT-051 11/04/93 03-023-240 VT-4 F-4 393-07IVT-051 11/04/93 03-024-550 F-4 VT-4 393-07IVT-016 10/22/93 03-024-550 F-3 VT-3 393-07IVT-016 10/22/93 03-024-560 F-3 VT-3 393-07IVT-015 10/22/93 03-024-560 F-4 VT-4 393-07IVT-015 10/22/93 03-026-610 F-4 VT-4 393-07IVT-054 11/04/93 03-026-610 F-3 VT-3 393-07IVT-054 11/04/93 03-026-620 F-3 VT-3 393-07IVT-055 11/04/93 EQUIPMENT I.D: 03-034-100 F-4 VT-3 393-07IVT-031 10/27/93

03-034-100

F-4

VT-4

393-07IVT-031

10/27/93

Unit 3 Cycle 7 Examination Summary Component Standard Supports

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date

CODE CLASS: 2 CODE CATEGORY: F-C

EQUIPMENT I.D: STEAM GENERATOR #2 SECONDARY SIDE \$3-1301-ME088

03-043-046	F-4	VT-3	393-07IVT-075	11/17/93
03-043-046	F-4	VT-4	393-07IVT-074	11/13/93
03-043-047	F-4	VT-4	393-07IVT-061	11/06/93
03-043-047	F-4	VT-3	393-07IVT-061	11/06/93

EQUIPMENT LD: PIPE SUPPORT

F-4	VT-4	393-07IVT-032	10/27/93
F-4	VT-3	393-07IVT-032	10/27/93
F-4	VT-4	393-07IVT-048	10/27/93
F-3	VT-3	393-07IVT-048	10/27/93
F-3	VT-3	393-07IVT-033	10/27/93
F-4	VT-4	393-07IVT-033	10/27/93
F-3	VT-3	393-07IVT-020	10/23/93
F-4	VT-4	393-07IVT-020	10/23/93
F-3	VT-3	393-07IVT-011	10/22/93
F-4	VI-3	393-07IVT-073	11/13/93
F-4	VT-4	393-07IVT-073	11/13/93
F-4	VT-3	393-07IVT-072	11/13/93
F-4	VT-4	393-07IVT-072	11/13/93
F-4	VT-4	393-07IVT-034	10/28/93
F-3	VT-3	393-07IVT-034	10/28/93
F-3	VT-3	393-07IVT-039	10/30/93
F-4	VT-4	393-07IVT-039	10/30/93
F-4	VT-4	393-07IVT-053	11/06/93
F-3	VT-3	393-07IVT-053	11/06/93
F-3	VT-3	393-07IVT-052	11/06/93
F-4	VT-4	393-07IVT-052	11/06/93
	F-4 F-3 F-3 F-4 F-3 F-4 F-3 F-4 F-4 F-4 F-4 F-4 F-4 F-3 F-4 F-4 F-3 F-3 F-4 F-7 F-8	F-4 VT-4 F-3 VT-3 F-4 VT-4 F-3 VT-3 F-4 VT-4 F-3 VT-3 F-4 VT-4 F-4 VT-4 F-4 VT-4 F-4 VT-4 F-3 VT-3 F-4 VT-4 F-4 VT-4 F-4 VT-4 F-4 VT-4 F-7 VT-7 F-8 VT-8 F-9 VT-9	F-4 VT-3 393-07IVT-032 F-4 VT-4 393-07IVT-048 F-3 VT-3 393-07IVT-048 F-3 VT-3 393-07IVT-033 F-4 VT-4 393-07IVT-033 F-3 VT-3 393-07IVT-020 F-4 VT-4 393-07IVT-020 F-3 VT-3 393-07IVT-070 F-4 VT-4 393-07IVT-073 F-4 VT-4 393-07IVT-073 F-4 VT-4 393-07IVT-072 F-4 VT-4 393-07IVT-034 F-3 VT-3 393-07IVT-039 F-4 VT-4 393-07IVT-039 F-4 VT-4 393-07IVT-053 F-3 VT-3 393-07IVT-053 F-3 VT-3 393-07IVT-053 F-3 VT-3 393-07IVT-052

Unit 3 Cycle 7 Examination Summary Reactor Coolant Pump Flywheel Augmented Exams: RG1.14

ISI Number Item No. Exam Method Weld Type Cal. Block Report No. Exam Date CODE CLASS: 1 CODE CATEGORY:RG1.14 EQUIPMENT I.D: REACTOR COOLANT PUMP 1B S3-1201-MP-003 03-035-011 RG1.14 UT 393-07IUT-037 11/12/93 03-035-012 RGI.14 UT 393-07IUT-037 11/12/93 03-035-012 RG1.14 MT 393-07IMT-006 10/22/93 EQUIPMENT I.D: REACTOR COOLANT PUMP 1A S3-1201-MP-001 03-036-011 RG1.14 UT 393-07IUT-038 11/13/93 03-036-012 RG1.14 UT 393-07IUT-038 11/13/93 03-036-012 RG1.14 MT 393-07IMT-007 10/22/93 EQUIPMENT I.D: REACTOR COOLANT PUMP 2B S3-1201-MP-002 03-037-011 RG1.14 UT 393-07IUT-039 11/11/93 03-037-012 RG1.14 MT 393-07IMT-008 10/22/93 03-037-012 RG1.14 UT 393-07IUT-039 11/11/93 EQUIPMENT I.D: REACTOR COOLANT PUMP 2A S3-1201-MP-004 03-038-011 RGL14 UT 393-07IUT-040 11/12/93 03-038-012 RG1.14 MT 393-07IMT-020 10/26/93 03-038-012 RG1.14 UT 393-07IUT-040 11/12/93

ATTACHMENT 10.0

LIST OF PRESSURE TESTS

SYSTEM PRESSURE TESTS

SYSTEM	PLANT LOCATION	TEST PRESSURE	TEST TEMPERATURE	EXAM DATE
A. SYSTEM LEAKAGE TESTS: REACTOR COOLANT 1201	RCS PIPING INSIDE CONTAINMENT	2254 psig	478°F	12/07/93
B. SYSTEM FUNCTIONAL TES LOW PRESSURE SAFETY INJECTION 1204	TS: PUMP NO. 1/MP015	165 psig	AMB ¹	10/25/93
LOW PRESSURE SAFETY INJECTION 1204	PUMP NO. 2/MP016	180 psig	AMB	11/23/93
HIGH PRESSURE SAFETY INJECTION 1204	PUMP NO. 1/MP017	1010 psig	AMB	9/30/93
HIGH PRESSURE SAFETY INJECTION 1204	PUMP NO. 2/MP018	1650 psig	AMB	9/30/93
HIGH PRESSURE SAFETY INJECTION 1204	PUMP NO. 3/MP019	1550 psig	AMB	10/1/93
CONTAINMENT SPRAY 1206	FUMP NO. 1/MP012	247 psig	AMB	12/4/93
CONTAINMENT SPRAY 1206	PUMP NO. 2/MP013	247 psig	AMB	10/9/93
C COUPERA INTERNACION PROPE				
C. SYSTEM INSERVICE TESTS CHEMICAL AND VOLUME CONTROL 1208	INSIDE CONTAINMENT OUTSIDE CONTAINMENT	2250 psig - RCS ² 2250 psig - RCS	≥545 °F - RCS ≥545 °F - RCS	10/10/93 10/893
MAIN STEAM [30]	INSIDE CONTAINMENT STEAM GEN. ME088/ME089	920 paig	537°F	10/10/93
MAIN STEAM 1301	OUTSIDE CONTAINMENT STEAM GEN. ME088/ME089	920 psig	537°F	10/5/93
MAIN FEEDWATER 1305	INSIDE CONTAINMENT PENETRATIONS 28 AND 29	1045 rsig	345°F	10/10/93
MAIN FEEDWATER 1305	OUTSIDE CONTAINMENT 2HV4052 AND 2HV4048	1045 psig	345°F	10/9/93
AUXILIARY FEEDWATER 1305	CONTAINMENT ISOLATION VALVES 2HV4715 AND 2HV4730	1385 psig	544°F	12/7/93

D. HYDROSTATIC TESTS - NONE PER CODE CASE N-498

Ambient or Room Temperature

Reactor Coolant System

ATTACHMENT 11.0

STEAM GENERATOR EXAMINATIONS

Southern California Edison Company

23 PARKER STREET IRVINE, CALIFORNIA 92718

WALTER C. MARSH

December 2, 1993

TELEPHONE (714) 454-4403

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

Subject: Docket No. 50-362

Special Report, Inservice Inspection of Steam Generator Tubes San Onofre Nuclear Generating Station, Unit 3

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

B. Letter from W. C. Marsh (SCE) to Document Control Desk (USNRC) dated November 8, 1993.

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

Eddy current inspection of the steam generator tubing was completed on November 18, 1993. A total of 13,594 tubes (72.6% of the tubes in service) in two steam generators were inspected full length and 59 tubes were removed from service by mechanical plugging. This inspection significantly exceeded the amount of tubing required to be inspected per Surveillance Requirements 4.4.4.0 through 4.4.4.2, including all prospective C-2 expansions [i.e., a 3% sample plus a 6% (2S) and a 12% (4S) expansion in each steam generator].

The planned inspection programs for both steam generators were consistent with industry recommendations in the "PWR Steam Generator Examination Guidelines" (Reference A). The planned programs were previously described in Reference B.

The inspection programs for both steam generators were expanded. The expansions included local bounding of tubes to be plugged, local bounding of all tubes indicating the presence of foreign material, and inspection of all tubes within 5 tubes of the periphery of the tube bundle due to the potential for presence of foreign material.

In Steam Generator E-088, 7020 tubes were inspected full length. Two tubes were found to be defective due to a 54% throughwall indication and a 51% throughwall indication, respectively, at vertical strap support locations. Two tubes were found to be defective due to a 100% throughwall indication and a 44% throughwall indication, respectively, just above the secondary face of the tubesheet on the outlet end of the tubes. The indications in these two tubes resulted from the presence of foreign material. Also, one tube was found to be defective due to a 74% throughwall indication at 11.75 inches above the secondary face of the tubesheet on the outlet end of the tube. This indication initiated on the outer tube wall. Inspection of this indication by the motorized rotating pancake coil (MRPC) probe revealed a volumetric indication (i.e., no specific axial or circumferential aspect). All five of the defective tubes described in this paragraph were plugged.

Also in Steam Generator E-088, the following number of tubes were preventively plugged for the indicated reason. Seventeen tubes were preventively plugged due to the presence of foreign material. Eight tubes were preventively plugged due to degradation at a batwing support. Six tubes were preventively plugged due to degradation at a vertical strap support. Two tubes were preventively plugged due to non-quantifiable indications at locations not associated with supports (i.e. in freespan tubing). These two non-quantifiable indications were volumetric. Two tubes were preventively plugged due to quantified indications (23% throughwall and 27% throughwall, respectively) at locations not associated with supports. These two quantified indications were volumetric (i.e., no specific axial or circumferential aspect). One tube was preventively plugged due to wear induced degradation at the lowest eggcrate support on the inlet end of the tube. One tube was preventively plugged due to tie-rod denting.

In Steam Generator E-089, 6574 tubes were inspected. The following number of tubes were preventively plugged for the indicated reason. Seven tubes were preventively plugged due to tie-rod denting. Four tubes were preventively plugged due to the presence of foreign material. Three tubes were preventively plugged due to degradation at a vertical strap support. One tube was preventively plugged due to a non-quantifiable/single volumetric indication at a location not associated with a support (i.e., in freespan tubing). One tube was preventively plugged due to a single volumetric indication at an eggcrate support on the outlet end of the tube. One tube was preventively plugged due to wear induced degradation at an eggcrate support on the outlet end of the tube.

As required by Surveillance Requirement 4.4.4.5(b), complete results of the recently completed inservice inspection will be submitted to the Commission by November 18, 1994.

If you require any additional information, please so advise.

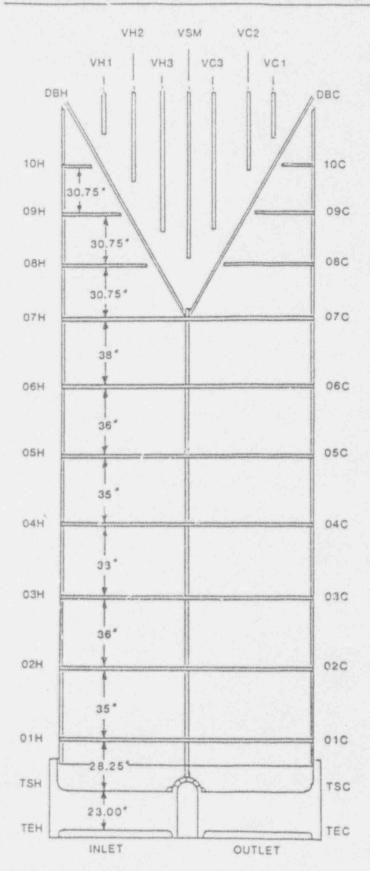
Sincerely,

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Walter C. Marsh Manager of Nuclear Regulatory Affairs

AM:jld\wp51\sgisi\u3c715da.n93

CC: B. H. Faulkenberry, Regional Administrator, NRC Region V
M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3
NRC Resident Inspector Office, San Onofre Units 1, 2 & 3
Institute of Nuclear Power Operations (INPO)



CUMULATIVE REPORT 11/93, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88 JUTAGE DATA SET : CURRENT

SELECTION VARIABLES: Percent

PAGE: 1 OF 4 DATE: 11/29/93

TIME: 14:03:20

	EXAM EXTENT								CURRENT						
OW	COL	HEAT#	LEG	PROGRAM		EXP	CAL	PROBE		LOCATION	VOLTS			ş	CH
43	5	-		TEC-TEH	mpo_mpu	-	00000	580UL	040-	0.09	0.52		0	<20	D
06			C		TEC-TSH			SBOUL		0.82	8.27		0		
00	20		C		TEC-TSH		1	580UL			1.15		0		
02	30		C		TEC-TEH			580UL		0.80	0.77		0		7.
04			C		TEC-TEH			580UL		0.75	0.97	5 - 1	0		2.11
0.4	20		7		TEC-TEH			580UL		0.78	1.09		0		
			ć		TEC-TEH			580UL			0.42			<20	3.00
07	31		c		TEC-TEH			580UL		0.88	0.47			<20	8:00
76	34		C	TEC-TEH				580UL			0.56			<20	34.0
14			C		TEC-TEH			580UL			0.58			<20	5110
12	38		C		TEC-TEH			580UL		0.29	0.60			<20	
12	40		C		TEC-TEH			580UL		19.46	0.63		140		3
															31
27 J 85 J			C		TEC-TEH			580UL		23.82	0.93		153		2
					TEC-TEH						0.90	5 / 2			
71	47		C	TEC-TEH				580UL			0.97		0		
76	48		C	TEC-TEH				580UL			0.56	1 2		<20	3
0.4			C		TEC-TEH			580UL			0.87		0	-	
94			C	TEC-TEH				580UL			0.93		0		*
12	48		C	TEC-TEH				580UL			2.98		. 0		
				TEC-TEH				580UL			1.34		0		5111
			C	TEC-TEH				580UL			0.82		0		3.00
13			C	TEC-TEH				580UL			0.41			<20	
	51			TEC-TEH				580UL			0.63		0		3
34	52			TEC-TEH				580UL)		1.55	1.51		0	70.70	
12	5.8			TEC-TEH				580UL		1.21	0.68		0		
				TEC-TEH				5BOUL		1.21	0.54			<20	
07	59			TEC-TEH				580UL		0.88	0.91		0		
				TEC-TEH				560UL			1.17		. 0		
М				TEC-TEH				580UL			6.15		C	- 100	2.70
39	61		C	TEC-TEH				580UL			2.39		0		
40	62			TEC-TEH		4		580UL			0.50			420	8.77
81				TEC-TEH				580UL		0.91	0.94		0	1	
41				TEC-TEH				580UL		1.68	0.40			+20	
18	66			TEC-TEH				580UL		3.33	0.95		154		
42	66			TEC-TEH				580UL			0.48			<20	
82	68			TEC-TEH				580UL			0.58			<20	
10	68			TEC-TEH				SBOUL			0.73			<20	
30	68			TEC-TEH				580UL			0.96			23	
12	68			TEC-TEH				580UL			1.94			35	3
			C	TEC-TEH	TEC-TEH		00035	580UL	DBC+	1.59	1.04		0	25	P
43	69		C	TEC-TEH	TEC-TEH		00029	580UL	VSM-	0.96	0.69		0	<20	P
81	69		C	TEC-TEH	TEC-TEH		00035	580UL	VC3+	0.73	0.90		0	22	P
43	69		C	TEC-TEH	TEC-TEH		00035	580UL	DBC+	1.43	2.24	1	- 0	38	P
04	70	11	C	TEC-TEH	TEC-TEH		00036	580UL	VC3-	0.98	0.64		0	<20	P
77]	71		C	TEC-TEH	TEC-TEH		00036	580UL	VH3+	0.67	0.99	1	0	25	P

CUMULATIVE REPORT 11/93, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

TEAM GENERATOR : 88 JUTAGE DATA SET : CURRENT PAGE: 2 OF 4 DATE: 11/29/93 TIME: 14:03:20 SELECTION VARIABLES: Percent

				EXAM :	EXTENT							CURI	RENT		
OW	COL	HEAT#	LEG		ACTUAL	EXP	CAL	PROBE		LOCATION	VOLTS	MIL	DEG	*	CH
4.4	72		C	TEC-TEH	TEC-TEH	-	00030	580UL	VSM-	0.91	0.54	PRESENTE	0	<20	P
44					TEC-TEH			580UL		1.06	0.46			<20	
37					TEC-TEH			580UL		0.88	1.21	7	0		
39					TEC-TEH			580UL		0.91	0.77		0		5
81			C		TEC-TEH			580UL		0.86	0.52		0	<20	
38			C		TEC-TEH			580UL			0.49			<20	
38					TEC-TEH			580UL		1.04	0.82		0		3
39			C		TEC-TEH			580UL		1.94	0.36		0	<20	P
			C		TEC-TEH			580UL			0.51		0	<20	P
41	75		C		TEC-TEH			580UL			0.38		0	<20	P
			C		TEC-TEH			580UL			0.45		0	<20	P
			C		TEC-TEH			580UL			1.19		0	28	P
75	75		C		TEC-TEH			580UL			0.49		0	20	P
42	76		C		TEC-TEH		00030	580UL	DBH-	1.61	0.29		0	<20	P
42	76		C		TEC-TEH		00037	580UL	VH1-	0.84	0.97		0	30	P
46	76		C		TEC-TEH		00037	580UL	DBH+	1.23	0.48		0	20	P
50	78		C		TEC-TEH		00030	580UL	DBC-	1.46	0.74		0	20	P
46	78		C	TEC-TEH	TEC-TEH	4	00037	580UL	DBC+	1.33	0.89		0	29	P
17	79		C	TEC-TEH	TEC-TEH		00030	580UL	VSM+	0.86	0.72		0	<20	P
5	79		C	TEC-TEH	TEC-TEH	4	00037	580UL	DBC+	1.48	1.02		0	31	P
04	80		C	TEC-TEH	TEC-TEH		00038	580UL	07H+	24.65	0.87		142	27	1
50	82		C	TEC-TEH	TEC-TEH	15.0	00077	580UL	DBH-	2.16	0.42		0	<20	P
46	8.2		C	TEC-TEH	TEC-TEH		00001	580UL	DBC+	1.55	0.88		0	24	P
4	84		C	TEC-TEH	TEC-TEH		00038	580UL	DBH+	1.94	0.77		0	20	P
51	85		0.	TEC-TEH	TEC-TEH		00082	580UL	DBC-	1.50	0.22		0	<20	P
			C	TEC-TEH	TEC-TEH		00082	580UL	03C+	18.63	0.86		161	<20	
13	85		C	TEC-TEH	TEC-TEH		00001	SBUUL	TSC+	1.42	23.32	1	74	8.2	1
4	86		C	TEC-TEH	TEC-TEH		00001	580UL	TSC+	2.12	3.36		129	41	1
			C	TEC-TEH	TEC-TEH		00001	580UL	TSC+	0.96	0.98		158	<20	1
7	87		C	TEC-TEH	TEC-TEH		00078	580UL	VSM-	0.61	0.37		0	<20	P
			C	TEC-TEH	TEC-TEH		00078	580UL	DBC+	1.95	0.58	1	0	<20	P
9			C	TEC-TEH	TEC-TEH		00078	580UL	DBH-	1.73	0.40		0	<20	P
5	87				TEC-TEH		00001	580UL	TSC+	2.12	2.72	1	126	44	
					TEC-TEH		00001	580UL	TSC+	0.67	0.68		156	<20	
0	88				TEC-TEH					2.25	0.37		0		
8	8.8				TE - TEH		00057	580UL	VH1-	1.19	0.54			<20	
	8.8				TEC-TEH		00001	580UL	TSC+	1.51	2.00	1	130	40	
	8.8				TEC-TEH		00001	580UL	TSC+	1.42	0.35		158		
	89				TEC-TEH					1.82	2.58		0		
5	89				TEC-TEH					1.24	1.62	0	153		72
					TEC-TEH			580UL			1.75		166		
7	8.9				TEC-TEH					1.38	0.96	1	1 0		
					TEC-TEH					1.22	1.10			26	
38	90				TEC-TEH		00057	580UL	VH1-	0.67	1.28			28	7.
			C	TEC-TEH	TEC-TEH		00057	580UL	01C+	12.71	2.24	1	142	22	1

CUMULATIVE REPORT 11/93, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

TEAM GENERATOR : 88
JUTAGE DATA SET : CURRENT SELECTION VARIABLES: Percent

PAGE: 3 OF 4 DATE: 11/29/93

TIME: 14:03:20

				EXAM	AM EXTENT						CURRENT				
OW	COL	HEAT#	LEG	PROGRAM		EXP	CAL	PROBE		LOCATION	VOLTS			è	CF
46	92	77-11	C	TEC-TEH	TEC-TEH	4	00057	580UL	10C+	0.86	0.23		0	<20	P
51	93		C		TEC-TEH			580UL			0.45			<20	
75	93		C		TEC-TEH			580UL			0.44	i - i-		<20	500
77	93		C		TEC-TEH			SBOUL			0.94		0	23	
79	93		C		TEC-TEH			580UL			0.56		0	<20	
			C		TEC-TEH			580UL			0.98		oi	24	b. zv.
			C		TEC-TEH			SSOUL			0.81		0.1	21	9/11
36	94		C		TEC-TEH			580UL		0.91	1.17		0		
14	96		C		TEC-TEH			580UL			0.62		-	<20	
82	98		C		TEC-TEH			580UL		0.77	0.70			<20	200
07	99		C		TEC-TEH			580UL			0.81		0	21	P. 17
			C		TEC-TEH			580UL			1 1.49		0	30	2
13	101		C		TEC-TEH			580UL			0.51			<20	2-1
	101		C		TEC-TEH			580UL			0.81		0	20	
			C		TEC-TEH			580UL		0.79	1.00		0		
15	103		C		TEC-TEH			580UL			0.49		100	<20	
			C		TEC-TEH			580UL		0.77	0.47			<20	51710
2	104		C		TEC-TEH			580UL			1.46		0		2.
					TEC-TEH			580UL		0.20	1.47		01		
			C		TEC-TEH			580UL			1.50		0	32	
			C		TEC-TEH			580UL			0.81		0	22	
4	104				TEC-TEH	4		580UL		0.90	0.67		-	<20	
			C		TEC-TEH			SBOUL		0.71	0.37			<20	
2	104				TEC-TEH			580UL		1.99	0.52			<20	
	105				TEC-TEH			580UL			0.99			-20	5
	105				TEC-TEH			580UL		0.57	1.73		0		
	105				TEC-TEH			580UL		0.73	0.51			<20	t ou
	106				TEC-TEH			580UL			0.35			<20	5
	106				TEC-TEH	d		580UL		2.17	1.05		0	24	
	107				TEC-TEH			580UL		0.78	0.79			<20	
	108				TEC-TEH			580UL		0.91	0.27			<20	
	109				TEC-TEH			580UL			0.72		0		
					TEC-TEH			SBOUL		0.81					
5	109				TEC-TEH			580UL			0.52			<20	
	109				TEC-TEH			580UL			0.39			<20	
					TEC-TEH			580UL						<20	
3	109	4H 1			TEC-TEH			580UL			0.42			<20	
	110				TEC-TEH			SEOUL							
	113				TEC-TEH			580UL			0.41		0	<20 26	
	119	-110			TEC-TEH			580UL					0		
	120				TEC-TEH			580UL			0.96				
					TEC-TEH			580UL			0.62			<20	
3	121				TEC-TEH			580UL			2.51	2 - 3 -	0		2
	123				TEC-TEH			580UL					87		
	124				TEC-TEH						0.82			<20	
147			-	A DO TON	+ DU - LEFT		00000	580UL	A1124	1.43	0.43		0	<20	F

CUMULATIVE REPORT 11/93, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

"EAM GENERATOR : 88

SELECTION VARIABLES: Percent

PAGE: 4 OF 4 DATE: 11/29/93

TIME: 14:03:20

				EXAM !	EXTENT			111-72				CURRENT			
.OW	COL	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE		LOCATION	VOLTS	MIL	DEG	*	CH
78	124		C	TEC-TEH	TEC-TEH	-	00065	580UL	VC3+	0.87	0.44	-	0	<20	P
81	125		C	TEC-TEH	TEC-TEH		00065	580UL	VH3+	0.90	0.85			<20	
			C	TEC-TEH	TEC-TEH		00065	580UL	VC3+	0.96	0.65			<20	
80	126		C	TEC-TEH	TEC-TEH		00065	580UL	VH3+	0.63	1.30		0		
			C	TEC-TEH	TEC-TEH		00065	580UL	VC3+	0.69	0.60		0	<20	300
76	128		C	TEC-TEH	TEC-TEH		00065	580UL	VC3-	0.90	1.38		0	27	P
62	128		C	TEC-TEH	TEC-TEH		00065	580UL	VH3-	0.87	0.80		0	<20	1
3	129		C	TEC-07H	TEC-07H		00068	560SF	03C+	21.80	1.11		148		ĺ
41	129		C	TEC-TEH	TEC-TEH		00055	580UL	DBH+	1.36	0.57		0	<20	P
83	129		C	TEC-TEH	TEC-TEH		00065	580UL	VH2+	0.62	0.73	- 1	0	<20	P
27	129		C	TEC-TEH	TEC-TEH		00065	580UL	TSC+	7.33	2.10		148	23	
0.8	130		C	TEC-TEH	TEC-TEH		00066	580UL	VH3-	0.89	0.86		0	<20	P
			C	TEC-TEH	TEC-TEH		00066	580UL	7.C3-	0.72	0.76		0	<20	P
12	132		C	TEC-TEH	TEC-TEH		00066	580UL	VC3+	0.58	0.55		0	<20	P
06	134		C	TEC-TEH	TEC-TEH		00066	SBOUL	VH2-	0.99	0.46		0	<20	P
72	140		C	TEC-TEH	TEC-TEH		00045	580UL	06H+	15.56	0.66		155	<20	
80	140		C	TEC-TEH	TEC-TSH		00045	580UL	VC3-	1.09	0.47		0	<20	P
			C	TEC-TEH	TEC-TEH		00066	580UL	VC3-	1.06	0.58		0	<20	P
			C	TEC-TEH	TEC-TSH		00045	580UL	VC3+	0.59	0.36		0	<20	P
			C	TEC-TEH	TEC-TEH		00066	580UL	VC3+	0.70	0.49		0	<20	p
06	144		C	TEC-TEH	TEC-TEH		00046	580UL	VH2-	1.01	0.90		0	26	P
			C	TEC-TEH	TEC-TEH		00046	580UL	VH3+	0.84	0.58		0	<20	P
94	146		C	TEC-TEH	TEC-TEH	4	00047	580UL	VH3-	0.84	0.45	- 1	0	<20	p
72	148		0	TEC-TEH	TEC-TEH		00047	580UL	VC3+	0.93	0.30		0	<20	P
89	151		C	TEC-TEH	TEC-TEH	4	00047	580UL	VC3 -	0.79	0.55		0	<20	P
77	157		C	TEC-TEH	TEC-TEH	4	00048	580UL	08C-	1.29	0.35	1		<20	
74	160		C	TEC-TEH	TEC-TEH		00044	580UL	08C-	0.37	0.87		0		
79	161		C	TEC-TEH	TEC-TEH	4	00044	SEOUL	DBH+	1.85	0.29		0	<20	P
10	166		C	TEC-TEH	TEC-TEH	4	00049	580UL	01H+	0.23	2.90		0	43	
17	169		C	TEC-TEH	TEC-TEH		00083	580UL	DBH+	2.36	4.45		9	23	
			C	TEC-TEH	TEC-TEH		00081	580UL	DBH+	2.89	3.57	1111	10	25	

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 125
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 166

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA: Percent: 0 to 100%

REPORT OPTIONS:

only examination results matching criteria are included

CUMULATIVE REPORT 11/93, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 89 OUTAGE DATA SET : CURRENT

PAGE: 1 OF 2 DATE: 12/17/93

ELECTION VARIABLES: Percent TIME: 10:29:50

					EXTENT							CURI	RENT		T STATE OF THE STATE OF
ROW	COL	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE		LOCATION	VOLTS				CH
30	4	*************	C	TEC-TEH	TEC-TEH		00006	580UL	03C+	34.28	0.91	entropias.	146	25	-
42	- 6		C		TEC-TEH			580UL			0.60	-	0		P
61	9		C		TEC-TEH			SBOUL		Sec. 10. 10. 100 - 10. 100	0.51		154		
50	10		C	TEC-TEH	TEC-TEH			580UL			0.73		0		1
51	11		C	TEC-TEH	TEC-TEH	4		580UL		1.14	0.26		0	100	100
01	43		C	TEC-TEH	TEC-TEH			580UL		0.99	0.22		0		
13	53		C	TEC-TEH	TEC-TEH			580UL		25.12	0.56		160		
77	59		C	TEC-TEH	TEC-TEH			580UL		0.80	0.68		0		P
			C	TEC-TEH	TEC-TEH			SSOUL		0.74	0.53		0		
41	63		C	TEC-TEH	TEC-TEH			580UL		2.22	0.40		0		
50	64		C	TEC-08H	TEC-TEH			580UL		0.15	0.89		0	26	P
29	65		C	TEC-TEH	TEC-TEH			580UL		1.50	0.41		0	<20	157
			C	TEC-TEH	TEC-TEH			580UL	VC3+	8.07	1.61		157	<20	
00	78		C	TEC-TEH	TEC-TEH		00031	SSOUL	08H-	0.54	0.76		0	25	P
08	80		C	TEC-TEH	TEC-TEH		00031	580UL	07H+	23.34	0.75		149	22	-
56	86		C	TEC-TEH	TEC-TEH		00072	580UL		2.17	0.23		0	<20	p
38	86		C	TEC-TEH	TEC-TEH	4		SBOUL		0.92	0.30		0	<20	
			C	TEC-TEH	TEC-TEH	4				1.08	0.32		0	<20	1
			C	TEC-TEH	TEC-TEH	4			VH2+	0.70	0.28		0		
32	94		C	TEC-TEH	TEC-TEH				VH2-	0.89	0.57		0	27	P
50	98		C	TEC-TEH	TEC-TEH				DBH-	1.71	0.49		0	<20	1.7
12	98	1	C	TEC-TEH	TEC-TEH	4		580UL	08C+	0.96	0.80		0	32	P
38	102		C	TEC-TEH	TEC-TEH				DBC-	1.22	0.34		0		
36	102		C		TEC-TEH	4			08C+	25.95	0.92		159		-
55	103		C	TEC-TEH	The second of the second of			580UL		1.21	0.45			<20	p
3.4	104		C	TEC-TEH	TSC-TEH			SBOUL		1.71	0.33		0		
			C	TEC-TEH	A STATE OF THE PARTY OF THE PAR		00059		DBC+	1.74	0.34				
16	104		C	TEC-TEH	The state of the s		00048		VSM-	1.02	0.26		0		P
14	104			TEC-TEH			00038		DBC-	0.51	0.41		0		1.7
5.	105			TEC-TEH			00048		VSH+	13.10	0.86		159		1
17	105			TEC-TEH			00048		VSM+	0.71	0.49		0	<20	73
11	105			TEC-TEH			00048		TSH+	0.80	0.52		146	25	E
16	114				TEC-TEH		00040		VC1+	2.14	0.92		148	200	
	4				TEC-TEH			580UL		1.46	0.54	4		<20	13
10	114				TEC-TEH			SBOUL		2.11	0.91			25	
	115			TEC-TEH				580UL		1.84	0.57			23	
3	117				TEC-TEH			580UL		10.81	0.50			<20	
8	118				TEC-TEH			SBOUL		1.14	1.25			35	
0	128			TEC-TEH				580UL		0.78	0.60			<20	
	131			TEC-TEH				580UL		0.66	0.43			<20	
				TEC-TEH				580UL		0.72	1.07			30	
6	138			TEC-TEH				580UL		0.30	0.26		10.1	<20	
6	138	1100		TEC-TEH				580UL		0.90	0.44			<20	
9	139			TEC-TEH				580UL		1.21	0.53				
7	145	1		TEC-TEH				580UL		1.03				<20	
											0.41		0	<20	T,

CUMULATIVE REPORT 11/93, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 89 OUTAGE DATA SET : CURRENT

PAGE: 2 OF 2 DATE: 12/17/93

ELECTION VARIABLES: Percent

TIME: 10:29:50

				EXAM 1	EXTENT							CURI	RENT		
ROW	COL	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE		LOCATION	VOLTS	MIL	DEG		CH
67	145	***************************************	C	TEC-TEH	TEC-TEH	400000000	00054	580UL	VC3+	1.46	0.60	Windowskie	0	23	P
76	146		C	TEC-TEH	TEC-TEH		00054	580UL	VH3+	0.86	0.43		0	<20	P :
104	146		C	TEC-TEH	TEC-TEH		00054	580UL	VH2-	0.60	1.11		0	31	P :
			C	TEC-TEH	TEC-TEH		00054	580UL	VH3-	0.87	0.57		0	21	P :
7.3	147		C	TEC-TEH	TEC-TEH		00054	580UL	VH3+	0.86	0.40		0	21	P :
			C	TEC-TEH	TEC-TEH		00054	580UL	VSM-	0.86	0.38		0	<20	P
79	153		C	TEC-TEH	TEC-TEH		00055	580UL	VH3-	0.99	0.44		0	<20	P
			C	TEC-TEH	TEC-TEH		00055	580UL	VC3+	0.69	0.76		0	22	P
81	153		C	TEC-TEH	TEC-TEH		00055	580UL	VC3-	1.07	0.23		0	<20	P
77	155		C	TEC-TEH	TEC-TEH		00056	580UL	VH3+	0.88	0.40		0	<20	P

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 45 NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 5.5

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA: Percent: 0 to 100%

REPORT OPTIONS:

only examination results matching criteria are included

ATTACHMENT 12.0

FORM NIS-2 OWNER'S REPORT FOR REPAIRS AND REPLACEMENTS

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

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: MO: 89052887

Sheet 1 of 1

San Onofre Nuclear Generating Station

RS: 026-90 P&ID:

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

40111CSO3 S3-1212-9

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Nuclear Plant Sampling

Authorization No: Expiration Date:

N/A N/A

(a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
% Globe Valve	WKM	70-117773	1202	3HV0514	1977	+ > +	Yes
14" Pipe Plug	ASP Steel	Ht. Code EYL	N/A	RSO 0257-90 5A-182, TP 316	N/A	Replacement	No

Description of Work:

The packing leak-off plug was replaced and sealwelded in accordance with the requirements of weld record WR3-90-047.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 22 psig Temp: N/A

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/4 in. x 11 in., (2)

information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: Comfailel

Supervising ASME Codes Engineer Date: 2-14, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood Mas achusetts have inspected the components described in this Owner's Report during the period 10/14/93 to 2/15/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date #16, 15, 1994

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

A ... apaired by the Provisions ... the ASME Code Section XI

Southern California Edison Compv Owner.

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit:

MO: R

89061826 053-90, Rev 2

San Onofre Nuclear Generating Station

P.O. Box 128, San Clement, CA 92674-0128

N-5: S3-1204-34

40112ASO3 (E-3) P&ID:

Work Performed by:

Plant:

Southern California Edison Comp. ny

Type Code Symbol Stamp:

N/A

Identification of System:

Safety Injection

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S'73 Addenda (Valve), (a) 1974 Edition, S*/4 Addenda (Pipe Plug), Code Cases: 1516-1

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
4" Globe Check Valve	Anchor Darling	2N801	N/A	S31204MU016	1977	7.5	Yes
Disc	Anchor Darling	SN 2 Ht. 32477	N/A	RSO 0764-92 SA-479, Tp 316	N/A	Replacement	Yes
1/4" Pipe Plug	Crane-Aloyco	Ht. Code OM	N/A	RSO 3124-92 SA-182, F316	N/A	Replacement	No

Description of Work:

The inspection of the valve body after disassembly revealed circumferential scoring from contact made with the valve disc. The valve body was hand-stoned to remove the high spots in accordance with NCR 93020034. The valve disc was replaced with a new one piece model in accordance with approved drawings. In addition, the valve underwent a Chesterton packing modification which required the replacement and seal welding of the bonnet leak off plug.

References: WR3-90-083, NCR 93020034

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 1520 psig Temp: N/A

Note:

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

46	180	mer of	4		
Q.	Ren	mark	(5)	Non	e

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date:

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 211/93 to 5/12/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 1862 California

(National Board, State, Province, and Endorsements)

Inspector's Signature

Date May 12, 1993

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

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: 3 MO: 90052265

Sheet 1 of 1

2. Plant: San Onofre Nuclear Generating Station

RS: GEN-024, Rev. 1 P&ID: 40123BSO3 (D-7)

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1208-4

Work Serformed by:

Southern California Edison Company

Type Code Symbol Stamp: N/A

A Manuffernian of Commun.

Authorization No:

np: N/A N/A

Identification of System:

Chemical and Volume Control

Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 574 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
114" x 214" Nozzle Type Relief Valve	Crosby	N59377-00-0004	N/A	3PSV9206	1984	Replaced	Yes
114" x 214" Nozzle Type Relief Valve	Crosby	N59377-00-0003	N/A	Rebuild MO 89041852	1983	Replacement	Yes

Description of Work:

Relief valve located in plant position 3PSV9206 was replaced with a refurbished and tested spare relief valve.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: 419.941 psig Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: Owner or Owner's Designee, Tide Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/24/93 to 1/14/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

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

the ASME Code, Section XI.

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

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASKE Code Section XI

Sheet 1 of 1 Owner: Southern California Edison Company Unit:

2244 Walmit Grove Avenue, Rosemead, CA 91770

\$03-91-006 Traveler: CWO: 91041421000

San Opofre Nuclear Generating Station

91042624000

P.O. Box 128, San Clemente, CA 92674-0128

MOMEP: 2/3-6697.00SM

Bechtel Construction Company Work Performed by:

P&ID:

40112ASO3

P.O. Box 450

N.5:

\$3-1204-21

San Clemente, CA 92674-0128

Type Code Symbol Stamp: Authorization No:

NIA NA

Identification of System:

Safety Injection System (1204)

Expiration Date:

NA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 5*74 Addenda (Pipe) ASME Section III, Class 2, 1977 Edition, S'77 Addenda (Valve), Code Casos: None

(6) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

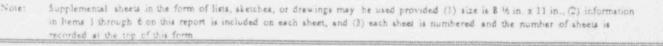
Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buik	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Buttweld Connector	Parker Hannifin Corp.	HT FUAMP	N/A	Item 11 RSO #1470-91	N/A	Replacement	. No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 12 RSO #1469-91	N/A	Replacement	No
%"x .065 Wall Tube	Sandvik Steel	HT #462093	N/A	liem 10 RSO #0305-91	N/A	Replacement	No
4 Tube Union	Parker Hannifin Corp.	HT ≠CBEU	N/A	Item 13 RSO #1675-91	N/A	Replacement	No
4 Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	hem 17 RSO #1511-91	N/A	Replacement	No
5 Globe Valve	Anderson- Greenwood & Co.	5/N N70080	N/A	ltem 16 S3-1204-MR-028 RSO #1672-92	1992	Replacement	Yes

Description of Work:

MMP 2/3-5697 005M, weld pipe tube adaptor to existing root valve. Run/route new 1/2 tubing and install new isolation valve at end of tubing. Fabricate and install weld K per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Bydrostatic [X] Pneumatic [] Other [] Pressure: 138 psig Temp: 68°F



Remarks: Documentation for items listed in Block 6 are available onsite.

(Applicable Manufacture,'s Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed MAURE OF OWNER'S DESIGNEE TITLE

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massechusetts have inspected the components described in this Owner's Report during the period 9-13-91 6-19-92 8-4-92 and state that to the best of my knowledge and belief, the Owner has performed exeminations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date August 4, 1992

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walcan Grove Avecase, Rosemend, CA 91770

San Onofre Nuclear Generating Station

Work Performed by:

3.

P.O. Box 128, San Clements, CA 92674-0128

Bechtal Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Identification of System: Safety Injection System (1204) Sheet 1 of 1

Unit:

Traveler: 503-91-007

CWO: 91041416000

91042415000

MMF: 2/3-6697.005M

P&ID: 40112A3O3 \$3-1204-21

N-5:

Type Code Symbol Stamp:

N/A Authorization No:

N/A Expiration Date: NA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 5"74 Addenda (Pipe) ASME Section III, Class 2, 1983 Edition, S'85 Addenda (Valve), Code Cases: [None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addende

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yea/No
3/4° Buttweld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hennifin Corp.	HT #CAZN	N/A	Item 62 RSO #1469-91	N/A	Replacement	No
4*Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 63 RSO #1675-91	N/A	Replacement	No
4°π 065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 60 RSO #0190-92	N/A	Replacement	No
4"Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	ftem 69 RSO #1511-91	N/A	Replacement	No
4°Globe Valve	Anderson- Greenwood & Co.	S/N N70019	N/A	Rem 66 S3-1204-MR-088 RSO #1441-91	1991	Replacement	Yes

Description of Work:

MMP 2/3-6697.005M, weld pipe tube adaptor to existing root valve. Run/route new 1/3 tubing and install new isolation valve at end of tubing. Fabricate and install weld MQ per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] 8. Pressure: 138 paig Temp: 71°F



	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statement Section XI.	nts made in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp:	N/A
Certificate of Authorization	No: N/A Expiration Date: N/A
Signed: MA Max. Owner or Owner	The Designer, Title
	CERTIFICATE OF INSPECTION
Measachusetts have inspect	g valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State and employed by Arkwright Mutual Insurance Company (Fectory Mutual System) of Norwood, and the components described in this Owner's Report during the period 9-16-91 to state that to the best of my knowledge and belief, the Owner has performed examinations and taken and in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
	neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the emeasures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall
examinations and corrective be liable in any manner for inspection.	r any personal injury or property damage or a loss of any kind arising from or connected with this
examinations and corrective be liable in any manner for inspection.	r any personal injury or property damage or a loss of any kind arising from or connected with this
examinations and corrective be liable in any manner for	r any personal injury or property damage or a loss of any kind arising from or connected with this

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheat 1 of 1

Unit

2244 Walmit Grove Avenue, Rosemesd, CA 91770

Traveler: CWO:

\$03-91-008 91041427000

San Opofre Nuclear Generating Station

91042628000

P.O. Box 128, San Clemente, CA 92674-0128

MANIP: PAID: 2/3-6697.00SM 40112ASO3

3. Work Performed by:

Bechtel Construction Company

N-5:

53-1204-21

P.O. Box 450

San Clemente, CA 92674-0128

Type Code Symbol Stamp: Authorization No:

NA N/A

Identification of System:

Safety Injection System (1204)

Expiration Date:

N'A

5. Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Pipe) ASME Section III, Class 2, 1977 Edition, S'77 Addenda (Valve), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Sumped Yes No
3/4° Buttweld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	Item 26 RSO #1470-91	N/A	Replacement	No
3/4° Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	hem 27 RSO #1469-91	N/A	Replacement	No
4 Tube Union	Parker Hannifin Corp.	HT #UA01	N/A	Item 28 RSO #1675-91	N/A	Replacement	No
% "x .065 Wall Tube	Sandvik Steel	TT #462093	N/A	Item 25 RSO #0305-91	N/A	Replacement	No
4"Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 37 RSO #1511-91	N/A	Replacement	No
4*Globe Valve	Anderson- Greenwood & Co.	S/N N70079	N/A	ltem 31 S3-1204-MR-089 RSO #1672-92	1992	Replacement	Yes

Description of Work:

MMP 2/3-6697.005M, weld pipe tube adaptor to existing root valve. Run/route new 1/2 tubing and install new isolation valve at end of tubing. Fabricate and install weld BL per the WR-5.

8. Testa Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] Pressure: 138 psig Temp: 68.5°F

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 % in. x 11 in., C) information in Items I through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form

Remarks: Documentation for items listed in Block 6 are available onsite

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: MAMARON Long FIELD CONSTRUCTION MANAGER Date: 8/3/92 19

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-18-91 to 8-4-92 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 BORT California
(National Board, State, Province, and Endorsements)

Inspector's Signature

Date August 4, 192

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company

2244 Watzus Grove Avezan, Rosemend, CA 91770

Sheet 1 of 1 Unit:

\$03-91-009 Traveler:

Plant:

CWO:

91041423000

San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128

91042626000 2/3-6697.00SM

MMP: P&ID:

40112A303

Work Performed by:

3.

Bechtel Construction Company P.O. Box 450

N-5:

\$3-1204-21

Sen Chemomie, CA 92674-0128

Type Code Symbol Stamp:

N/A

Identification of System:

Safety Injection System (1204)

Authorization No: Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 3"74 Addende (Pipe) ASME Section III, Class 2, 1983 Edition, S'85 Addends (Valve), Code Cases: [None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3"79 Addenda

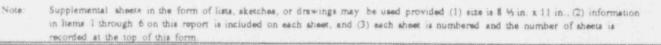
Identification of Components Repaired or Replaced and Replacement Components: 6.

Name of Component	Name of Manufacturer	Manufecturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Buttweld Connector	Perker Hannifin Corp.	HT #UAMP	N/A	Item 48 RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 49 RSO #1469-91	N/A	Replacement	No
4"Tube Union	Perker Hannifin Corp.	HT /UAMB	N/A	Item: 50 RSO #0995-91	N/A	Replacement	No
4°π .065 Wall Tube	Teledyne	HT #462093	N/A	Item 47 RSO #0305-91	N/A	Replacement	No
4 Male Connector	Parker Hennifin Corp.	HT #CBHW	N/A	Item 54 RSO #1511-91	N/A	Replacement	No
%*Globe Valve	Anderson- Greenwood & Co.	S/N N70040	N/A	Item 53 S3-1204-MR-367 RSO #1441-91	1991	Replacement	Yes

Description of Work:

MMP 2/3-6697 00SM, weld pipe tube adaptor to existing root valve. Run/route new 45 tubing and install new isolation valve at end of tubing. Fabricate and install weld MH per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] Pressure: 138 psig Temp: 72°F



9.	Remarks:	Documentation	for	items	listed	in	Block	6 are	available	nneita	
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(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this __replacement __conforms to the rules of the ASME Code,

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: MAMacondry FIELD CONSTRUCTION MONAGER Date: June 15 ,1992

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-18-92 to 6 - 17 - 92 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASSE Code Section XI

Southern California Edison Company Owner:

2244 Weirast Grove Avenue, Rosemend, CA 91770

P.O. Box 128, San Clements, CA 92674-0128

San Opofre Nuclear Generating Station

Sheet I of I

Unit:

Traveler:

SC3-91-010

CWO:

91041417000 91042418000

MMP-

2/3-6697.006346

P&ID:

40112A303

53-1204-34

N-5:

P.O. Box 450

San Clemente, CA 92674-0128

Bechtel Construction Company

Type Code Symbol Stamp: Authorization No:

NIA N/A

Identification of System:

Work Performed by:

Plant!

Safety Injection System (1204)

Expiration Date:

N/A

5. Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 5"74 Addende (Pipe) ASME Section III, Class 2, 1983 Edition, 3'85 Addenda (Valve), Code Cases: Nome

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Burrweld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	Item 17 RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 18 RSO #1469-91	N/A	Replacement	No
4°Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 19 RSO #1675-91	N/A	Replacement	No
16"x .065 Wall Tube	Teledyne	HT #9E4558	N/A	ftem 16 R5O #0190-92	N/A	Replacement	No
h'Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	RSO #1511-91	N/A	Replacement	No
%*Globe Valve	Anderson- Greenwood & Co.	S/N N70056	N/A	Item 22 53-1204-MR-106 RSO #1441-91	1991	Replacement	Yes

Description of Work:

MMP 2/3-6697.00SM, weld pipe tube adaptor to existing root valve. Run/route new 45 tubing and install new isolation valve at end of tubing. Fabricate and install weld U per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] Pressure: 2375 psig Temp: 72*F

Supplemental sheets in the form of lists, sketches, or rawings may be used provided (1) size is 8 1/2 in x 11 in., (2) information Note in Items I through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

facturer's Data Reports to be attached)	
CATE OF COMPLIANCE	
orrect and this replacement conforms to the rules of the ASME	Code,
Expiration Date: N/A	
ENSTRUCTION MANAGER DOLE: June 15	. 1997
the National Board of Boiler and Pressure Vessel Inspectors and the Mutual Insurance Company (Factory Mutual System) of Norwood, d in this Owner's Report during the period 9-/8-92-70 knowledge and belief, the Owner has performed examinations and tall accordance with the requirements of the ASME Code, Section XI. s employer makes any warranty, expressed or implied, concerning the Owner's Report. Furthermore, neither the Inspector nor his employer try damage or a loss of any kind arising from or connected with this	91
Commussions / O California	
Commissions 1862 California (National Board, State, Province, and Endorsements)	
(National Board, State, Province, and Endorsements	
C th	Expiration Date: N/A **STRUCTION **ANAGER Date: June 15 **ATE OF INSPECTION The National Board of Boiler and Pressure Vessel Inspectors and the Mutual Insurance Company (Factory Mutual System) of Norwood, in this Owner's Report during the period 9-/8-9-24-76 sowledge and belief, the Owner has performed examinations and tak occordance with the requirements of the ASME Code, Section XI.

2.

3.

4.

Plant:

Work Performed by:

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

As Required by the Previsions of the ASME Code Section XI

She t I of 1 Owner: Southern California Edison Company Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Bechiel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Identification of System: Safety Injection System (1204)

Traveier:

SO3-91-011 Rev. 0, 1, & 2

CWO: 91041429000

91042429001

91042629000

MMP: 2/3-6697.00SM

40112ASO3 P&ID:

N-51 53-1204-22

Type Code Symbol Stamp: Authorization No:

Expiration Date:

N/A N/A

5. Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Pipe) ASME Section III, Class 2, 1977 Edition, 5'77 Addenda (Valve), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Buttweld Connector	Farker Hannifin Corp.	HT #UAMP	N/A	Item 10 RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 11 RSO #1469-91	N/A	Replacement	No
%" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	RSO #1675-91	N/A	Replacement	No
14" x .065 Wall Tube	Sanovik Steel	HT #462093	N/A	Item 9 RSO #0305-91	N/A	Replacement	No
'4" Male Connector •	Parker Hannifin Corp.	HT #CBHW	N/A	Item 19 RSO #1511-91	N/A	Replacement	No
4" Globe Valve	Anderson- Greenwood & Co.	S/N N70081	N/A	Item 15 S3-1204-MR-114 RSO #1672-92	1992	Replacement	Yes

Description of Work:

MMP 2/3-6697.00SM, weld pipe tube adaptor to existing root valve. Run/route new 1/2" tubing and install new isolation valve at end of tubing. Fabricate and install weld U per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] Pressure: 28 paig Temp: 72*F

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

Subseque put

9. Remarks	: Documentation	for items	listed i	in Block	6 are	available	onsite.
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(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: TE Tour lu L BUL COTES ELL. Date: 9-8, 1972

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mothal Insurance Company (Fectory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/19/9/ to 9/11/92 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

The Commissions 1864 California (National Board, State, Province, and Endorsements)

Date Sept 1/ 1092

Gugminlegales Dan: 9-8-92

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 Units

2244 Walmit Grove Avenue, Rosemesd, CA 91770

Traveler: 503-91-012

San Onofre Nuclear Generating Station Plant:

CWO: 91041431000

91042631000

P.O. Box 128, San Clemente, CA 92674-0128

MANIPE 2/3-6697.005M

P&ID:

40112BSO3

Work Performed by: Bechtel Construction Company N-5:

P.O. Box 450

\$3-1204-12

San Clemente, CA 92674-0128

Type Code Symbol Stamp:

NA

Identification of System:

Authorization No: Expiration Date:

N'A

4.

(b)

3.

6.

Safety Injection System (1204)

NA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 5'74 Addenda (Pipe) 5. (a) ASME Section III, Class 2, 1977 Edition, S'77 Addenda (Valve), Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda

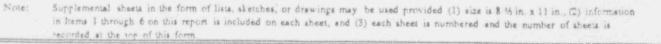
Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yea No
4 Buttweld Connector	Parker Hannifin Corp.	HT #UAEH	N/A	liem 7 RSO #1470-91	N/A	Replacement	No
14 * Pipe	Sandvik Steel	HT #462521	N/A	RSO #1180-91	N/A	Replacement	No
4 Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 9 RSO #1675-91	N/A	Replacement	No
% x .065 Wall Tube	Sandvik Steel	HT #462093	N/A	hem 6 RSO #0305-91	N/A	Replacement	No
4 Male Connector	Parker Hannufin Corp.	HT #CBHW	N/A	liem 16 RSO #1511-91	N/A	Replacement	No
%*Globe Valve	Anderson- Greenwood & Co.	S/N N70084	N/A	hem 12 53-1204-MR-133 R5O #1672-92	1992	Replacement	Yes

7. Description of Work:

> MMP 2/3-6697.005M, weld pipe tube adaptor to existing root valve. Run/route new 1/4 tubing and install new isolation valve at end of tubing. Febricate and install welds SBB and BA per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] Pressure: 813 psig Temp: 69°F



9. Remarks: Documentation for items listed in Block 6 are available onsite.

(Applicable Manufacturer's Data Reports to be anached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: MA Marandry FIELD CONSTRUCTION MANAGER Date: AUGUST \$, 1992
Owner or Owner's Designed Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2 - 6 - 92 to 2 - 5 - 92 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Mangan Commissi

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

Date August \$ 1992

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

Sheet 1 of 1 Unit:

2244 Walnut Grove Avenue, Rosemend, CA 91770

Traveler: \$03-91-020 CWO:

San Onofre Nuclear Generating Station Plant:

91041419000

P.O. Box 128, San Clemente, CA 92674-0128

91042420000 MMP: 2/3-6697.00SM

P&ID: 40112A3O3

Bechtel Construction Company

N-5: \$3-1204-34

Work Performed by:

P.O. Box 450

Type Code Symbol Stamp:

NIA

Identification of System:

San Chompson, CA 92674-0128 Safety Injection System (1204)

Authorization No: Expiration Date:

NIA N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, \$*74 Addenda (Pipe) ASME Section III, Lass 2, 1983 Edition, 5'85 Addenda (Valve), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Buttweld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	Item 46 RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 47 RSO #1469-91	N/A	Replacement	No
4 Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	item 48 RSO #1675-91	N/A	Replacement	No
%"x .065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 45 RSO #0190-92	N/A	Replacement	No
45 Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 52 RSO #1511-91	N/A	Replacement	No
4°Globe Valve	Anderson- Greenwood & Co.	S/N N70020	N/A	Item 51 \$3-1204-MR-279 RSO #1441-91	1991	Replacement	Yes

Description of Work:

MMP 2/3-6697 00SM, weld pipe tube adaptor to existing root valve. Run/routs new 1/2 rubing and install new isolation valve at end of tubing. Fabricate and install weld Z per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] 8. Pressure: 2375 psig Temp: 72°F

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

9.	Remarks:	Documentation	for items	listed	in Block	6 are	available onsite.	
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(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: MAMacon Dry FIELD CONSTRUCTION MANAGER Date: 6/15/92 19

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massechusetts have inspected the components described in this Owner's Report during the period 2-15-91 to 6-17-92 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section X1

Owner: Southern California Edison Company

2244 Walmit Grove Avenue, Rosemesd, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemerne, CA 92674-0128

Unit

Sheet 1 of 1

Traveler: \$03-91-021

CWO:

91041433000

91042633000

MOMP:

2/3-6697.00SM

P&ID:

40112ASO3

Bechtel Construction Company

P.O. Box 450

N-5:

\$3-1204-34

San Clemente, CA 92674-0128

Type Code Symbol Stamp: Authorization- No:

NIA NIA

Identification of System:

Work Performed by:

2.

3.

Safety Injection System (1204)

Expiration Date:

N/A

5. Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addends (Pipe) ASME Section III, Class 2, 1977 Edition, 5'77 Addenda (Valve), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$"79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Sumped Yes/No
1* Buttweld Connector	Parker Hannifin Corp.	HT #HASD	N/A	ltem 67 RSO #1470-91	N/A	Replacement	No
1° Tube End Reducer	Parker Hannifin Corp.	HT FUAKB	N/A	ltem 68 RSO #1469-91	N/A	Replacement	No
4°Tube Union	Parker Hannifin Corp.	HT #UA01	N/A	hem 69 RSO #1675-91	N/A	Replacement	No
4"x .065 Wall Tube	Sandvik Steel	HT #462093	N/A	RSO #0305-91	N/A	Replacement	No
4"Male Connector	Parker Hannufin Corp.	HT #CBHW	N/A	RSO #1511-91	N/A	Replacement	No
5 Globe Valve	Anderson- Greenwood & Co.	S/N N70083	N/A	hem 72 53-1204-MR-356 RSO #1672-92	1992	Replacement	Yes

7. Description of Work:

> MMP 2/3-6697.00SM, weld pipe tube adaptor to existing root valve. Run/route new 1/4 tubing and install new isolation valve at and of tubing. Fabricate and install weld BQ per the WR-5.

8. Tests Conducted: System Leakage [] System Functional [] System Inservice [] Bydrostatic [X] Pneumatic [] Other [] Pressure: 2375 psig Temp: 68.3°F

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 % in. x 11 in., (2) information in Items I through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form

0	Remarks	Documentation	for items	listed in	Block &	are available onsite.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: MA Mounding FIELD CONSTRUCTION MANAGER Date: AUGUST 3, 1992.
Owner or Owner's Designed, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood.

Massachusetts have inspected the components described in this Owner's Report during the period 9-18-20 to 9-20 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date august 4, 1992

FORM NIS-2 OWNER'S REPORT FOR REPAIRS ON REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Owner:

Southern California Edison Company

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

2244 Walrant Grove Avenue, Rosemend, CA 91770

Sheet 1 of 1 3

Unit:

503-91-022

Traveler: CWO:

91042412000

91041358000

MMP:

2/3-6697.00SM

P&ID:

40112B3O3

N-5:

83-1204-12

Booktel Construction Company P.O. Box 450

San Clements, CA 92674-0128

Type Code Symbol Stamp:

NA

Identification of System:

Work Performed by:

Safety Injection System (1204)

Authorization No: Expiration Date:

NIA N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 3"74 Addenda (Pipe) 5. ASME Section III, Class 2, 1983 Edition, S'85 Addends (Valve), Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 8"79 Addends

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

Name of Component	Name of Manufacturer	Menufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampad Yes/No
3/4" Butrweld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	hem 56 RSO #1470-91	N/A	Replacement	No
3/4° Tube End Reducer	Perker Hannifin Corp.	HT #CAZN	N/A	Item 57 RSO #1469-91	N/A	Replacement	No
4°Tube Union	Parker Hannifin Corp.	HT #CASJ	N/A	Item 58 RSO #1243-90	N/A	Replacement	No
4"x .065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 55 RSO #0190-92	N/A	Replacement	No
4"Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	RSO #1511-91	N/A	Replacement	No
4°Globe Valve	Anderson- Greenwood & Co.	S/N N70060	N/A	Item 61 \$3-1204-MR-368 RSO #2423-91	1991	Replacement	Yes

Description of Work:

MMP 2/3-6697 005M, weld pipe tube adaptor to existing root valve. Run/route new 4, nubing and install new isolation valve at end of tubing. Fabricate and install weld P3 per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydroexenic [X] Pneumatic [] Other [] Pressure: 770 psig Temp: 71°F

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 4 in. x 11 in., (2) information in lums 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify Section X	that the statements made in the report are correct and thisreplacement conforms to the rules of the ASME Code,
Type Cod	e Symbol Stamp: N/A
Certificate	of Authorization No: N/A Expiration Date: N/A
simme V	MA Maindry FIELD CONSTRUCTION MANAGER Date: June 15, 199
organea.	Owner or Owner's Designee, Title
	CERTIFICATE OF INSPECTION
Massachu	ests have inspected the components described in this Owner's Report during the period 9-18-92 to
Massachu	T-92 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signification liable is	etts have inspected the components described in this Owner's Report during the period $9 - 18 - 92$ to $1 - 92$ sod state that to the best of my knowledge and belief, the Owner has performed examinations and taken measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. In this certification is the inspector por his employer makes any warranty, expressed or implied, concerning the magnetic of the implementation of the implementa
Massachu corrective By signification examination be liable inspection	etts have inspected the components described in this Owner's Report during the period 9-18-92 to I - 92 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. In this certification is neither the Inspector por his employer makes any warranty, expressed or implied, concerning the past of the accordance with the requirements of the ASME Code, Section XI. In this certification is measures described in this Owner's Report. Furthermore, neither the Inspector por his employer shall any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
Massachu corrective By signine exemination be liable inspection	etts have inspected the components described in this Owner's Report during the period $9-18-92$ to $1-92$ sold state that to the best of my knowledge and belief, the Owner has performed examinations and taken measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. In this certification is neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the new and content a measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
Massachu corrective By signine exemination be liable inspection	etts have inspected the components described in this Owner's Report during the period $9 - 18 - 9 - 2$ to $1 - 9 - 18 - 9 - 2 - 2$ to and state that to the best of my knowledge and belief, the Owner has performed examinations and taken measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. In this certification is neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the one and contact a measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
Massachu corrective By signine exemination be liable inspection	etts have inspected the components described in this Owner's Report during the period $9 - 18 - 922$ to $1 - 922$ and state that to the best of my knowledge and belief, the Owner has performed examinations and taken measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. In this certification is neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the new and contain a measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
Massachu corrective By signine exemination be liable inspection	setts have inspected the components described in this Owner's Report during the period 9-18-92 to 2-18 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. In this certification neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the material amount of the measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall any manner for any personal injury or property damage or a loss of any kind arising from or connected with this

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

As Required by the Provisions of the ASME Code Section XI

Owner: Scanbern California Edison Conspany

2244 Walnut Orove Avenue, Rosemend, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Bechtel Construction Company P.O. Box 450

San Cleanense, CA 92674-0128

Safety Injection System (1204)

Sheet 1 of 1

N-5:

Unit:

Traveler: 903-91-023

CWO: 91041413000

91042413000

MMP: 2/3-6697.005M P&ID: 40112BSO3

53-1204-35

Type Code Symbol Stamp:

N/A

Authorization No: Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 3"74 Addenda (Pipe) ASME Section III, Class 2, 1983 Edition, 5'85 Addends (Valve), Code Cases: None

- Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 8"79 Addenda
- 6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4° Buttweld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	Item 9 RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 10 RSO #1469-91	N/A	Replacement	No
4°Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 11 RSO #1675-91	N/A	Replacement	No
'x .065 Wall Tube	Teledyne	HT #9E4558	N/A	lt m 8 RSO #0190-92	N/A	Replacement	No
4 Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	ften, 20 RSO #1511-91	N/A	Replacement	No
4*Globe Valve	Anderson- Greenwood & Co.	s/N N70027	N/A	Item 14 53-1204-MR-395 R5O #1441-91	1991	Replacement	Yes

Description of Work:

Plant:

Work Performed by:

Identification of System:

3.

MMP 2/3-6697 00SM, weld pipe tube adaptor to existing root valve. Run/route new 16 tubing and install new isolation valve at end of tubing. Fabricate and install weld BR per the WR-5.

Testa Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] Pressure: 138 psig Temp: 71 °F



	(Applicable Manufi	acturer's Data Repo	rts to be attached)	
	CERTIFIC	ATE OF COM	PLIANCE	
We certify that the statemen Section XI.	ta made in the report are cor	rect and this rec	lacement conforms to	the rurs of the ASME Code,
Type Code Symbol Stamp:	N/A			
Certificate of Authorization	No: N/A	Expiration Date:	N/A	
Signed MA Maco	Day FIELD CA	ON STRUCTION	MANAGER I	DELO: JUNE 15 19
Owner or Owner	s Designee/ Title			
	CERTIFIC	TATE OF INS	FCTION	
I the undersioned holding a		CATE OF INSP		Paral Terroritor and the French
or Province of <u>California</u> , Massachusetts have inspecte 6-17-92 and	valid commission issued by the sand employed by Arkwright and the components described state that to the best of my k.	he National Board Mutual Insurance C in this Owner's Rep nowledge and belief	of Boiler and Pressure occupany (Fectory Mutua ort during the period, the Owner has perform	9-18-91 to
or Province of <u>California</u> , Massachusetts have inspect	valid commission issued by the sand employed by Arkwright and the components described state that to the best of my kind in this Owner's Report in a	he National Board Mutual Insurance C in this Owner's Re- nowledge and belief accordance with the	of Boiler and Pressure of Company (Fectory Mutua out during the period , the Owner has perform requirements of the AS	System) of Norwood, 9-18-91 to led examinations and taken ME Code, Section XI.
or Province of California, Massachusette have inspect	valid commission issued by the sand employed by Arkwright and the components described state that to the best of my kind in this Owner's Report in a neither the Inspector nor his	he National Board of Mutual Insurance C in this Owner's Repnowledge and belief accordance with the employer makes an	of Boiler and Pressure of South Pressure of Mutua ort during the period, the Owner has perform requirements of the AS	System) of Norwood, 9-18-91 to led examinations and taken ME Code, Section XI.
or Province of California Massachusetts have inspect and corrective measures describe By signing this certificate, examinations and corrective be liable in any manner for	valid commission issued by the sand employed by Arkwright and the components described state that to the best of my kind in this Owner's Report in a neither the Inspector nor his	he National Board Mutual Insurance C in this Owner's Rep nowledge and belief scoordance with the employer makes an wner's Report. Fur	of Boiler and Pressure of the Source of during the period the period the period of the AS of the	System) of Norwood, 9-18-91 to led examinations and taken ME Code, Section XI. implied, concerning the aspector nor his employer shall
or Province of California, Massachusetts have inspect	valid commission issued by the sand employed by Arkwright and the components described state that to the best of my kind in this Owner's Report in a meither the Inspector nor his measures described in this O	he National Board Mutual Insurance C in this Owner's Rep nowledge and belief secondance with the employer makes an wner's Report. Fur ty damage or a loss	of Boiler and Pressure vocapany (Fectory Mutual out during the period, the Owner has perform requirements of the AS warranty, expressed or thermore, neither the Ir of any kind arising from	System) of Norwood, 9-18-91 to led examinations and taken ME Code, Section XI. implied, concerning the aspector nor his employer shall

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

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walrag Grove Avenue, Rosemend, CA 91770

Sheet 1 of 1 Unit: 3

Traveler: 903-91-024 91041414000 CWO:

San Onofre Nuclear Generating Station

91042414000

P.O. Box 128, San Clements, CA 92674-0128

MMP: 2/3-6697.008M PAID:

Brichtel Construction Company

N-5:

40112A503 \$3-1204-21

erformed by:

P.O. Box 450 San Cierrorse, CA 92674-0128

Type Code Symbol Stamp:

NIA

Identification of System:

Plant:

Safety Injection System (1204)

Authorization No: Expiration Date:

N/A NIA

5. Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, \$"74 Addende (Pipe) ASME 5 no III, Class 2, 1983 Edition, S'85 Addends (Valve), Code Cases: None

(b) Applic of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3"79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4* Buttweld Connector	Parker Hannifin Corp.	HT FUAMP	N/A	Item 44 RSO #1470-91	N/A	Replacement	No
3/4* Tube End Reducer	ter Hannifin Corp.	HT #CAZN	N/A	Item 45 RSO #1469-91	N/A	Replacement	No
4 Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 46 RSO #1675-91	N/A	Replacement	No
41"x 065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 43 RSO #0190-92	N/A	Replacement	No
4"Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 50 RSO #1511-91	N/A	Replacement	No
45°Globe Valve	Anderson- Greenwood & Co.	S/N N70046	N/A	Item 49 \$3-1204-MR-538 RSO #1441-91	1991	Replacement	Yes

Description of Work:

MMP 2/3-6697 OOSM, weld pipe tube adaptor to existing root valve. Run/route new 45 tubing and install new isolation valve at end of tubing. Febricate and install weld NP per the WR-5.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Rydrostatic [X] Pneumatic [] Other [] Pressure: 138 paig Temp: 71°F

	(Applicable Manufacturer's	Data Reports to be attached)
	CERTIFICATE C	OF COMPLIANCE
We certify that the statements in Section XI.	ade in the report are correct and	this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp: N//		
Certificate of Authorization No:	N/A Expirat	ion Date: N/A
Signed: MAMasa Ir Owner or Owner's De	They FIELD CONSTR	UCTION MANAGER Date: JUNE 15 , 1997
	CERTIFICATE	OF INSPECTION
or Province of <u>California</u> and on Massachusetts have inspected the G-17-92 and state	employed by Arkeright Mutual I e components described in this C that to the best of my knowledge	nal Board of Boiler and Pressure Vessel Inspectors and the State matrance Company (Factory Mutual System) of Norwood, byner's Report during the period 9-19-91 to a and belief, the Owner has performed examinations and taken to with the requirements of the ASME Code, Section XI.
examinations and corrective mea	sures described in this Owner's R	r makes any warranty, expressed or implied, concerning the eport. Furthermore, neither the Inspector nor his employer shall ge or a loss of any kind arising from or connected with this
Inspector's Signature	upson comm	(National Board, State, Province, and Endorsements)
Date Greene 17, 1	92	

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

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit:

MO:

91060245 157-91

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID:

40112BSO3

N-5:

S3-1212-15

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Nuclear Sampling System

Expiration Date:

N/A

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

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
*4" Globe Valve	Kerotest	0527-6	N/A	S31212MR182	1976	* * *	Yes
Valve Disc	Kerotest	ARP18-6	N/A	RSO 2485-91	1991	Replacement	Yes

Description of Work:

The valve disc was replaced in the valve in plant position S31212MR182.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 510 psig Temp: N/A

Note:

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

Remarks: The replacement disc was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

ARM Supervising ASME Codes Engineer

Date: Feb. 2 , 19 94

Owner on Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

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

inspection.

the ASME Code, Section XI.

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

Inspector's Signature

Date £1.6, 2, 144

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

Unit:

91121216 MO:

027-92 RS:

P&ID: San Onofre Nuclear Generating Station

40127ESO3 (D-2)

P.O. Box 128, San Clemente, CA 92674-0128

2244 Walmit Grove Avenue, Rosemeed, CA 91770

Southern California Edison Company

N-5:

\$3-1203-23

Work Performed by:

Owner:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Component Cooling Water

Authorization No:

N/A

(b)

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S"75 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%° 3-Way Valve Manifold	Gould Inc.	15040	N/A	3F16262	1978	Replaced	Yes
% 3-Way Valve Manifold	Imperial Eastman Div.	42804	N/A	RSO 3069-86	1986	Replacement	Yes

Description of Work:

The valve manifold for 3F16262 was replaced due to leakage.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 107 psig Temp: N/A

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization N: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 3/7 1923

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 0.3/0.7792 to 03/09/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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

California

(National Board, State, Province, and Endorsements)

DATE Warch 9 10 93

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit:

MO: 92031609

RS:

132-92

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID:

40113ASO3 (C-4) S3-1204-4

N-5:

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Plant:

Authorization No:

Safety Injection

Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, 573 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 3977 Edition, 579 Addenda (b) Identification of Components Repaired or Replaced and Replacement Components:

ASME Repaired, Name of Name of Manufacturer National Other Year Replaced, or Code Identification Serial No. Board No. Built Replacement Component Manufacturer Stamped Yes/No %" Globe Valve BAX49-17 N/A S31204MR319 Yes Valve Disc Kerotest ARP18-9 N/A RSO 2485-91 1991 Replacement Yes SA-479, Gr. 316

Description of Work:

The valve disc was replaced in valve in plant position S31204MR319.

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] SIT Tank - Pressure: 632.3125 psig Temp: N/A

RCS Side - Pressure: 2250.734 psia Temp: 546.065 *

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/14 , 19 94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10-2-92 to 1-17-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and correcti - measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 /SG2 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

Southern California Edison Company Owner:

2244 Waltest Grove Avenue, Rosemend, CA 91770

P.O. Box 128, San Clemente, CA 92674-0128

Unit:

92032181 MO: RS: 102-92

San Onofre Nuclear Generating Station

P&ID:

40111BSO3

N-5:

S3-1201-02

3. Work Performed by:

Plant:

2.

Southern California Edison Company

Type Code Symbol Stamp:

N/A N/A

Identification of System:

Randor Coolant

Authorization No: Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 3"74 Addenda, Code Cases: None 5. (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

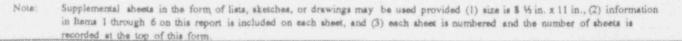
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
46° SS Flex Assembly	Metal Bellows	N/A	N/A	\$31201ML313	N/A	Replaced	Yes
%" SS Flex Assembly	Parker Hannifin	032	N/A	RSO 3739-89	1989	Replacement	Yes

Description of Work:

Due to leakage, the flexible hose connection downstream of valve \$31201MR402 was replaced. The required VT-2 examination was bypassed and later performed as documented in NCR 92040016.

Reference: NCR 92030191

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pheumatic [] Other [] Pressure: 2250 pais Temp: N/A-



FORM NIS-2 (back)

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 12/20 1992

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed .; Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-24-92 to 12-22-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions | 1862 California (National Board, State, Province, and Endorsements)

Data Dec. 22, 1992

As Required by the Provisions of the ASMF Code Section XI.

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit:

N-5:

MO: 92032539

92091794

Plant:

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

GEN-006, Rev. 2 273-93

40130ASO3 P&ID:

S3-1201-3 S3-1201-6

Work Performed by:

Southern California Edison Company

Identification of System:

Reactor Coolant

Type Code Symbol Stamp: Authorization No:

N/A N/A

Expiration Date:

N/A

- Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, W71 Addenda (Case Nuts and Studs), 1980 Edition, S'82 Addenda (Seal Cartridge), Class 2, 1974 Edition, S'74 Addenda (Flange Bolting), Code Cases: None
 - (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda
- Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Reactor Coolant Pump (RCP)	Byron Jackson	701-N-0562	N/A	S31201MP004	1978		Yes
Mechanical Seal Cartridge	Bingham- Willamette	1659057-12	1220	SO23-CART-026	1986	Replaced	Yes
Mechanical Seal Cartridge	Bingham- Willamette	1659057-06	1174	SO23-CART-024	1986	Replacement	Yes
Casing Nuts (8)	Byron Jackson	Ht. 6072143	N/A	RSO 0939-86 SA-194, Gr. 7	N/A	Replacement	No
Casing Nut (1)	Byron Jackson	Ht. 6059588	N/A	RSO 3-P-991-83 SA-194, Gr. 7 ME-92-026, Rev. 1	N/A	Replacement	No
Casing Studs (8)	Byron Jackson	Ht. 126121	N/A	RSO 3-P-991-83 SA-540, Gr. B23 Class 4 ME-92-0022	N/A	Replacement	No
44" Flange Nuts (2)	Vitco Inc.	Hr. 5483089	N/A	RSO 3125-93 SA-194, Gr. 2H CR-2001-93 S31201ML142 S31301ML152	N/A	Replacement	No

Description of Work:

RCP S31201MP004 was disassembled to replace casing to driver mount gasket and to perform required 10-year ISI inspection. MO 92032539 performed the replacement of (8) casing studs, (9) nuts, and two flange nuts on two associated seal lines (ML142 and ML152), VT-1 examination was performed on all new and reused casing studs and nuts and sealhousing cap screws. MO 92091794 performed seal cartridge replacement.

- Tests Conducted: System Leakage [1] System Functional [2,3] System Inservice [] Hydrostatic [] Pneumatic [] Other []
 - 1. Pressure: 2253 psig Temp: 530 °F
 - 2. Pressure: 2253 psig Temp: N/A
 - 3. Pressure: 80.9 psig Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1, .ize is 8 1/4 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (back)

Remarks: The case nut from RSO 2-P-991-83 (certified to 1974 Edition, 5'74 Addenda) was reconciled on ME-92-026. Rev. 1. The casing studs (certified to 1974 Edition, W74 Addenda were reconciled on ME-92-0022. The flange nuts (certified to 1989 Edition, No Addenda) were reconciled to CR-2001-93.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Pot A, 8, Meichlet Supervising ASME Codes Engineer Date: 3/7 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/0/93 to 3/7/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

1862
California
(National Board, State, Province, and Endorsements)

Date Main 7, 1994

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company Unit: 3
2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 92041456
RS: 117-92
Plant: San Onofre Nuclear Generating Station P&ID: 40113ASO3
P.O. Box 128, San Clemente, CA 92674-0128 N-5: N/A

P.O. Box 128, San Clemente, CA 92674-0128

N-5: N/A

Work Performed by: Southern California Edison Company

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

Identification of System: Safety Injection Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 5°75 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%* 3-Way Valve	Gould	14992	N/A	3LT0313	1978	Replaced	Yes
%" 3-Way Valve	Imperial Eastman	42790	N/A	RSO 3069-86	1986	Replacement	Yes

7. Description of Work:

Note:

A 3-way valve to the level indicator manifold 3LT0313 was replaced.

d. Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 640 psig Temp: N/A

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in, x 11 in., (2) information in litems 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 7/20 1992

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Pactory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 44-22-92 to 2-22-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3 MO: 92041841

Plant: San Onofre Nuclear Generating Station P.O. Box 128, San Gemente, CA 92674-0128 RS: GEN-006 P&ID: 40111ASO3 N-5: S3-1201-3

Expiration Date:

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A N/A

4. Identification of System:

Reactor Coolant

 Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, W73 Addenda (Pump), 1980 Edition, S'82 Addenda (Cartridge), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Replaced, or Replacement	Code Stamped Yes/No
Reactor Coolant Pump	Byron Jackson	701-N-0562	N/A	S31201MP004 SO23-CART-21	1979	***	Yes
Reactor Coolant Pump	Bingham	1659057-11	1219	SO23-CART-26	1986	Replacement	Yes
Seal Cartridge	Willamette		Later Held				1

Description of Work:

The Reactor Coolant Pump Seal Cartridge was replaced as a result of scheduled maintenance operations.

8. Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: 2250 psia Temp: 535 °P

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

A	Remark	AL STANK
9	romark	2 - 1000

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Ottober & Designee, Title

Supervising ASME Codes Engineer Date: 8-/6 1992

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Arkwright Mutual Insurance Company (Pactory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 04/25/92 to OC121192 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions 1864 California (National Board, State, Province, and Endorsements)

Date Aug 21 1992

As Responsed by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: MO:

Sheet 1 of 1

92041904

Plant:

93110235

San Onofre Nuclear Generating Station

RS:

121-92 GEN-039

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by:

Southern California Edison Company

P&ID:

40141ESO3 (F-7)

Identification of System:

N-5:

S3-1301-2

Main Steam

Type Code Symbol Stamp: Authorization No:

N/A N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, No Addenda, Code Cases: None (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
4" Globe Valve	Fisher Inc.	6489981	4613	3HV8202	1979	* * *	Yes
116" ф-8 x 36" All-Thread Studs	Cardinal Industrial Products	Ht. Code "F4"	N/A	RSO 2353-92 SA-193, Gr. B7	N/A	Replacement	No
'∕o' Nuts	Cardinal Industrial Products	Ht. Code "E2"	N/A	RSO 2366-92 SA-194, Gr. 7	N/A	Replacement	No

Description of Work:

The body-to-bonner bolting was replaced on the main steam isolation valve in plant position 3HV8202. The replacement studs were cut from all-thread material on MO 93110235 with the required markings being transferred to each piece.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 990 psig Temp: N/A

Note:

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

FORM NIS-2 (back)

NCE nt conforms to the rules of the ASME Code,
Ingineer Date: Z/8 199
Date: 270, 197
ON oiler and Pressure Vessel Inspectors and the State y (Factory Mutual Engineering Association) of 's Report during the period ny knowledge and belief, the Owner has
Report in accordance with the requirements of
rranty, expressed or implied, concerning the more, neither the Inspector nor his employer shal any kind arising from or connected with this
62 California al Board, State, Province, and Endorsements)
and and one of the party and

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Unit:

Sheet 1 of 1

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 92050018 RS: 139-92

San Onofre Nuclear Generating Station

P&ID: 40114BSO3 (D-7)

P.O. Box 128, San Clemente, CA 92674-0128

S3-1206-1 N-5:

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System: 4

Plant:

5.

Authorization No:

N/A

Containment Spray

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, 573 Addenda, Code Cases: None (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%4" Globe Valve	Kerotest	BAX27-18	N/A	S31206MU022	1979	4 * *	Yes
Valve Disc	Kerotest	AEU8-9	N/A	RSO2-P-2249-83	1983	Replacement	Yes

Description of Work:

The valve disc was replaced in valve in plant position S31206MU022.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 488.9 psig Temp: N/A

Note:

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

FORM NIS-2 (back)

Remarks: The replacement disc was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/28, 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6-10-92 to 12-28-43, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 Unit:

92050930

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: RS:

065-93

Plant:

San Onofre Nuclear Generating Station

40111ASO3 (G-4)

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: N-5:

S3-1201-3

3 Work Performed by:

(b)

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A

Identification of System: 4.

N/A

5. Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S72 Addenda, Code Cases: None

Reactor Coolant

Expiration Date:

N/A

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Thermowell	Rosemount	Model 104 AFV-1	N/A	Thermowell @ 3TE0125-1	N/A	Replaced	No
1" Thermowell	Cogwell Mfg. Co.	TW-S	N/A	RSO 4955-85	N/A	Replacement	No

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Description of Work:

The thermowell located at temperature element 3TE0125-1 was replaced in accordance with weld record WR3-93-163. A PT examination was performed on the completed weld.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] Pressure: 2289 psia Temp: 547.3 *F

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5/18/93 to 1/24/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

This pector's Signature Commissions 1862 California (National Board, State, Province, and Endorsements)

Date An. 17, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Scuthern California Edizon Company Unit:

2244 Wakest Grove Avessee, Rossenseed, CA 91770 MO: 92051610 RS: 155-92

2. Plant: See Onofire Nuclear Generating Station P&ID: 401248903 (G-2)
P.O. Box 128, See Clemento, CA 92674-0128 N-5: 83-1208-5

3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Authorization No: N/A
4. Identification of System: Chemical and Volume Control Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Sections III, Class 2, 1971 Edition, 5°73 Addunda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Editions, 3"79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
2° Check Valve	Kerotest	MA8-16	N/A	\$31208MU067	1976		Yes
Valve Disc	Kerotesk	ABH23-4	N/A	RSO 2-P-1372-83	1983	Replacement	Yes

7. Description of Work:

Note:

The valve disc was replaced.

Tests Conducted: System Leskage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: 2400 psig Temp: N/A

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is recorded at the top of this form.

FORM NIS-2 (back)

9.	Remarks:	A Class I	disc was us	ed in lieu of	a Class 2 disc.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designes, Title

Supervising ASME Codes Engineer Date: 11/22 19 92

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2/14/92 to 11/23/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inapector's Signature

Commissions 1862

California

(National Board, State, Province, and Endorsements)

Data May, 23, 1992

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3

MO: 92,060990

93120875

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

RS: P&ID:

GEN-006, Rev. 2 40130BSO3

N-5:

S3-1201-3

3 Work Performed by: Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System: 4

Reactor Coolant

Authorization No:

N/A

Expiration Date:

N/A

5 Applicable Construction Code: ASME Section III, Class 1, 1980 Edition, S'82 Addenda, Code Cases: None (a)

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Reactor Coolant Pump	Byron Jackson	701-N-0564	N/A	S31201MP002	1979	** * *	Yes
Mechanical Seal Cartridge Assembly	Bingham Willamette	1714880-7	1167	SO23-CART-17	1986	Replaced	Yes
Mechanical Seal Cartridge Assembly	Bingham Willamette	1714880-5	1165	SO23-CART-15	1986	Replacement	Yes

Description of Work:

The mechanical seal cartridge assembly in RCP S31201MP002 was replaced with a flow-tested spare. VT-1 examinations were performed on the seal housing cap screws and heat exchanger bolting.

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250 psia Temp: 545 *F

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Owner for Oyper's Designee, Title Supervising ASME Codes Engineer Date: March 3 19 44

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 (National Board, State, Province, and Endorsements)

Date March 3, 1994

As Required by the Provinces of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

P.O. Box 128, San Clemente, CA 92674-0128

San Opofre Nuclear Generating Station

Sheet 1 of 1 Unit:

MO:

92060992 076-93, Rev. 1

RS: P&ID:

40134ASO3 (E-6)

N-5:

S3-1212-13

Work Performed by: 3.

Plant:

2.

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Nuclear Plant Sampling

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Spring Hanger	Sanwa Tekki	NS 90052	N/A	S3SS037H003	1979	**	No
W-13 x 12" Threaded Rod	Nova Machine	Ht. 34105030	N/A	RSO 1647-93 SA-307, Gr. B	N/A	Replacement	No

Description of Work:

The pipe support rod was replaced in accordance with NCR 90050202. Following installation, a VT-3 examination was performed on the support assembly.

Tests Conducted: System Leakage [] System Functional [] System inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 14 in. x 11 in., (2) Note: information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/26, 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 8/31/93 to 12/16/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions 1574 California (National Board, State, Province, and Endorsements)

As Responded by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A N/A

Identification of System: Chemical and Volume Control

Expiration Date:

92061348

40124BSO3

S3-1208-10

153-92

Sheet 1 of 1

Unit:

MO:

RS:

P&ID:

N-5:

N/A

5. Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, 5"73 Addenda, Code Cases: None

(b): Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3" Swing Check Valve	Walworth/Aloyco	A1626	636	S31208MU083	1974	+ + 4	Yes
Valve Disc	Crane Aloyco Inc.	5669 Ht. 25926	N/A	RSO 0088-88	1987	Replacement	Yes

Description of Work:

Note

Plant:

Work Performed by:

The valve disc was replaced in check valve \$31208MU083.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 22 psig Temp: N/A

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

all Wei all Supervising ASME Codes Engineer Date: 1/14 1944

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-9-92 to 1-17-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3

92071063 MO: RS:

021-93, Rev. 1 P&ID: 40111CSO3

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

S3-1212-9

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A

Identification of System:

Nuclear Sampling

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None 5. (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
% ф S.h. 40 Ріре	Bechtel	S3-SS-072-01A	N/A	S3-1212-ML-072 Spool 1A	1979	Repaired/ Replaced	Yes
%"φ Sch. 40 Pipe	Sandvik	Ht. 462190	N/A	RSO 0995-93 SA-376, TP. 304	N/A	Replacement	No

Description of Work:

Note:

The valve in plant position 3HV0514 was relocated in accordance with FCN S6437M. The modification required the replacement of piping including the bending of the replacement pipe. After bending, the replacement piping was installed by welding. RT examinations of the installation welds were performed.

Reference: WR3-93-081

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 19 psig Temp: N/A

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 1/13 . 19 94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 08/12/93 to 0//14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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(Narional Board of (National Board, State, Province, and Endorsements)

en 14,094

As Required by the Provisions of the ASME Code Section XI

Type Code Symbol Stamp:

N/A

P.O. Boz 128, San Clemente, CA 92674-0128 N-5: J3-E087-2

Southern California Edison Company

4. Identification of System: Reactor Coolant Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'75 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3-Way Valve Bypass Manifold	Gould	15017	N/A	3LT0110-2	1978	Replaced	Yes
3-Way Valve Bypass Manifold	Imperial Eastman	42774	N/A	RSO 3069-86	1986	Replacement	Yes

Description of Work:

Work Performed by:

The 3-way valve manifold for level transmitter 3LT0110-2 was replaced.

8. Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250 psig Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Langue for ABM Supervising ASME Codes Engineer Date: Feb. 2 , 1994

Owner or Owner's Designer, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

10/25/93 to 2/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

| 862 | California (National Board, State, Province, and Endorsements)

Date | + 18, 2, 19, 94

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company

Sheet 1 of 1 Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 92080359 RS: 179-92

San Onofre Nuclear Generating Station

P&ID: 40111BS03

P.O. Box 128, San Clemente, CA 92674-0128

83-1201-2 N-5:

3. Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A N'A

4 Identification of System: Reactor Coolant

Expiration Date:

N/A

5. Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, S'75 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 8"79 Addends

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%4* Globe Valve	Rockwell-Edwards	CC604	N/A	\$31201MR043	1986	Repaired	Yes

Description of Work:

The valve canopy seal failed and was repaired in accordance with NCR 92070079. The canopy seal was ground off and the body-to-bonnet joint was seal welded. This joint modification was documented in FCN \$6874M. A post weld PT was performed on the seal weld with satisfactory results.

Reference: WR3-92-333

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250 psig Temp: 530 °F

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Fams 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date 19 Owner or Ox ger's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Fectory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-14-92 to 1-20-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 1862 Californis
(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

Unit:

MO: 92090262

RS: GEN-022

40112ASO3 (H-5) P&ID: \$3-1204-21 N-5:

San Onofre Nuclear Generating Station

2244 Walmit Grove Average, Rosemend, CA 91770

P.O. Box 128, San Clemente, CA 92674-0128

Southern California Edison Company

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A N/A

Identification of System:

Owner:

Plant:

Safety Injection

Authorization No: Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S*74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components: 5.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Replaced, or Replacement	ASME Code Stamped Yes/No
り Nozzle-Type Relief Valve	Crosby	N59371-00-0031	N/A	3PSV8155	1982	* * *	Yes
Disc	Crosby	N91246-39-0104	N/A	RSO 2034-85 SA-479, Tp 316L	N/A	Replacement	No
Spring & Spring Washers (2)	Crosby	NX2702-0064 N89058-84-0686 N89058-84-0692	N/A	RSO 1471-91 SA-479, Tp 316	N/A	Replacement	No
Spindle	Crosby	K58660-34-0034	N/A	RSO2-P-294 SA-479, Tp 316	N/A	Replacement	No
Rese	Croaby	N91258-53-0073	N/A	RSO 2124-92	N/A	Replacement	No

Description of Work:

Note:

The valve was disassembled for inspection due to excessive leakage. The code parts listed above required replacement.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] RWST T005 Level @ 92%

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

FORM NIS-2 (back)

O.	Dame	rka: N	nne
7.4	3/L-C111M	17.06.00 1.7	5/53/992

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: AMerical Supervising ASME Codes Engineer Date: 3/7/, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusens have inspected the components described in this Owner's Report during the period 1/130/92 to 03/09/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions 1864 California (National Board, State, Province, and Endorsements)

m. March 9 10 93

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Unit: Southern California Edison Company Owner: MO: 22/14 Walcast Grove Avenue, Rosemesd, CA 91770 92090987 RS: 194-92 P&ID: 40112ASO3 Plant: San Onofre Nuclear Generating Station \$3-1204-21 P.O. Box 128, San Ciomonte, CA 92674-0128 N-5:

3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Authorization No: N/A
4. Identification of System: Safety Injection Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W71 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$"79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yea/No
HPSI Pump	Ingersoll Rand	1075157	304	S21204MP019	1978	= = =	Yes
Discharge Head	Cann & Saul Steel	90620		S21204MP019	1	Repaired	Yes

7. Description of Work:

The discharge head was repaired by weld buildup and machining to restore the fit between the discharge head register and the pump barrel. Satisfactory PT examinations were performed on the machined surfaces.

References: NCR 92090046, WR3-92-375

Tests Conducted: System Leskage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumetic [] Other []
Pressure: 970 psig Temp: N/A

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

FORM NIS-2 (back)

0	Remarks:	Banne
9	N. GILIMI P.B.	12/10/11/0

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed Ath Jascac Se a B. Merch les Supervising ASME Codes Engineer Date: Feb. 4 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-21-92 to 2-5-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

Plant:

Work Performed by:

Identification of System:

2244 Walcast Grove Avecase, Rosemesd, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Safety Injection System

2/3-6697.00SM MMP:

3

P&ID:

Sheet 1 of 1 Unit

40112C 5O3

92091721000

92091721001 92091726000

92091740000

N-5:

CWO:

83-1204-11

Type Code Symbol Sump: Authorization No:

N/A N/A

Expiration Date:

NIA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, \$'74 Addenda (Tubing & Fittings); ASME Section III Class 2, 1971 Edition, \$'73 Addends (Valve, Exemption IWA-7400 Taken, Supplied to '77, 5'77).

Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Burtweld Conn. 3/4"	Parker Hannifin	HT WATI	N/A	Item #28 RSO #2484-91	N/A	Replacement	No
Tubing, W*X 065 Well 5.5	Sandvik Steel	HT #462093	N/A	Item #29 R5O #1294-91	N/A	Replacement	No
Male Conn. 14"X 14"	Parker Hannifin	HT #CBIY	N/A	Item #30 RSO 2333-91	N/A	Replacement	No
Tube End Reducer	Parker Hampifin	HT #CAZN	N/A	Item #35 RSO #1469-91	N/A	Replacement	No
Globe Needle Valve,	Anderson Greenwood	S/N N70082	N/A	S3-1204-MR-436 Item #31 RSO #1672-92	1992	Replacement	Yes

Description of Work: MMP 2/3-6697 00SM, extend vent (MR-176) to allow for improved operator access and add valve V-436. Fabricated and performed weld "BR" in accordance with the WR-5.

Performed Hydrostatic per VT-2.

Tests Conducted: System Laskage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] 8. Pressure: 3425 psig Temp: 74.4°F

	(Applies	able Manufacturer's Data R	epons to be attached)	
	C	ERTIFICATE OF CO	MPLIANCE	
We certify that the state Section XI.	ements made in the rep	port are correct and this	replacement conforms t	o the rules of the ASME Code
Type Code Symbol State	mp: N/A			
Centificate of Authoriza	stion No: N/A	Expiration Da	e: N/A	
Signed: MRMa.	wner's Designee, Title	ELD CONSTRUCTIO	NAMAGER	Date: 12/16/92 .1
MAN MAN THE RESIDENCE OF THE PERSON OF THE P				
	(CERTIFICATE OF IN	SPECTION	
By signing this certific	where meaning describe			
examinations and corrections are manner	for any personal injur	y or property damage or a	loss of any kind arising fr	Inspector for his employer a rom or connected with this
examinations and corrections are manner		y or property damage or a	loss of any kind arising fr	Inspector for his employer &
examinations and corrected be liable in any manner inspection. Inspector's Sign	for any personal injur	y or property damage or a	loss of any kind arising fr	Inspector for his employer to connected with this California
examinations and corrected be liable in any manner inspection. Inspector's Sign	for any personal injur	y or property damage or a	loss of any kind arising fr	Inspector for his employer to connected with this California
examinations and corrected be liable in any manner inspection. Inspector's Sign	for any personal injury of the Cary of the	y or property damage or a Commissions	loss of any kind arising from 1862. (National Board, State,	Inspector for his employer to connected with this California
examinations and corrected liable in any manner inspection. Inspector's Sign	for any personal injury of the Cary of the	y or property damage or a Commissions	loss of any kind arising from 1862. (National Board, State,	Inspector for his employer a common or connected with this California Province, and Endorsements
examinations and corrected liable in any manner inspection. Inspector's Sign	for any personal injury of the Cary of the	y or property damage or a	loss of any kind arising from 1862. (National Board, State,	Inspector for his employer to connected with this California

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenus, Rosemead, CA 91770

Sheet 1 of 1 Unit:

3 MO: 92091792

San Onofre Nuclear Generating Station

GEN-022

P.O. Box 128, San Clemente, CA 92674-0128

RS: P&ID: N-S:

40124ASO3 (G-3) S3-1208-10

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Chemical and Volume Control

N/A

(a)

Expiration Date:

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 574 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
'A" x 'A" Nozzie-Type Relief Valve	Crosby	N59371-00-0005	N/A	3PSV9221	1977	Replaced	Yes
14" x 14" Nozzle-Type Relief Valve	Crosby	N59371-00-0036	N/A	RSO 0136-89	1988	Replacement	Yes

Description of Work:

The relief valve in plant position 3PSV9221 was replaced in-kind.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 22 psig Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 17 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date:

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/1/9/3 to 1/14/6/4, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 1862 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of i Unit

3 MO:

920918 ... 93101731

San Onofre Nuclear Generating Station Plant:

P.O. Box 128, San Clemente, CA 92674-0128

GEN-009, Rev. 3

268-93

P&ID:

40141CS33 (G-7)

Work Performed by:

Southern California Edison Company

N-5:

S3-1301-2

Identification of System: 4.

Main Steam

Type Code Symbol Stamp: Authorization No:

N/A

N/A

Expiration Date:

N/A

- Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None S.
 - Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)
- Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" x 10" Safety Valve	Crosby	N58737-00-0028	N/A	3PSV8410	1977	Replaced	Yes
6" x 10" Safery Valve	Crosby	N58737-00-0014	N/A	RSO 2742-93	1976	Replacement	Yes
(12) 1 % " x 8 Heavy Hex Nuts	Nova Machine Products	Heat Code K8H	N/A	RSO 1373-93 SA-194, Gr. 7	N/A	Replacement	No

Description of Work:

The main steam safety valve in plant position 3PSV8410 was replaced with a refurbished and tested spare. See attached NVR-1 form. Twelve (12) inlet flange nuts were also replaced.

Crosby had erroneously replaced the original valve nameplate, changing the serial number to N58737-01-0014 while refurbishing the valve. Subsequently, a duplicate of the original valve nameplate was supplied by Crosby and attached to the valve in accordance with MO 93101731.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 990 psig Temp: N/A



Flexidisc conversion per FCNs F8704M and F8216M

	(Applicable Ma	mufacturer's Data Re	ports to be attached)		
	CERT	TFICATE OF CO	MPLIANCE		
We certify that the statem Section XI.	ents made in the report an	e correct and this re	placement conforms to	the rules of the	ASME Code,
Type Code Symbol Stamp:	N/A				
Certificate of Authorizatio	n No: N/A	Expiration Date	e: N/A		
Signed:	Weilel	Supervising ASME	Codes Engineer	Date: /	/14 , 1991
	CER'	TIFICATE OF INS	SPECTION		
or Province of California,	a valid commission iss ed and employed by Arkwnyt have inspected the compon	ht Mutual Insurance tents described in thi and state that to the	Company (Factory Mu s Owner's Report during best of my knowledge	nual Engineering og the period and belief, the O	Association) of wher has
performed examinations a the ASME Code, Section X					
performed examinations a the ASME Code, Section X By signing this certificate examinations and correcti		his Owner's Report.	Furthermore, neither	he Inspector no	his employer shall

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

Work Performed by:

Identification of System:

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Southern California Edison Company

Type Code Symbol Stamp:

Authorization No: N/A

S3-1301-2

Expiration Date:

Sheet 1 of 1 Unit:

MO:

RS:

P&ID:

N-5:

3

92091828

93101732

268-93

GEN-009, Rev. 3

40141CSO3 (G-6)

N/A N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None (8)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Main Steam

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6 x 10" Safety Valve	Crosby	N58737-00-0029	N/A	3PSV8411	1977	Replaced	Yes
6" x 10" Safety Valve	Crosby	N58737-00-0018	N/A	RSO 2742-93	1976	Replacement	Yes
(12) 1% x 8 Heavy Hex Nuts	Nova Machine Products	Heat Code K8H	N/A	RSO 1373-93 SA-194, Gr. 7	N/A	Replacement	No

Description of Work:

The main steam safety valve in plant position 3PSV8411 was replaced with a refurbished and tested spare. See attached NVR-1 form. Twelve (12) inlet flange nuts were also replaced.

Crosby had erroneously replaced the original valve nameplate, changing the serial number to N58737-01-0018 while refurbishing the valve. Subsequently, a duplicate of the original valve nameplate was supplied by Crosby and attached to the valve in accordance with MO 93101732.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 990 psig Temp: N/A



Flexidisc conversion per FCNs F8407M and F8216M

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statement Section XI.	ents made in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp:	N/A
Certificate of Authorization	n No: N/A Expiration Date: N/A
Signed: Owner or Owner	Supervising ASME Codes Engineer Date: 1/13, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
or Province of California	CERTIFICATE OF INSPECTION (a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State and employed by Arlowight Mutual Insurance Company (Factory Mutual Engineering Association) of
or Province of California Norwood, Massachusetts I G// 5/ 9. to performed examinations a	a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stand employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of have inspected the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has and raken corrective measures described in this Owner's Report in accordance with the requirements of
or Province of California, Norwood, Massachusetts II Horwood, Massachusetts II Horwood, Massachusetts II To performed examinations a the ASME Code, Section X By signing this certificate examinations and correcti	a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stand employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of have inspected the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has and raken corrective measures described in this Owner's Report in accordance with the requirements of

As Required by the Provisious of the ASME Code Section XI

Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit: 3

MO:

RS:

92091829

93101734

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

GEN-009, Rev. 3

268-93 40141CSO3 (G-4)

Work Performed by:

Southern California Edison Company

P&ID:

N-5:

S3-1301-2

Identification of System:

Main Steam

Type Code Symbol Stamp:

N/A

Authorization No:

N/A

Expiration Date:

N/A

- (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None
 - Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)
- 6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" x 10" Safety Valve	Crosby	N58737-00-0033	N/A	3PSV8415	1977	. Replaced	Yes
6" x 10" Safety Valve	Crosby	N58737-00-0012	N/A	RSO 2742-93	1976	Replacement	Yes
%" x 8 Heavy Hex Nuts	Cardinal Industrial Products	Heat Code E2	N/A	RSO 1171-93 SA-194, Gr. 7	N/A	Replacement	No

Description of Work:

The main steam safety valve located in plant position 3PSV8415 was replaced with a refurbished and tested spare. See attached NVR-1 form. Twelve (12) inlet flange nuts were also replaced.

Crosby had erroneously replaced the original valve nameplate, changing the serial number to N58737-01-0012 while refurbishing the valve. Subsequently, a duplicate of the original valve nameplate was supplied by Crosby and attached to the valve in accordance with MO 93101734.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 990 psig Temp: N/A

Note:

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

^{*}Flexidisc conversion per FCNs F8704M and F8216M.

Remarks: The replacement nut material was reconciled to the original construction code requirements on SEE-92-0065.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/13 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 09/15/93 to 01/14/94, and stand that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 1864 California (National Board, State, Province, and English (National Board, State, Province, and Endorsements)

an 14 1994

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: MO: 92091830

Sheet 1 of 1

RS:

P&ID:

93101612

San Onofre Nuclear Generating Station

GEN-009, Rev. 3

P.O. Box 128, San Clemente, CA 92674-0128

268-93

40141DSO3 (G-6)

Work Performed by:

Southern California Edison Company

N-5: S3-1301-1

Plant:

Type Code Symbol Stamp:

N/A

Identification of System:

Main Steam

Authorization No: Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 574 Addenda, Code Cases: None (a)

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" x 10" Safety Valve	Grosby	N58737-00-0025	N/A	3PSV8403	1977	Replaced	Yes
6" x 10" Safety Valve	Crosby	N58737-00-0005	N/A	RSO 2742-93	1976	Replacement	Yes
(12) 1% x 8 Heavy Hex Nuts	Cardinal Industrial Products	Heat Code E-2	N/A	RSO 1171-93 SA-194, Gr. 7	N/A	Replacement	r.o

Description of Work:

The main steam safety valve in plant position 3PSV8403 was replaced with a refurbished and tested spare. See attached NVR-1 form. Twelve (12) inlet flange nuts were also replaced.

Flexidisc conversion per FCNs F8704M and F8216M

Crosby had erroneously replaced the original valve nameplate, changing the serial number to N58737-01-0005 while refurbishing the valve. Subsequently, a duplicate of the original valve nameplate was supplied by Crosby and attached to the valve in accordance with MO 93101612.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 1000 psig Temp: N/A

None

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

Remarks: The replacement nut material was reconciled to the original construction code requirements on SEE-92-0065.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

- Supervising ASME Codes Engineer Date: 1/13 19 94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/15/93 to 1/14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Jan. 14, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit:

MO:

92091831

93101733

GEN-009, Rev. 3 268-93

401410503

P&ID:

RS:

N-5:

S3-1301-2

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Main Steam

Authorization No: Expiration Date:

N/A N/A

(a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" x 10" Safety Valve	Crosby	N58737-00-0032	N/A	3PSV8414	1977	Replaced	Yes
6" x 10" Safety Valve	Crosby	N58737-00-0013	N/A	RSO 2742-93	1976	Replacement	Yes
(9) 1%" x 8 Heavy Hex Nuts	Nova Machine Products	Heat Code K8H	N/A	RSO 1373-93 SA-194, Gr. 7	N/A	Replacement	No
(3) 1 % " x 8 Heavy Hex Nuts	Cardinal Industrial Products	Heat Code E2	N/A	RSO 1171-93 SA-194, Gr. 7	N/A	Replacement	No

Description of Work:

The main steam safety valve in plant position 3PSV8414 was replaced with a refurbished and tested spare. See attached NVR-1 form. Twelve (12) inlet flange nuts were also replaced.

Crosby had erroneously replaced the original valve nameplate, changing the serial number to N58737-01-0013 while refurbishing the valve. Subsequently, a duplicate of the original valve nameplate was supplied by Crosby and attached to the valve in accordance with MO 93101733.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 990 psig Temp: N/A

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

^{*}Flexidisc conversion per FCNs F8407M and F8216M

Remarks: The replacement nut material was reconciled to the original construction code requirements on SEE-92-0065.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Versel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-15-9-3 to 1-14-9-4, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Recusived by the Provisions of the ASME Code Section XI

Sheet 1 of 1
Owner: Southern California Edison Company Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 92091836

RS: 217-52, Rev. 1
2. Plant: San Onofre Nuclear Generating Station P&ID: 40111ASO3 (G-2)
P.O. Box 128, San Clemente, CA 92674-0128 N-5: S3-1201-3

4. Identification of System: Reactor Coolant Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, W71 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
(16) RCP Casing Studs	Byron Jackson	Hr. 126121	N/A	RSO 3-P-991-83	N/A	Repaired	No

Description of Work:

Note:

In accordance with FCN 57343M, the ISI holes on 16 studs were redrilled/reamed. A surface and volumetric examination was performed on each stud after redrilling/reaming.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: N/A Temp: N/A

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

). }	Remarks: The studs are required to meet ASME III, Class 1, 1971 Edition, W71 Addenda. The studs repaired are certified to ASME III, Class 1, 1974 Edition, W74 Addenda. The difference was reconciled per ME-92-0022. (Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We cert	tify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
Type C	ode Symbol Stamp: N/A
Certific	ate of Authorization No: N/A Expiration Date: N/A
Signed	Owner of Owner's Designee, Title Supervising ASME Codes Engineer Date: 1/13 1994
	내용하다 내용 시간 사람들은 얼마나 나는 사람들은 사람들이 되었다.

CERTIFICATE OF INSPECTION

I, the undersigned holding a vilid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 0665193 to 01114994 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 1864 California (National Board, State, Province, and Endorsements)

As Respitives by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: 3 MO: 92092029

Sheet 1 of 1

RS: 209-92

San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128 P&ID: 40134ASO3 N-5: S3-1212-6

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

Plant:

Authorization No:

N/A N/A

Identification of System:

Nuclear Sampling

Expiration Date:

N/A

5. (a)

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, No Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda (b)

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Valve w/%" Reducers (Cont. Iso. Valve)	Fisher	6289689	2871	3HV0513	1977		Yes
Valve Plug	Fisher	LD2973-1	N/A	RSO 2726-93 SA-479, Gr. 316L	1993	Replacement	Yes

Description of Work:

The valve plug was replaced in the containment isolation valve located in plant position 3HV0513.

8. Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2244 psia Temp: N/A

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Owner or Owner's Designee, Title

Jaca for ABM Supervising ASME Codes Engineer Date: Feb. 1 , 19 94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

3/0/93 to 9/1/94 and state that to the best of my knowledge and belief, the Owner has
performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions 86.2 California (National Board, State, Province, and End

(National Board, State, Province, and Endorsements)

As Requized by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit:

MO: 92092030 RS: 208-92

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: 40134ASO3 (C-7) N-5: S3-1212-6

3

N/A

Work Performed by:

3.

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A

Identification of System:

Nuclear Sampling

Expiration Date:

N/A

(a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
44" Globe Valve	WKM	70-117771	1200	3HV0512	1978	* 4 9	Yes
Inner Valve (Disc)	Anchor Darling	Ht. Code H3042	N/A	RSO 0296-92 Stellite 6B	N/A	Replacement	No

7. Description of Work:

The inner valve was replaced in the globe valve in plant position 3HV0512.

8. Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2244 psia Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expirat on Date: N/A

Supervising ASME Codes Engineer

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of the ASME Code, Section XI.

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

Inspector's Signature Commissions 1862
(National Board)

California

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Owner: Southern California Edison Company Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

3 MO: 92092258 RS: 200-92

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: 40113AS03 (C-4)

N-5: S3-1204-4

Southern California Edison Company

Type Code Symbol Stamp:

Authorization No:

N/A

Identification of System:

3.

5.

Work Performed by:

Safety Injection

Expiration Date:

N/A N/A

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%" Globe Valve	Kerotest	BAE21-20	N/A	S31204MR320	1979	* × *	Yes
Disc	Kerotest	ARP19-2	N/A	RSO 2485-91	1991	Replacement	Yes

Description of Work:

Kerotest valve in plant position \$31204MR320 was reported to be leaking by its seat. The valve was disassembled and reworked. The valve disc was replaced with an in-kind part and valve was reassembled.

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250,734 psia Temp: 546.065 *F

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/13 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

10/7/92 to 1/14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

P.O. Box 128, San Clemente, CA 92674-0128

San Onofre Nuclear Generating Station

Sheet 1 of 1 Unit:

MO:

92100117

213-92

RS: P&ID: N-5:

40122BS03 C-4 S3-1219-4

Work Performed by:

Plant:

2

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Fuel Pool Cooling

Expiration Date:

N/A

S.

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'75 Addenda, Code Cases: None

(b)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5779 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/8" Instrument Valve	Gould Inc.	23033	N/A	3LT03054	1979	Replaced	Yes
3/8" Instrument Valve	Imperial Clevite	43161	N/A	RSO 4623-86 Model 30018316	1986	Replacement	Yes

Description of Work:

The instrument valve was replaced due to leakage.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] T006 @ 96% level

Note:

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

Remarks: NUIC

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Attificial Supervising ASME Codes Engineer Date: 7/15 , 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 01/06/93 to 07/15/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

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

EST CRESTON Commissions 1864

California .

Inspector's Signature

the ASME Code, Section XI.

(National Board, State, Province, and Endorsements)

Date July 15 1993

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

Sheet 1 of 1

Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: RS:

92111288

San Onofre Nuclear Generating Station

P&ID:

135-93

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

40111BSO3 (E-4) S3-1201-2

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A N/A

Identification of System:

Reactor Coolant

Authorization No:

N/A

5.

Expiration Date:

Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, S'75 Addenda, Code Cases: None

(b)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda

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

-	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
-	*/* Globe Valve	Rockwell Edwards	CC606	N/A	S31201MR038	1986	Repaired	Yes

Description of Work:

The valve located in plant position \$31201MR038 was modified by removing the existing canopy and canopy weld and seal welding the threaded body-to-bonnet joint. A PT examination was performed.

Reference: WR3-93-295

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 °F

Note:

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

	ble Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statements made in the rep	ort are correct and this repair conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A	
Certificate of Authorization No: N/A	Expiration Date: N/A
Signed: all Merile Cowner or Owner's Designee, Title	Supervising ASME Codes Engineer Date: Z /4 1999
	CERTIFICATE OF INSPECTION
or Province of California, and employed by Ar Norwood, Massachusetts have inspected the co	issued by the National Board of Boiler and Pressure Vessel Inspectors and the State kwright Mutual Insurance Company (Factory Mutual Engineering Association) of omponents described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has measures described in this Owner's Report in accordance with the requirements of
performed examinations and taken corrective	
performed éxaminations and taken corrective the ASME Code, Section XI. By signing this certificate, neither the Inspec- examinations and corrective measures describe	tor nor his employer makes any warranty, expressed or implied, concerning the ed in this Owner's Report. Furthermore, neither the Inspector nor his employer shall by or property damage or a loss of any kind arising from or connected with this Commissions 1862 California

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

nit:

MO: 92111356

RS:

070-93

P&ID:

40111BSO3 N-5: S3-1201-2

Work Performed by: 3.

Owner:

Plant

Southern California Edison Company

Type Code Symbol Stamp:

N/A

4. Identification of System:

Authorization No:

N/A

Reactor Coolant

2244 Walnut Grove Avenue, Rosemead, CA 91770

Southern California Edison Company

San Opofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Expiration Date:

N/A

5 Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S71 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Pressurizer Heater	Combustion Engineering	15E	N/A	S31201ME613	1981	Replaced	Yes
Pressurizer Heater	Combustion Engineering	#2(J-6421)	N/A	RSO 0813-91	1983	Replacement	Yes

Description of Work:

The pressurizer heater in plant position S31201ME613 was replaced.

References: NCR 92030170, WR3-93-169

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 *F

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 1/13 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachuserts have inspected the components described in this Owner's Report during the period

7/1/43 to ///44 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by: 3.

Identification of System:

4

Southern California Edison Company

Reactor Coolant

P&ID:

40111BSO3 S3-1201-2 N-5:

3

92111357 93101799

93101833 071-93

266-93

Type Code Symbol Stamp:

N/A N/A

Authorization No: Expiration Date:

Sheet 1 of 1

MO:

RS:

N/A

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S71 Addenda, Code Cases: None (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Pressurizer Heater	Combustion Engineering	CE# 25E	N/A	S31201ME623	1981	Repaired	Yes
Pressurizer Heater Plug	Hub Inc.	Hr. A53520	N/A	RSO 0759-93 SA-479, Tp. 316	N/A	Replacement	No

Description of Work:

Pressurizer heater in plant position S31201ME623 was prepared for removal by cutting the nozzle (sleeve)-to-heater weld. During the attempted removal (MO 92111357), the heater became stuck. Rather than continuing to try to remove the heater, a determination was made to plug the heater and have it remain in place. The nozzle-to-heater weld was re-installed (WR3-93-596). A heater plug (fabricated on MO 93101833) was installed in the heater by welding (WR3-93-594). PT examinations were performed.

References: NCRs 93100157 and 92060027

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psia Temp: 546.065 *F

Note Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (5) each sheet is numbered and the number of sheets is recorded at the top of this form.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/14 19 99

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7/3/93 to 1/14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station Plant:

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

92112756

40113BSO3

S3-1204-3

240-92, Rev. 1

N/A N/A

Identification of System:

Safety Injection

Authorization No: Expiration Date:

Sheet 1 of 1

Unit:

MO:

RS:

P&ID:

N-5

N/A

Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, S'74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1"¢ Sch. 160 Spool Piece	Bechtel	53-SI-065-01B	N/A	S31204ML065	1982	Replaced	Yes
l"φ Sch. 160 Spool Piece	Altech Specialty Steel Corp.	Ht. AH6710	N/A	RSO 1360-93 SA-376, TP. 316	N/A	Replacement	No

Description of Work:

To facilitate the rework of reactor coolant pump S31201MP004, a portion of pipeline S3-1204-ML-065-1*-A-FEO was removed by cutting. Replacement piping was re-installed by making two new ASME welds (ref. FCN F8751M). The new welds were examined by radiography and liquid penetrant examination.

Reference: WR3-92-451

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 *F

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: Supervising ASME Codes Engineer Date: 1/14, 1994

CERTIFICATE OF INSPECTION

I, the indersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11/10/993 to 1/14/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions / Commissi

tired by the Provisions of the ASME Code Section XI

Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit:

RS:

Sheet 1 of 1

MO: 92120994

93101798

San Onofre Nuclear Generating Station

93101833

P.O. Box 128, San Clemente, CA 92674-0128

069-93 265-93

Work Performed by:

Plant:

P&ID: 40111BSO3

Southern California Edison Company

N-5: S3-1201-2

Identification of System: Reactor Coolant

Type Code Symbol Stamp:

N/A N/A

Authorization No: Expiration Date:

N/A

(a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'71 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Pressurizer Heater	Combustion Engineering	J-5804-32 32E	N/A	S31201ME620	1981	Repaired	Yes
Pressurizer Heater Plug	Hub Inc.	Ht. A53520	N/A	RSO 0759-93 SA-479, Tp. 316	N/A	Replacement	No

Description of Work:

The pressurizer heater in plant position S31201ME620 was prepared for removal by cutting the nozzle (sleeve)-to-heater weld. During the attempted removal (MO 92120994), the heater became stuck. Rather than continuing to try to remove the heater, a determination was made to plug the heater and have it remain in place. The nozzle-to-heater weld was re-installed (WR3-93-595)* A heater plug (fabricated on MO 93101833 from bar stock) was installed in the heater by welding (WR3-93-593). PT examinations were performed.

References: NCRs 93010034, 93100156, 93110006

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 °F

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

herchler Supervising ASME Codes Engineer Owney of Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/30/93 to 3/2/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions

(National Board, State, Province, and Endorsements)

Date March 2, 1994

As Respuired by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: MO:

Sheet 1 of 1

92121424

Plant:

San Onofre Nuclear Generating Station

RS: P&ID: GEN-022, Rev. 1

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

40112ASO3 (D-5) S3-1204-21

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Safety Injection

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 5'74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
ሳ" Relief Valve	Crosby	N59371-00-0030	N/A	3PSV8154	1982	* * *	Yes
Valve Disc	Crosby	N91246-42-0115	N/A	RSO 4892-85 SA-479, Tp. 316L	N/A	Replacement	No
Spring	Crosby	NX2702-0070	N/A	RSO 1681-92	N/A	Replacement	No
Spring Washers	Crosby	N89058-86-0714 N89058-86-0727	N/A	RSO 1681-92	N/A	Replacement	No
Spindle	Crosby	N58660-34-0038	N/A	RSO 2-P-294	N/A	Replacement	No
Base	Crosby	N91258-54-0076	N/A	RSO 1536-93	N/A	Replacement	No

Description of Work:

Note:

The 14" relief valve in plant position 3PSV8154 was refurbished.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Tank T006 Level @ 96%

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: AMailel Supervising ASME Codes Engineer Date: 15 1954

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-20-93 to 1-6-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

Unit:

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

MO: 93010738 RS: GEN-015

Plant: San Onofre Nuclear Generating Station

P&ID: 40111BSO3 (G-7)

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1201-2

3. Work Performed by: South

Southern California Edison Company

Type Code Symbol Stamp: N/A

4. Identification of System:

Reactor Coolant System

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

Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, No Addenda (Valve),
 S*74 Addenda (Bolting), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'70 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" x 8" Pressurizer Safety Valve	Dresser Ind.	BSO3209	N/A	3PSV0200	1978	Replaced	Yes
6" x 8" Pressurizer Safety Valve	Dresser Ind.	BSO3210	N/A	RSO 2431-93	1978	Replacement	Yes
2"-8 x 141/4" Inlet Studs (3)	Cardinal	Ht. Code "B4"	N/A	RSO 3078-91 SA-193, Gr. B7	N/A	Replacement	No
2"-8 Inlet Nuts (6)	Nova Machine	Ht. Code "K7M"	N/A	RSO 1869-93 SA-194, Gr. 7	N/A	Replacement	No

7. Description of Work:

The pressurizer safety valve in plant position 3PSV0200 was replaced with a tested and refurbished spare valve. In addition, (3) inlet studs and (6) inlet nuts were replaced. A VT-1 examination was performed on the bolting.

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [], Pneumatic [] Other []
 Pressure: 2250.734 psia Temp: 546.065 *F

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ¼ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (back)

	(Applicable	Manufacturer's Data R	eports to be attached)		
	CE	RTIFICATE OF CO	MPLIANCE		
We certify that the state Section XI.	ements made in the report	t are correct and this p	placement conforms to	o the rules of the ASME	Code,
Type Code Symbol Stan	np: N/A				
Certificate of Authoriza	tion No: N/A	Expiration Da	te: N/A		
Signed:	yeilel	Supervising ASM	Codes Engineer	Date: 1/14	19 9 4
Owner or Ov	vner's Designee, Title				
	CI	ERTIFICATE OF IN	SPECTION		
or Province of Californi Norwood, Massachuser 9/22/9-3 performed examination	ing a valid commission iss ia, and employed by Arkw ts have inspected the com to to s and taken corrective me	tued by the National Bo right Mutual Insurance ponents described in the , and state that to the	ard of Boiler and Pres Company (Factory M is Owner's Report dur best of my knowledge	utual Engineering Associ ing the period and belief, the Owner i	ation) of
or Province of Californi Norwood, Massachusett 9/22/33 performed examination the ASME Code, Section By signing this certific examinations and corre	ing a valid commission issia, and employed by Arkwas have inspected the commits and taken corrective men XI.	right Mutual Insurance ponents described in the and state that to the assures described in this nor his employer mak in this Owner's Report.	pard of Boiler and Press Company (Factory M is Owner's Report dur best of my knowledge Owner's Report in ac es any warranty, expre Furthermore, neither	utual Engineering Associ ing the period and belief, the Owner is cordance with the requi- essed or implied, concern the Inspector nor his er	ation) of ias rements of ing the inployer shall
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As Resputeed by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 93010745 RS: GEN-015

Plant: San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128 P&ID: 40111BSO3 (G-5) N-5: S3-1201-2

Work Performed by: Southern California Edison Company Type Code Symbol Stamp: Authorization No:

N/A N/A

Identification of System:

Reactor Coolant

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, No Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" x 8" Pressurizer Safety Valve	Dresser Ind.	BU06254	N/A	3PSV0201	1980	Replaced	Yes
6" x 8" Pressurizer Safety Valve	Dresser Ind.	BSO3211	N/A	RSO 2431-93	1978	Replacement	Yes

Description of Work

The pressurizer safety valve in plant position 3PSV0201 was replaced with a tested and refurbished spare valve.

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psia Temp: 546.065 °F

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: AMerila Supervising ASME Codes Engineer Date: 1/14 1974

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

9722/93 to 1/14/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 14, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Unit: 3 MO: 93012466

Sheet 1 of 1

2244 Walnut Grove Avenue, Rosemead, CA 91770

RS: 136-93

San Onofre Nuclear Generating Station Plant:

P&ID: 40111BSO3 (E-6)

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1201-2

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Reactor Coolant

Expiration Date:

NA

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, S'75 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%" Globe Valve	Rockwell Edwards	CC650	N/A	S31201MR040	1986	Repaired	Yes

Description of Work:

Note:

The valve located in plant position S31201MR040 was modified by removing the existing canopy and canopy weld and seal welding the threaded body-to-bonnet joint. A PT examination was performed.

Reference: WR3-93-296

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 *F

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 2/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

7/23/93 to 2/15/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions | 1862 | California (National Board, State, Province, and Endorsements)

Date Feb. 15, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit:

MO: 93020105

RS: P&ID: GEN-006, Rev. 2 40130BSO3

San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128

N-5:

S3-1201-3

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Reactor Coolant

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 1, 1980 Edition, 5'82 Addenda, Code Cases: None S.

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Reactor Coolant Pump (RCP)	Byron Jackson	701-N-0563	N/A	S31201MP001	1979		Yes
Mechanical Seal Cartridge	Bingham- Willamette	1659057-2 SO23-CART-23	1173	RSO 2779-86	1986	Replaced	Yes
Mechanical Seal Cartridge	Bingham- Willamette	1714880-6 SO23-CART-16	1166	RSO 2779-86	1986	Replacement	Yes

Description of Work:

The seal cartridge was replaced in RCP S31201MP001.

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 *F

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Twner or Owner's Designee, Title

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 2 /4 19 94

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

CERTIFICATE OF INSPECTION

Norwood Massachusetts have inspected the components described in this Owner's Report during the period

1011/193 to 2015/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

(National Board, State, Province, and Endorsements)

Inspector's Signature Commissions 1862
(National Board)

Date Flb. 15, 1994

As Recogned by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit:

MO: RS:

93020823

San Onofre Nuclear Generating Station

P&ID:

40111ASO3

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

S3-1201-3

GEN-005, Rev. 2

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Reactor Coolant

Expiration Date:

N/A

(a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'71 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Vertical Heat Exch. (Steam Generator)	Combustion Engineering	72270-1	22264	S31301ME089P	1977	* * *	Yes
Primary Manway Studs (20)	Combustion Engineering	Ht. 82158 Ht. Code J-6391-1	N/A	RSO 2-P-1131-83 SA-540, Gr. B24, Cl. 3	N/A	Replacement	No
Primary Manway Geared Nuts (20)	EG&G	Hr. 52763	N/A	RSO 2554-85 SA-194, Gr. 7	N/A	Replacement	No

Description of Work:

The primary manway studs and nuts were replaced on steam generator \$31301ME089P. A VT-1 examination was performed on all replacement studs and nuts. A UT examination was performed on all replacement geared nuts.

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psia Temp: 546.065 °F

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Mysile Supervising ASME Codes Engineer Date: 1/14, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5/4/9.3 to 1/4/9.4, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 1862 California (National Board, State, Province, and Endorsements)

As Respected by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Southern California Edison Company

Type Code Symbol Stamp: Authorization No: Expiration Date:

3

93021747

40112DSO3

S3-1201-4

GEN-016, Rev. 1

Sheet 1 of 1

Unit:

MO:

P&ID:

RS:

N-5:

N/A N/A N/A

Identification of System:

Work Performed by:

Plant:

(a)

3.

Note:

Reactor Coolant

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" x 8" Nozzle-Type Relief Valve	Crosby	N60061-00-0002	N/A	3PSV9349	1978	Replaced	Yes
6" x 8" Nozzie-Type Relief Valve	Crosby	N60061-00-0001	N/A	MO 92031037	1978	Replacement	Yes

7. Description of Work:

The relief valve in plant position 3P5V9349 was replaced with a tested spare valve (ref. MO 92031037).

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 495.919 psig Temp: N/A

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/5 , 19 95

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6-10-43 to 1-6-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions 1862
(National Board

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 93030293 RS: 086-93

Plant: San Onofre Nuclear Generating Station P&ID: 40112ASO3 (B-7)

P.O. Box 128, San Clemente, CA 92574-0128

N-5: 53-1204-21

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Safety Injection

Authorization No: Expiration Date:

N/A N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Spring Can	ITT Grinnell	S3-SI-003-H-005	N/A	S3S1003H005	N/A	Replaced	No
Spring Can	ITI Gnnnell	Ht. Code A	N/A	RSO 1871-93 SA-36	N/A	Replacement	No

Description of Work:

The spring can listed above was replaced in accordance with NCR 91080152 due to corrosion. All welding was performed in accordance with WR3-93-186. The spring can was visually examined (VT-3) after installation.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Halmis to, A. B. Meichler, Supervising ASME Codes Engineer Date: 3/8 19 94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/10/93 to 3/8/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature / Commissions /862 California (National Board, State, Province, and Endorsements)

Date March 8, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 3

Unit:

MO: RS:

93030294 077-93

San Onofre Nuclear Generating Station Plant:

P&ID: 40112ASO3 (B-7)

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

S3-1204-21

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

(a)

5.

Safety Injection

Authorization No: Expiration Date:

N/A

N/A

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Spring Can	ITT Grinnell	53-SI-004-H-005	N/A	S3S1004H005	N/A	Replaced	No
Spring Can	ITT Grinnell	Ht. Code A	N/A	RSO 1871-93 SA-36	N/A	Replacement	No

Description of Work:

The spring can listed above was replaced in accordance with NCR 91080152 due to corrosion. All welding was performed in accordance with WR3-93-185. The spring can was visually examined (VT-3) after installation.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

mix for A. B. Merchletsupervising ASME Codes Engineer Date: 3/8 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

4774 to 3744, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date March 8, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemesd, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by: Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Steam (1301) Identification of System:

Sheet 1 of 2

Unit:

CWO: 93030750000 93030892000

93030775000 93030895000

93030796000 93030895001

93030808000 93081476000

3-6869.00-0 DCP:

40141DSO3 P&ID:

\$3-1301-1 N-5:

N/A Type Code Symbol Stamp:

Authorization No:

NA

Expiration Date:

NIA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, ASME Section III, Class 2, 1974 Edition, S'74 Addends, ASME Section III, 1974 Edition, S'74 Addends, Subsection 'NC', Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serval No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
34°X4° Waldolet	WFI Nuclear	HT # 599VNF	N/A	Item 25 CWO # 93030750090 DWG # 831301ML363 RSO # 0912-93	N/A	Replacement	No
3/4" Sockolet, 6000#	WFI Nuclear	HT # Z6	N/A	Item 127, 135 CWO # 93030775000 DWG # SO23-503-7-1-730 CR88-007 RSO # 0264-93	N/A	Replacement	No
3/4" Pipe, Sch. 160	Sumitomo	HT # J212229	N/A	Item 128, 130, 132, 134 CWO # 93030775000 DWG # SO23-503-7-1-730 RSO # 0051-93	N/A	Replacement	No

Description of Work: Install 4" weldolet on line 53-1301-ML-363; prefab/install 3HV-8201 bypass line S3-1301-ML-578

Performed welds per the WR5/5A's and WMFCR's attached.

CWO #

ISO/DWG #

WELD LD.

93030750000 93030796000

\$3-1301-ML-363

SA SO23-503-7-1-730 SMB, SMC, SMD, SME, SMK

93030808000

SO23-503-7-1-730 SMF, SMG, SMH, SMJ, SML

93030892000/93030895000/00183-1301-ML-578 D, E, F, G, H, J, K, L, M, N

\$3-\$T-578-H-005 \$A, \$B

Tests Conducted: VT-2 performed on independent CWO 93032378000 to cover requirements of CWO's 93030750000, 93030795000, 93030796000, 93030808000, and 93030895000 - Hydrostatic [X] Pressure: 1380 psig Temp: 69.3°F VT-2 on CWO 93030895001- System Functional [X] Pressure 1000 psia Temp: 545°F VT-2 on CWO 93030750000- System Functional (X) Pressure 1000 psia Temp: 545°F.

FORM NIS-2 (back)

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
	ertify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code, on XI.
Туре	Code Symbol Stamp: N/A
	de Sunt The Designee, Title Buchtel Fieldenst replace March 7, 195
Norw to	CERTIFICATE OF INSPECTION undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ovince of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of cod, Massachusetts have inspected the components described in this Owner's Report during the period 1019 3 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken time measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
exam be lis	instions and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall ble in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this stion. Commissions 1862 California
	Inspector's Signature (National Board, State, Province, and Endorsements) Military 1994
Date	

1. Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

2. Plant: Sa

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by:

Bechtel Construction Company

P.O. Box 450

San Clemente, CA 92674-0128

4. Identification of System:

Steam (1301)

Sheet 2 of 2

Unit: 3

CWO: 93030750000 93030892000

93030775000 93030895000 93030796000 93030895001

93030808000 93081476000

DCP: 3-6869.00-0

P&ID: 40141DSO3

N-5: \$3-1301-1

Type Code Symbol Stamp:

N/A

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

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, ASME Section III, Class 2, 1974 Edition, S'74 Addenda, ASME Section III, 1974 Edition, S'74 Addenda, Subsection 'NC', Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" EII, 90",6000#	Capitol Mfg.	HT # R4C	N/A	Item 129,133 CWO # 93030775000 DWG # SO23-503-7-1-730 CR88-007 RSO # 2539-93	N/A	Replacement	No
90° Ell. 4°	Tectubi	HT # 70687	N/A	Item 3, 4, 5 CWO # 93030892000 DWG # S31301ML578 RSO # 0194-93	N/A	Replacement	No
90° Ell. 4*	Custom Alloy	HT # 8689A	N/A	ltem 6 CWO # 93030892000 DWG # S31301ML578 RSO # 0358-93	N/A	Replacement	No
Pipe, 4°, 8ch. 80	Consolidated	HT # 217240	N/A	Item 7, 8, 9, 10 CWO # 93030892000 DWG # S31301ML578 RSO # 0449-93	N/A	Replacement	No
Weld Cap, 4*, Sch. 80	Tectubi	HT # 26848	N/A	Item 11 CWO # 93030892000 DWG # S31301ML578 RSO # 1437-93	N/A	Replacement	No
Pipe Lugs, I"Thk.	Lukens	SN # C6293	N/A	Item 38 CWO # 93030892000 DWG # \$3\$T578H005 RSO # 1751-93	N/A	Replacement	No
Gate Valve, 3/4" S31301MU1414	Vogt	SN # 19-215315	N/A	Item 131 CWO # 93030775000 DWG # SO23-503-7-1-730 RSO # 4006-86	1986	Replacement	Yes

As Required by the Provisions of the ASPE Code Section X1

Owner: Southern California Edison Company Unit:

Southern California Edison Company Unit: 3
2244 Walinst Grove Avenue, Rosensead, CA 91770 CWO: 930

2244 Waltzut Grove Avenue, Rosenzead, CA 91770 CWO: 93030753000 93030819000 93030792000 93030833000 93030792000 93030833000 93030795000 93030833001 P.O. Box 128, San Clemente, CA 92674-0128 93081476000 93031067000

3. Work Performed by: Bechtel Construction Company P&ID: 40141CSO3

P.O. Box 450 N-5: \$3-1301-2 San Clemente, CA 92674-0128

4. Identification of System: Steam (1301)
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, \$"74 Addends (Piping), ASME Section III, Class 2, 1974 Edition, \$"75 Addends (Valves), ASME Section III, Class 2, 1974 Edition, \$"74 Addends, Subsection "NC", Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yea/No
26"x4" Weldolet	WFI	HT # 599VNF	N/A	Item 18 CWO # 93030753000 DWG # S31301ML583 Sht 1 RSO # 0912-93	N/A	Replacement	No
4*, 90* Ett	Tube Forge	HT # F194	N/A	Item 9.10,11,12 CWO # 93030819000 DWG # S31301ML004 RSO # 1439-93	N/A	Replacement	No
4*. 90* Eli	Custom Alloy	HT # 8689A	N/A	ltem 13 CWO # 93030819000 DWG # 531301ML004 RSO # 0358-93	N/A	Replacement	No
4" Pipe, Sch. 80	Nippon Kokas	HT # N71668	N/A	item 14, 15, 16, 17 CWO # 93050819000 DWO # 531301ML004 RSO # 2469-93	N/A	Replacement	No

Description of Work: Prefac and install bypass line \$3-1301-ML-003, install/complete bypass 3HV-8200, and install 4" weldolet on line \$3-1301-ML583.

Peform welds per the WR5/5A's and WMFCR's.

CWO # DWG # WELD I.D. 90030753000 \$31301ML583 SB 93030792000 502350371730 ST, SU, SV, SW, SMM 93030795000 502350371730 SX. SY, SZ. SMA, SMN 93030833000 \$31301ML004 H. J. K. L. M. N. P(C-1), Q. G \$3\$T004H005 SA. SB

Tests Conducted: VT-2 Test performed on Hydro CWO 93032378000 and covers all requirements of CWO's 93030753, 930130792, 93030795, 93030833 included in this NIS-2. Hydrostatic Test (X) Pressure: 1380 psig Temp: 69.3°F VT-2 Test on CWO 93030753000- System Functional (X), Pressure: 1000 psis, Temp: 545°F, VT-2 Test on CWO 93030833001- System Functional (X), Pressure: 1000 psis, Temp: 545°F.

FORM NIS-2 (back)

Remarks: Documentation for items listed in Block 6 are available on site. CWO 93031067000, dwg. SO23-503-7-1-730, items 118, 120, 124, 126, reconciled to CR-88-007

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed Best 4. Campo - Becktel Hield Conil. Mgs. Date: March 7, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Californie, and employed by Arteright Mutual Insurance Company (Factory Mutual Engineering Association) of Massachusetts have inspected the components described in this Owner's Report during the period 9 to 9/8/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Palarela 8, 1094

ISI Engineer Review: Arun H. Mahindrakan Dees: 3-4-94

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemend, CA 91770

San Onofre Nuclear Generating Station

P.C. Box 128, San Clements, CA 92674-0128

Work Performed by:

Bechtel Construction Company

P.O. Box 450

San Clemente, CA 92674-0128

4. Identification of System:

Steam (1301)

Sheet 2 of 2

Unit:

93030753000 93030819000

93030792000 93030833000

93030795000 93030833001 93081476000 93031067000

DCP: 3-6869.00-0

P&ID: 40141CSO3

N-5: 83-1301-2

Type Code Symbol Stamp: N/A

Authorization No: N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Piping), ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Subsection "NC", Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3"79 Addenda

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

Name of Component	Name of Menufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
4" Weld Cap, Sch. 80	Tectubi	HT # 26848	N/A	Item 18 CWO # 93030819000 DWG # S31301ML004 RSO # 1437-93	N/A	Replacement	No
Pipe Lugs, 1° Thk	Lukens	HT # C6293	N/A	Item 38 CWO # 93030819000 DWG # S3-ST-004-H-005 RSO # 1751-93	N/A	Replacement	No
3/4" Sockolek, 6000#	WFI	HT # 26	N/A	Item 118,126 CWO # 93031067000 DWG # 5023-503-7-1-730 RSO # 0264-93	N/A	Replacement	No
3/4* Pipe, Sch. 160	Sumitomo	HT # J212229	N/A	Item 119, 121, 123, 125 CWO # 93031067000 DWO # 5023-503-7-1-730 RSO # 0051-93	N/A	Replacement	No
90°EII, 3/4°, 6000#	Capitol Mfg.	HT # R4C	N/A	Item 120, 124 CWO # 93031067000 DWG # SO23-503-7-1-730 RSO # 2539-93	N/A	Replacement	No
3/4* Gate Valve 531301MU1411	Vogt	SN # 11-215315	N/A	Item 122 DWG # SO23-503-7-1-730 CWO # 93031067000 RSO # 4006-86	1986		Yes

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: MO:

93041428

Plant:

San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128

183-93 RS: P&ID: 40141DSO3

N-5:

S3-1301-1

Work Performed by:

(b)

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Main Steam

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-5

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 35-6	Pacific Scientific	2669	N/A	S3ST001H014	1978	Replaced	No
29 11/16" Rigid Strut	Lisega	S3-ST-001-H-014 R87D, B336D	N/A	RSO 2622-93	N/A	Replacement	No
Mechanical Snubber PSA 35-6	Pacific Scientific	896	N/A	S3ST001H022E	1978	Replaced	Yes
50" Rigid Strut	Lisega	S3-ST-001-H-022E R724D, G7-1A1	N/A	RSO 2622-93	N/A	Replacement	No
Mechanical Snubber PSA 35-6	Pacific Scientific	3143	N/A	S3ST001H022W	1977	Replaced	Yes
50° Rigid Strut	Lisega	S3-ST-001-H-022W R724D, G7-1A1	N/A	RSO 2622-93	N/A	Replacement	No

Description of Work:

The mechanical snubbers (with attachment hardware) were no longer required per the latest pipe stress analysis and were replaced with rigid struts. VT-3 examinations were performed on the strut assemblies following installation. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 14 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form

FORM NIS-2 (back)

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statem Section XI.	nents made in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp	: N/A
Certificate of Authorization	on No: N/A Expiration Date: N/A
Signed: Owner or Own	File Supervising ASME Codes Engineer Date: 2/25, 199
or Province of California, Norwood, Massachusetts	CERTIFICATE OF INSPECTION g a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of have inspected the components described in this Owner's Report during the period 2/25/94, and state that to the best of my knowledge and belief, the Owner has and taken corrective measures described in this Owner's Report in accordance with the requirements of CI.

As Required by the Provisious of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1301-1

Sheet 1 of 1

MO:

RS:

P&ID:

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

93041429

40141DSO3

192-93

Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-5

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Southern California Edison Company

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

Main Steam

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Gode Stamped Yes/No
Mechanical Snubber PSA 35-6	Pacific Scientific	2668	N/A	S3ST001H031	1978	Replaced	No
27%" Rigid Strut	Lisega	S3-ST-001-H-031 AR76D, B336D	N/A	RSO 2622-93	N/A	Replacement	No
Rear Brackets (2) w/Load Pins	Lisega	Hr. B341D Z45	N/A	RSO 2820-93	N/A	Replacement	No

Description of Work:

Plant:

Work Performed by:

Identification of System:

The mechanical snubber (with attachment hardware) listed above was no longer required per the latest pipe stress analysis and was replaced with a rigid strut. The work scope also included the replacement of both rear brackets and load pins. A VT-3 examination was performed on the strut assembly following installation. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

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

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (back)

9.	Remarks	The Lisega strut and attachment hardware were fabricated from DIN materials and certified by the manufacturer as meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.
		- (Applicable Manufacturer's Data Reports to be attached)
T		CERTIFICATE OF COMPLIANCE
	We certify that Section XI.	the statements made in the report are correct and this replacement conforms to the rules of the ASME Code,

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 2/25 , 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/43/93 to 2/25/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions 1862

(National Board, State, Province, and Endorsements)

Date 711, 25, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Southern California Edison Company

Type Code Symbol Stamp:

3

93041430

40141DSO3

S3-1301-1

183-93

N/A

Work Performed by: Identification of System:

3.

Authorization No:

Sheet 1 of 1

Unit:

MO:

RS:

N-5:

P&ID:

N/A

Main Steam

Expiration Date:

N/A

(a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 35	Pacific Scientific	5823	N/A	S3ST363H002	N/A	Replaced	Yes
291/4" Rigid Strut	Lisega	S3-ST-363-H-002 R723D, G7-1A1	N/A	RSO 2622-93	N/A	Replacement	No

Description of Work:

The mechanical snubber (with attachment hardware) was no longer required per the latest pipe stress analysis and was repraced with a rigid strut. A VT-3 examination was performed on the strut assembly following installation. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

FORM NIS-2 (back)

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that th Section XI.	e statements made in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbo	d Stamp: N/A
Certificate of Auth	horization No: N/A Expiration Date: N/A
/	2,011
Signed: 64	Mailel , Supervising ASME Codes Engineer Date: 2/25 19
Owner	or Owner's Designee, Title
	CERTIFICATE OF INSPECTION
I, the undersigned	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stu
or Province of <u>Ca</u> Norwood, Massac	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the Sta lifornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period
or Province of Ca Norwood, Massac	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sulfornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period to 255744, and state that to the best of my knowledge and belief, the Owner has
or Province of Ca Norwood, Massac performed examin	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stalifornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period to the factory of the Owner and state that to the best of my knowledge and belief, the Owner has nations and taken corrective measures described in this Owner's Report in accordance with the requirements of
or Province of Ca Norwood, Massac	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stalifornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period to the factory of the Owner and state that to the best of my knowledge and belief, the Owner has nations and taken corrective measures described in this Owner's Report in accordance with the requirements of
or Province of Ca Norwood, Massac performed examin the ASME Code, S By signing this of	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stalifornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period to the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has nations and taken corrective measures described in this Owner's Report in accordance with the requirements of Section XI.
or Province of Ca Norwood, Massac performed examin the ASME Code, S By signing this of examinations and	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stalifornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has nations and taken corrective measures described in this Owner's Report in accordance with the requirements of Section XI. Terrificate, 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 s
or Province of Ca Norwood, Massac performed examin the ASME Code, S By signing this c examinations and be liable in any m	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the Stalifornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has nations and taken corrective measures described in this Owner's Report in accordance with the requirements of Section XI.
or Province of Ca Norwood, Massac performed examin the ASME Code, S By signing this c examinations and	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stalifornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has nations and taken corrective measures described in this Owner's Report in accordance with the requirements of Section XI. Terrificate, 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 s
or Province of Ca Norwood, Massac performed examin the ASME Code, S By signing this c examinations and be liable in any m	d holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stalifornia, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of thusetts have inspected the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has nations and taken corrective measures described in this Owner's Report in accordance with the requirements of Section XI. Terrificate, 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 s

As Required by the Provinious of the ASMK Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Main Steam

Sheet 1 of 1

Unit:

MO: 93041435

3

93111134

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

193-93 287-93

P&ID:

RS:

3. Work Performed by:

Identification of System:

4.

Southern California Edison Company

40141DSO3

N-5:

53-1301-1

Type Code Symbol Stamp: Authorization No:

N/A N/A

Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 574 Addenda, Code Cases: 1644

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	8289	N/A	S3ST580H002	N/A	Replaced	Yes
521/4" Rigid Strut	Lisega	S3-ST-580-H-002 R88D, B336D	N/A	RSO 2622-93	N/A	Replacement	No
Rear Brackets (2)	Lisega	Ht. Z45, AS7A2, Z35D	N/A	RSO 2820-93	N/A	Replacement	No

Description of Work:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was replaced with a rigid strut. The rear bracket were also replaced, but first required the machining of the end paddles to allow installation. The installation was in accordance with WR3-93-484. A VT-3 examination was performed on the strut assembly following installation. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be information in Items 1 through 6 on this report is included on each she sheets is recorded at the top of this form.

rovided (1) size is 8 1/4 in. x 11 in., (2) d (3) each sheet is numbered and the number of

FORM NIS-2 (back)

9.	Remarks:	e Lisega strut and attachment hardware were fabricated from DIN materials and certified by the manufacturer as eting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III pendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.	
		- (Applicable Manufacturer's Data Reports to be attached)	
-			-

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

9/13/43

to 2/25/94

and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the

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

Inspector's Signature Commissions /862 California (National Board, State, Province, and Endorsements)

Date Feb. 25, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 93041455

3

2 Plant: San Onofre Nuclear Generating Station RS: 182-93 P&ID: 40141DSO3

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1301-1

Work Performed by: 3

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System: 4

Main Steam

Authorization No: Expiration Date:

N/A

5.

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Spring Hanger Assembly	Grinnell	Ht. C-268	N/A	S257001H013A	N/A	Permanently Deleted	No
Spring Hanger Assembly	Grinnell	Ht. C-268	N/A	S3ST001H013B	N/A	Permanendy Deleted	No

7. Description of Work:

The spring hangers listed above were no longer required per the latest pipe stress analysis and were permanently removed.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet ir numbered and the number of sheets is recorded at the top of this form.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

AMALIA Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/13/93 to 9/17/944, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 421. 17, 1994

As Required by the Provinces of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit

MO:

93041457

San Onofre Nuclear Generating Station

RS: P&ID: 182-93

Plant:

P.O. Box 128, San Clemente, CA 92674-0128

40141DSO3 S3-1301-1 N-5:

(b)

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Work Performed by:

Main Steam

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None 5.

Identification of Components Repaired or Replaced and Replacement Components:

Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is th	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
	Spring Hanger Assembly	Grinnell	Fig. B-268	N/A	S3ST001H029	N/A	Permanently Deleted	No

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Description of Work:

The spring hanger listed above was no longer required per the latest pipe stress analysis and was permanently removed.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Leservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 12/26 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-43-93 to 2-28-93, and state that to the best of my knowledge and belief, the Owner has

performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Que, 28, 1993

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Owner: Southern California Edison Company Unit: MO:

2244 Wainut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by:

Southern California Edison Company Type Code Symbol Stamp: Authorization No:

3

RS:

N-5:

P&ID:

93041472

40114BSO3

N/A

N/A

N/A

S3-1206-1

182-93

Identification of System: Containment Spray Expiration Date:

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

(a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-5

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Paracement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 3-5	Pacific Scientific	3341	N/A	S3CS004H006	1977	Permanently Deleted	Yes

Description of Work:

Plant:

(b)

The mechanical snubber (with attachment hardware) listed above was no longer required per the latest pipe stress analysis and was permanently deleted. The removed snubber was placed into the rebuild program.

References: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 1/22 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engi vering Association) of Norwood, Massachuserts have inspected the components rescribed in this Owner's Report during the period of 1999, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions 1862 California (National Poard, State, Province, and Endorsements)

Date Jan. 25, 1994

As Responsed by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Owner: Southern California Edison Company Unit 3 93041475 2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 182-93 RS: San Onofre Nuclear Generating Station P&ID: 40114BSO3 Plant: N-5: S3-1206-4 P.O. Box 128, San Clemente, CA 92674-0128

3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Authorization No: N/A
4. Identification of System: Containment Spray Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addersda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	11720	N/A	S3CS004H056	1980	Permanently Deleted	No

Description of Work:

Note:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was permanently removed. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: N/A Temp: N/A

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 12/26 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-9-93 to 12-28 43, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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)

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Southern California Edison Company

Type Code Symbol Stamp:

93041478

40114BSO3

S3-1206-1

182-93

N/A

Identification of System: Containment Spray

Authorization No: Expiration Date:

Sheet 1 of 1

Unit:

MO:

RS:

P&ID:

N-5:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-5 5. (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
fechanical Snubber SA 3-5	Pacific Scientific	6979	N/A	53CS004H007	1979	Permanently Deleted	Yes

Description of Work:

Work Performed by:

The mechanical snubber (with attachment hardware) listed above was no longer required per the latest pipe stress analysis and was permanently deleted. The removed snubber was placed into the rebuild program.

References: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 1/2 z 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period to 1/24/94, and state that to the best of my knowledge and belief, the Owner has

performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions 1862
(National Board, State, Proving

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

3 MO:

Sheet 1 of 1

2244 Walnut Grove Avenue, Rosemead, CA 91770

93041484 RS: 183-93

Plant: San Onofre Nuclear Generating Station

40114BSO3 P&ID:

P.O. Box 128, San Clemente, CA 92674-0128

N-S: S3-1206-1

Work Performed by: Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Containment Spray

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 574 Addenda, Code Cases: 1644-5

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 3-5	Pacific Scientific	8082	N/A	S3CS004H002	1979	Replaced	Yes
18¼" Rigid Strut	Lisega	S3-CS-004-H-002 R422D, G531, G5-33	N/A	RSO 2622-93	N/A	Replacement	No
Mechanical Snubber PSA 3-5	Pacific Scientific	13645	N/A	\$3CS004H043	N/A	Replaced	No
37% Rigid Strut	lisega	S3-CS-004-H-043 R524D, G5-33	N/A	RSO 2622-93	N/A	Replacement	No

Description of Work:

The mechanical snubbers (with attachment hardware) were no longer required per the latest pipe stress analysis and were replaced with rigid struts. VT-3 examinations were performed on the strut assemblies following installation. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: The Lisega struts and attachment hardware were fabricated from DIN materials and certified by the manufacturer as meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

Supervising ASME Codes Engineer Date: 2/25 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

9/8/43 to 2/025/944, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 /862 (National Board,

California

(National Board, State, Province, and Endorsements)

Date FlA 25, 1994

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit:

MO: RS:

93041537 182-93

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID:

N-5:

40114BSO3 83-1206-1

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Containment Spray

Authorization No: Expiration Date:

N/A N/A

(a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: See Block 6

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	11140	N/A	S3CS004H014	N/A	Permanently Deleted	No
Mechanical Snubber PSA 3-5	Pacific Scientific	3637	N/A	S3CS004H053 Code Case 1644-5	1977	Permanently Deleted	Yes
Mechanical Snubber PSA 3-5	Pacific Scientific	5320	NA	S3CS004H054 Code Case 1644-S	1978	Permanently Deleted	Yes

Description of Work:

The mechanical snubbers listed above were no longer required per the latest pipe stress analysis and were permanently removed. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: /2/26 ,1997

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-7-93 to 12-28-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3

San Onofre Nuclear Generating Station

93041543 MO: RS: 189-93

40114BSO3 P&ID:

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1206-1

Type Code Symbol Stamp:

N/A

Work Performed by:

Southern California Edison Company

Authorization No:

N/A

Identification of System:

Containment Spray

Expiration Date:

N/A

(a)

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-5

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1	Pacific Scientific	3103	N/A	S3CS004H028	1976	Replaced	Yes
3044" Rigid Strut	Lisega	S3-CS-004-H-023 R317D, G3-3123	N/A	RSO 2622-93	N/A	Replacement	No
Rear Brackets w/Pin (2)	Lisega	Ht. AS315, Z218	N/A	RSO 2820-93	N/A	Replacement	No

Description of Work:

The mechanical snubber (with attachment hardware) listed above was no longer required per the latest pipe stress analysis and was replaced with a rigid strut. The rear brackets were also replaced. A VT-3 examination was performed on the strut assembly following installation. The removed snubber was placed into the rebuild program.

References: MMP 3-6683.03SP, WR3-93-481

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

Note:

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

Meeting a comparable Appendix 1, or in Code	SME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASI Case N-71 or N-249 for use in NF pipe support application.	ME III
- (A)	plicable Manufacturer's Data Reports to be attached)	
	CERTIFICATE OF COMPLIANCE	
We certify that the statements made in t Section XI.	e report are correct and this <u>replacement</u> conforms to the rules of the ASME Co	de,
Type Code Symbol Stamp: N/A		
Certificate of Authorization No: N/A	Expiration Date: N/A	
Signed: Owner or Owner's Designee,	Supervising ASME Codes Engineer Date: 2/25	19
	CERTIFICATE OF INSPECTION	
or Province of <u>California</u> and employed Norwood, <u>Massachusetts</u> have inspected	certificate of inspection ssion issued by the National Board of Boiler and Pressure Vessel Inspectors and by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association the components described in this Owner's Report during the period (GH), and state that to the best of my knowledge and belief, the Owner has crive measures described in this Owner's Report in accordance with the requirem	on) of
performed examinations and taken corn the ASME Code, Section XI. By signing this certificate, neither the	ssion issued by the National Board of Boiler and Pressure Vessel Inspectors and by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association the components described in this Owner's Report during the period	on) of nents of the over s

Date 7.16. 25, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: 3 MO: 93041551 RS: 183-93

2. Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: 40114BSO3 N-5: S3-1206-1

Work Performed by: Southern California Edison Company
 Type

Type Code Symbol Stamp:

N/A N/A

4. Identification of System:

Containment Spray

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

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-5

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	1595	N/A	S3CS004H048E	1977	Replaced	Yes
14½" Rigid Strut	Lisega	S3-CS-004-H-048E R317D, G3-312	N/A	RSO 2622-93	N/A	Replacement	No
Mechanical Snubber PSA 1-4	Pacific Scientific	1597	N/A	S3CS004H048W	1977	Replaced	Yes
14½" Rigid Strut	Lisega	S3-CS-004-H-048W R317D, G3-312	N/A	RSO 2622-93	N/A	Replacement	No

Description of Work:

The mechanical snubbers (with attachment hardware) were no longer required per the latest pipe stress analysis and were replaced with rigid struts. VT-3 examinations were performed on the strut assemblies following installation. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

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

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

	Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.
	(Applicable Manufacturer's Data Ret (75 to be attached)
	CERTIFICATE OF COMPLIANCE
Vic certify the Section XI.	nat the statements made in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code S	ymbol Stamp: N/A
Certificate o	f Authorization No: N/A Expiration Date: N/A
Signed:O	Of Office Supervising ASME Codes Engineer Date: 2/25 19 9
or Province Norwood, M performed e	CERTIFICATE OF INSPECTION signed holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Cassachusetts have inspected the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has xaminations and taken corrective measures described in this Owner's Report in accordance with the requirements of ode, Section XI.
examination	this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the s and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall any manner for any personal injury or property ange or a loss of any kind arising from or connected with this
	Commissions 162 California (National Board, State, Province, and Endorsements)
Insp	

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Unit: 3 93041562 MO:

Sheet 1 of 1

2244 Walnut Grove Avenue, Rosemead, CA 91770

RS: 183-93

San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128 P&ID: 40114BSO3 N-5: S3-1206-1

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A

Identification of System:

Containment Spray

Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-5

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	33868	N/A	S3CS031H003	1984	Replaced	Yes
12%" Rigid Strut	Lisega	\$3-CS-031-H-003 R213D, G2-111	N/A	RSO 2622-93	N/A	Replacement	No

Description of Work:

The mechanical snubber (with attachment hardware) was no longer required per the latest pipe stress analysis and was replaced with a rigid strut. A VT-3 examination was performed on the strut assembly following installation. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: The Lisega strut and attachment hardware were fabricated from DIN materials and certified by the manufacturer as meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: Z/25 1954

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 979/93 to 265/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions 1862

(National Board, State, Province, and Endorsements)

Date Feb. 25, 1994

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1
Unit: 3
2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 93041588

| RS: 183-93 |
| Plant: | San Opofre Nuclear Generating Station | P&ID: 40122BSO3 |
| P.O. Box 128, San Clemente, CA 92674-0128 | N-5: S3-1219-3

3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Authorization No: N/A
4. Identification of System: Puel Pool Cooling Expiration Date: N/A

(a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1-4	Pacific Scientific	11120	N/A	S3FS057H098B	N/A	Replaced	No
131/2" Rigid Strut	Lisega	S3-FS-057-H-098B R317D, G3-312	N/A	RSO 2622-93	N/A	Replacement	No
Mechanical Snubber PSA 1-4	Pacific Scientific	12791	N/A	S3FS057H098T	N/A	Replaced	No
131/4" Rigid Strut	Lisega	S3-FS-057-H-098T R317D, G3-312	N/A	RSO 2622-93	N/A	Replacement	No

7. Description of Work:

The mechanical snubbers (with attachment hardware) were no longer required per the latest pipe stress analysis and were replaced with rigid struts. VT-3 examinations were performed on the strut assemblies following installation. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: N/A Temp: N/A

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

9.	Remarks:	The Lisega struts and attachment hardware were fabricated from DIN materials and certified by the manufacturer as
		meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III
		Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 2/25 , 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

to Hamber and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions 1862 California

(National Board, State, Province, and Endorsements)

Date 716, 25, 1994

As Required by the Provisious of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3

MO:

RS: P&ID: 93041614 182-93 40124BSO3

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1208-10

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Chemical and Volume Control

(a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-5

Expiration Date:

N/A

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	1591	N/A	S3VC007H010	1977	Permanently Deleted	Yes

Description of Work:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was permanently removed. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

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

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/26, 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-13-93 to 12-28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 /862 California (National Board, State, Province, and Endorsements)

Date Que 28, 1993

As Required by the Provinces of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 93041627 RS: 197-93

Plant: San Onofre Nuclear Generating Station P&ID: 40124RSO3

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1208-10

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A N/A

Identification of System:

Work Performed by:

Chemical and Volume Control

Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Sway Strut	Grinnell	S3-VC-007-H-017	N/A	S3VC007H017	N/A	Replaced	No
3244" Rigid Strut	Lisega	S3-VC-007-H-017 R213D, G2-111	N/A	RSO 2622-93	N/A	Replacement	No
Rear Bracket w/Pin (2)	Lisega	Hr. AS214, Z218, Z55	N/A	RSO 2820-93	N/A	Replacement	No

Description of Work:

The sway strut (with attachment hardware) was 10 longer required per the latest pipe stress analysis and was replaced with a rigid strut. A VT-3 examination was performed on the strut assembly following installation.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other []. Pressure: N/A Temp: N/A

Note:

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

Remarks: The Lisega strut and attachment hardware were fabricated from DIN materials and certified by the manufacturer as meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III Appendix I, or in Code Case N-71 or N-249 for use in NF pipe support applications.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 2/25, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/15/93 to 3/25/94 and state that to the best of my knowledge and belief, the Owner has

performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions 1862

California

(National Board, State, Province, and Endorsements)

Date Feb. 25. 1994

As Required by the Provisions of the ASME Code Section III

Sheet 1 of 1

3

93041938

Southern California Edison Company Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770 MO:

2. Plant: San Onofre Nuclear Generating Station P&ID: 40141ASO3
P.O. Box 128, San Gemente, CA 92674-0128 N-5: S3-1301-2

3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Authorization No: N/A

4. Identification of System: Main Steam Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: See Block 6

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA M	Pacific Scientific	9202	N/A	S3ST016H704	N/A	Permanently Deleted	No
Mechanical Snubber PSA 3	Pacific Scientific	3628	N/A	S3ST016H714 Code Case 1644-5	1977	Permanently Deleted	Yes
Mechanical Snubber PSA 10	Pacific Scientific	11080	N/A	S3ST016H727	N/A	Permanently Deleted	No
Mechanical Snubber PSA 1	Pacific Scientific	11723	N/A	S3ST016H731	N/A	Permanently Deleted	No

Description of Work:

Note:

Owner:

The mechanical snubbers listed above were no longer required per the latest pipe stress analysis and were permanently removed. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

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

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-13-93 to 1-17-94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Respaired by the Provisions of the ASME Code Section XI

Sheet 1 of 1

Unit:

3 MO: 93041939

RS:

183-93

San Onofre Nuclear Generating Station

Southern California Edison Company

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: N-5:

40141ASO3 S3-1301-2

Work Performed by:

Plant:

(a)

Southern California Edison Company

Type Code Symbol Stamp:

N/A N/A

Identification of System:

Main Steam

2244 Walnut Grove Avenue, Rosemead, CA 91770

Authorization No:

Expiration Date:

N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 574 Addenda, Code Cases: 1644-5

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 3	Pacific Scientific	5202	N/A	S3ST016H706	1978	Replaced	Yes
31" Rigid Strut	Lisega	S3-ST-016-H-706 R424D, G5-33	N/A	RSO 2622-93	N/A	Replacement	No
Mechanical Snubber PSA 1	Pacific Scientific	11716	N/A	S3ST016H716	N/A	Replaced	No
371/a" Rigid Strut	Lisega	S3-ST-016-H-716 R317D, G3-3123	N/A	RSO 2622-93	N/A	Replacement	No

Description of Work:

The mechanical snubbers (with attachment hardware) were no longer required per the latest pipe stress analysis and were replaced with rigid struts. VT-3 examinations were performed on the strut assemblies following installation. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: The Lisega struts and attachment hardware were fabricated from DIN materials and certified by the manufacturer as meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Owner or Owner's Designee,

Supervising ASMF Codes Engineer Date: 2/25 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 115/93 to 2/25/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 78, 25, 195

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

Southern California Edison Company Owner: Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

93041940 MO: RS: 195-93, Rev. 1

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

40141ASO3 P&ID:

S3-1301-2 N-S:

Southern California Edison Company

Type Code Symbol Stamp:

Work Performed by: Identification of System:

Main Steam

Authorization No: Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	9174	N/A	S3ST016H701	1980	Replaced	No
Mechanical Snubber PSA 1	Pacific Scientific	25760	N/A	RSO 1704-86	1986	Replacement	No
3" Pipe Clamp Assembly	Pacific Scientific	Ht. PS25356	N/A	RSO 3057-92	N/A	Replacement	No
Rear Bracket w/Pin	Pacific Scientific	Ht. N2249E N2960B	N/A	RSO 2860-90	N/A	Replacement	No
Forward Bracket	Pacific Scientific	Ht. N-2575-G	N/A	RSO 0345-87	N/A	Replacement	No
Forward Bracket Bolts	Pacific Scientific	Ht. N-2689-E	N/A	RSO 0345-87	N/A	Replacement	No

Description of Work:

The mechanical snubber (with attachment hardware) listed above was replaced with a larger snubber (PSA 1) in accordance with MMP 3-6683.03SP. The mounting hardware was also replaced to accommodate the larger snubber. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

References: MMP 3-6683.03SP, WR3-93-450

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

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

Remarks: All replacement items were certified to ASME III, Class 1. CR-88-005 reconciles the pipe clamp assembly certified to 1980 Edition, W82 Addenda. CR-88-001 reconciles the forward bracket and bolts certified to 1974 Edition, S'76 Addenda.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

ABM Supervising ASME Codes Engineer Date: Feb. Z 1994

Owner or Owner's Designer, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

9/15/13 to 2/14/4, and state that to the best of my knowledge and belief, the Owner has
performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

the ASME Code, Section XI.

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

Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date £6. 2, 1994

As Required by the Provisions of the ASME Code Section XI

Southern California Euson Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 3

Unit: MO:

93041942 182-93

San Onofre Nuclear Generating Station

P.O. Box 128, Sar. Clemente, CA 92674-0128

RS: P&ID: N-5:

40141FSO3 S3-1301-1

Work Performed by:

Plant:

2

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Main Steam

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA ¼	Pacific Scientific	13777	N/A	S3ST001H059	N/A	Permanently Deleted	No

Description of Work:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was permanently removed. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

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

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Mediciale Supervising ASME Codes Engineer Date: 12/26 1923

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massinchuserts have inspected the components described in this Owner's Report during the period 9-14-93 to 12-28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Que . 28, 1993

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by:

Southern California Edison Company

Identification of System: Main Steam Type Code Symbol Stamp:

Sheet 1 of 1

Unit:

MO: RS:

P&ID:

N-5:

Authorization No: Expiration Date:

93041943

40141FSO3

S3-1301-1

183-93

N/A N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Manufacturer	Manufacturer Serial (o.	National Board No.	Other Identification	Year Built	Replaced, or Replacement	ASME Code Stamped Yes/No
Pacific Scientific	36910	N/A	S3ST001H060	N/A	Replaced	No
Lisega	S3-ST-001-H-060 R213D, G2-111	N/A	RSO 2622-93	N/A	Replacement	No
Pacific Scientific	9224	N/A	S3ST001H062	N/A	Replaced	No
Lisega	S3-ST-001-H-062 D209D, G2-21	N/A	RSO 2322-93	N/A	Replacement	No
Pacific Scientific	11715	N/A	S3ST001H065	N/A	Replaced	No
Lisega	S3-ST-001-H-065 R317D, G3-3123	N/A	RSO 2622-93	N/A	Replacement	No
	Pacific Scientific Lisega Pacific Scientific Lisega Pacific Scientific	Manufacturer Serial fo. Pacific Scientific 36910 Lisega S3-ST-001-H-060 R213D, G2-111 Pacific Scientific 9224 Lisega S3-ST-001-H-062 D209D, G2-21 Pacific Scientific 11715 Lisega S3-ST-001-H-065	Manufacturer Serial o. Board No. Pacific Scientific 36910 N/A Lisega \$3-\$T-001-H-060 N/A R213D, G2-111 N/A Pacific Scientific 9224 N/A Lisega \$3-\$T-001-H-062 N/A Pacific Scientific 11715 N/A Lisega \$3-\$T-001-H-065 N/A	Manufacturer Serial To. Board No. Identification Pacific Scientific 36910 N/A S3ST001H060 Lisega S3-ST-001-H-060 R213D, G2-111 N/A RSO 2622-93 RST001H062 Pacific Scientific 9224 N/A RSO 2322-93 RST001H062 Lisega S3-ST-001-H-062 D209D, G2-21 N/A RSO 2322-93 RST001H065 Lisega S3-ST-001-H-065 RST-001-H-065 N/A RSO 2622-93	Manufacturer Serial fo. Board No. Identification Built Pacific Scientific 36910 N/A S3ST001H060 N/A Lisega S3-ST-001-H-060 R213D, G2-111 N/A RSO 2622-93 R213D, G2-111 N/A Pacific Scientific 9224 N/A S3ST001H062 N/A Lisega S3-ST-001-H-062 D209D, G2-21 N/A RSO 2322-93 R/A N/A Lisega S3-ST-001-H-065 R/A N/A RSO 2622-93 R/A N/A	Name of Manufacturer Serial o. Board No. Identification Built Replaced, or Replacement Pacific Scientific 36910 N/A S3ST001H060 N/A Replacement Lisega S3-ST-001-H-060 N/A RSO 2622-93 N/A Replacement Pacific Scientific 9224 N/A S3ST001H062 N/A Replacement Lisega S3-ST-001-H-062 N/A RSO 2322-93 N/A Replacement D209D, G2-21 N/A S3ST001H065 N/A Replacement Lisega S3-ST-001-H-062 N/A RSO 2622-93 N/A Replacement Lisega S3-ST-001-H-065 N/A RSO 2622-93 N/A Replacement

Description of Work:

The mechanical snubbers (with attachment hardware) were no longer required per the latest pipe stress analysis and were replaced with rigid struts. VT-3 examinations were performed on the strut assemblies following installation. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

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

Remarks: The Lisega struts and attachment hardware were fabricated from DIN materials and certified by the manufacturer as meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 2/25, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/15/93 to 9/25/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions 1862

(National Board, State, Province, and Endorsements)

Date 76, 25, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company Unit:

Southern California Edison Company Unit: 3
2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 93041944

2. Plant: San Onofre Nuclear Generating Station P&ID: 40113BSO3
P.O. Box 128, San Gemente, CA 92674-0128 N-5: S3-1204-3

3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Authorization No: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, 574 Addenda, Code Cases: 1644

Expiration Date:

N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Safety Injection

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/2	Pacific Scientific	9216	N/A	S3SI065H042	1978	Replaced	No
974" Rigid Strut		S3-SI-065-H-042 D209D, G2-21	N/A	RSO 2622-93	N/A	Replacement	No

7. Description of Work:

The mechanical snubber (with attachment hardware) was no longer required per the latest pipe stress analysis and was replaced with a rigid strut. A VT-3 examination was performed on the strut assembly following installation. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

Identification of System:

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

Remarks: The Lisega strut and attachment hardware were fabricated from DIN materials and certified by the manufacturer as meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Lel Supervising ASME Codes Engineer Date: 2/25 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1973 to 25594, and state that to the best of my knowledge and belief, the Owner has

performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions 186.2 California

(National Board, State, Province, and Endorsements)

Date 76, 25, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 93042050

Plant: San Onofre Nuclear Generating Station P&ID: 40114ASO3
P.O. Box 128, San Clemente, CA 92674-0128 N-5: S3-1204-34

Work Performed by: Southern California Edison Company Type Code Symbol Stamp:

4. Identification of System: Containment Spray Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-5

N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1	Mechanical Snubber SA 1/4	Pacific Scientific	2292	N/A	S3CS020H003	1977	Permanently Deleted	Yes

Description of Work:

Note:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was permanently removed. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

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

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

		rks:		

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 12/26, 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-9-95 to 22-28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Dec. 28, 1993

As Required by the Provinces of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3

MO: 93042132 RS: 182-93

San Opofre Nuclear Generating Station 2 Plant:

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: 40112BSO3 N-5: S3-1204-34

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

5.

Authorization No:

N/A

Safety Injection

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None (a)

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	9186	N/A	S3SI132H002	1980	Permanently Deleted	No

Description of Work:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was permanently removed. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: ///4 1954

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-9-93 to 1-17-94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions 1862
(National Board,

(National Board, State, Province, and Endorsements)

As Responsed by the Provisions of the ASMs, Lode Section XI

Southern California Edison Company Owner:

MO:

Sheet 1 of 1 Unit: 3

2244 Walnut Grove Avenue, Rosemea.' CA 91770

93042134 183-93 RS:

San Onofre Nuclear Generating Station

P&ID:

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

40114ASO3 S3-1206-34

Work Performed by:

Plant:

3.

Southern California Edison Company

Type Code Symbol Stamp:

N/A

4. Identification of System:

Authorization No:

N/A

Containment Spray

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 5'74 Addenda, Code Cases: 1644-5 (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 879 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Cude Stamped Yes/No
Mechanical Snubber PSA 14	Pacific Scientific	3565	N/A	S3CS020H001	1978	Replaced	Yes
914" Rigid Strut	Lisega	S3-CS-020-H-001 D209D, G2-21	N/A	RSO 2622-93	N/A	Replacement	No

Description of Work:

The mechanical snubber (with attachment hardware) was no longer required per the latest pipe stress analysis and was replaced with a rigid strut. A VT-3 examination was performed on the strut assembly following installation. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

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

Note:

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

Remarks: The Lisega strut and attachment hardware were fabricated from DIN materials and certified by the manufacturer as meeting a comparable ASME or ASTM material specified either in the 1974 Edition, S'74 Addenda of ASME III Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support applications.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 2/25 1999

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

1919 4 to 2015 94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

California

(National Board, State, Province, and Endorsements)

Date 716, 25, 1994

As Required by the Provisions of the ASMN Code Section XI

Sheet 1 of 1 Southern California Edison Company Treit: Owner: 2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 93042135 RS: 182-93 San Onofre Nuclear Generating Station 40111BSO3 Plant: P&ID: P.O. Box 128, San Clemente, CA 92674-0128 N-5: S3-1212-13

3. Work Performed by: Southern California Edizon Company Type Code Symbol Stamp: N/A
Authorization No: N/A
4. Identification of System: Reactor Coolant Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	15117	N/A	S3RC094H009	1980	Permanently Deleted	No

Description of Work:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was permanently removed. The removed snubber was placed into the rebuild program.

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

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/26 , 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-9-93 to 2-28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Respected by the Provisions of the ASME Code Section XI

Sheet 1 of 1
Unit: 3
2244 Walnut Grove Avenue, Rosemead, CA 91770
MO: 93042136
RS: 182-93

Plant: San Onofre Nuclear Generating Station P&ID: 40111BSO3
 P.O. Box 128, San Clemente, CA 92674-0128 N-5: S3-1201-11

3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Authorization No: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, C74 Addenda, Code Cases: 1644

Expiration Date:

N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Reactor Coolant

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA ¼	Pacific Scientific	13988	N/A	S3RC096H025	1980	Permanently Deleted	No

Description of Work:

Identification of System:

4.

Note:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was permanently removed. The removed snubber was placed into the rebuild program.

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

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: Al Mailel Supervising ASME Codes Engineer Date: 12/26 1923

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-9-93 to 28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section 21

1. Owner: Southern California Edison Company Unit: 3
2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 93042139
RS: 182-93

Plant: San Onofre Nuclear Generating Station P&ID: 40141ASO3
P.O. Box 128, San Clemente, CA 92674-0128 N-5: S3-1301-2

3. Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A
Authorization No: N/A
4. Identification of System: Main Steam Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 574 Addenda, Code Cases: See Block 6

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA ¼	Pacific Scientific		N/A	S3ST018H702	N/A	Permanently Deleted	No
Mechanical Snubber PSA 1/4	Pacific Scientific	3998	N/A	S3ST018H706 Code Case 1644-6	1977	Permanently Deleted	Yes
Mechanical Snubber PSA 1/4	Pacific Scientific	4140	N/A	S3ST018H707	N/A	Permanently Deleted	No
Mechanical Snubber PSA 14	Pacific Scientific	6373	N/A	S3ST018H713 Code Case 1644-5	1978	Permanently Deleted	Yes
Mechanical Snubber PSA ¼	Pacific Scientific	36774	N/A	S3ST018H722	N/A	Permanently Deleted	No
Mechanical Snubber PSA 1/4	Pacific Scientific	3839	N/A	S3ST018H723 Code Case 1644-5	1977	Permanently Deleted	Yes

Description of Work:

The mechanical snubbers listed above were no longer required per the latest pipe stress analysis and were permanently removed. The removed snubbers were placed into the rebuild program.

Reference: MMP 3-6683.03SP

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

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/26 , 1997

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2/14/33 to 12/16/33 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 1574 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: 3 MO: 93042140

Plant: San Onofre Nuclear Generating Station RS: 183-93

P&ID: 40141ASO3

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1301-2

Sheet 1 of 1

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Main Steam

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S"79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	15112	N/A	S3ST018H709	N/A	Replaced	No
12" Rigid Strut	Lisega	S3-ST-018-H-709 D209D, G2-21	N/A	RSO 2622-93	N/A	Replacement	No

Description of Work:

The mechanical snubber (with attachment hardware) was no longer required per the latest pipe stress analysis and was replaced with a rigid strut. A VT-3 examination was performed on the strut assembly following installation. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

	pplicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statements made in Section XI.	the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp: N/A	
Certificate of Authorization No: N/A	Expiration Date: N/A
13.11	1
Owner or Owner's Designee,	Supervising ASME Codes Engineer Date: 2/25, 19
I, the undersigned holding a valid comm	CERTIFICATE OF INSPECTION dission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of the company described in this Owner's Report during the period
Norwood, Massachuserts have inspected	the components described in this Owner's Report during the period of the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has entire measures described in this Owner's Report in accordance with the requirements of
Norwood, Massachuserts have inspected	94, and state that to the best of thy knowledge and belief, the Owner has ective measures described in this Owner's Report in accordance with the requirements of
Norwood, Massachusetts have inspected to July performed examinations and taken corn the ASME Code, Section XI. By signing this certificate, neither the examinations and corrective measures d	Inspector nor his employer makes any warranty, expressed or implied, concerning the escribed in this Owner's Report, expressed or implied, concerning the escribed in this Owner's Report. Furthermore, neither the Inspector nor his employer shipling or property damage or a loss of any kind arising from or connected with this Commissions (862 California

As Respaired by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

P.O. Box 128, San Clemente, CA 92674-0128

San Onofre Nuclear Generating Station

Sheet 1 of 1

Unit:

MO:

RS:

93042170 182-93

P&ID:

40112CSO3

N-5:

S3-1204-32

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Safety Injection

Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-5

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4	Pacific Scientific	1827	N/A	S3S1166H002	1977	Permanently Deleted	Yes

Description of Work:

The mechanical snubber listed above was no longer required per the latest pipe stress analysis and was permanently removed. The removed snubber was placed into the rebuild program.

Reference: MMP 3-6683.03SP

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authoriz toon No: N/A Expiration Date: N/A

Signed: Compet of Owner's Designer

Supervising ASME Codes Engineer Date: 12/26 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-9-93 to 12-28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

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

inspection.

the ASME Code, Section XI.

Inspector's Signature Commissions | 862 | California (National Board, State, Province, and Endorsements)

Date Dec. 28, 19 93

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

Sheet 1 of 1 Unit: 3

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 93042177 RS: 198-93

San Opofre Nuclear Generating Station

P&ID: 40141ASO3

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

S3-1301-1

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Main Steam

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None 5 (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Transverse Pipe Stop	Grinnell	Ht. B074	N/A	RSO 2769-93	N/A	Replacement	No

Description of Work:

The transverse pipe stop was replaced due to insufficient clearance per the applicable pipe stress analysis noted in MMP 3-6683.03SP. A VT-3 examination was performed on the strut assembly following installation.

Reference: MMP 3-6683.03SP, WR3-93-452

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

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74	\$5.00 TILLY 88	CROSS	LACKS INC.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

lel Supervising ASME Codes Engineer Date: 1/22 19 79

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and imployed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/16/93 to 1/25/04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions / B/62 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Unit: Southern California Edison Company Owner: 1. CWO: 93050031000 2244 Walnut Grave Avenue, Rosemend, CA 91770 93050032000 FCN: F7374M San Opofre Nucleur Generating Station 40112BSO3 P.O. Box 128, San Clemente, CA 92674-0128 P&ID: \$3-1204-36 N-5: Work Performed by: Bechtel Construction Company 3. Type Code Symbol Stamp: N/A P.O. Box 450 San Clemente, CA 92674-0128 Authorization No: N/A

4. Identification of System: Safety Injection (1204)

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W'71 Addenda, Code Cases: None

N/A

Expiration Date:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

No components to be included in this section for this report.

Description of Work: Build Up pump feet for LPSI pump (\$31204MP015/MP016) foot support, verify weld sizes and increase
weld size as required.

Performed welds per the WR5A's and WFMCR's:

Pump I.D.	We	ld I.D.	
\$31204MP015 - Foot \$31204MP015 - Foot \$31204MP015 - Foot	2 SA	, SB, SC, SD, S	E, SF, SG, SH, SI E, SF, SG, SH, SI E, SF, SG, SH, SI
\$31204MP016 - Foot \$31204MP016 - Foot	1 SA 2 SA	, \$B, \$C, \$D, \$, \$B, \$C, \$D, \$	E, SF, SG, SH, SI E, SF, SG, SH, SI
\$21204MP016 - Foot	3 S.A	, SB, SC, SD, S	E, SF, SO, SH, SI

VT-3 tests performed on both CWO's listed, per Procedure G-005, Rev. 5.

 Tests Conducted: 93050031000 - System Functional [X] Pressure: 500 psig Temp: N/A 93050032000 - System Functional [X] Pressure: 200 psig Temp: 74*F.

9. Remarks: Documentation for items listed in Block 6 are available on site.

For 93051471- new parts comply to the 1986 Edition, no Addenda of the ASME Code.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: By Ay. Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Artwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/1/93 Norwood, Massachusetts have inspected the components described in this Owner's Report during the period to the best of my knowledge and belief, the Owner has performed examinations and taken to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Feb. 8, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 2-4-94

As Required by the Provisions of the ASPAE Code Section XI

Sheet 1 of 1 Owner: Southern California Edison Company Unit CWO: 93050033000 2244 Walnut Grove Avenue, Rosemesd, CA 91770 FCN: F7374M P&ID: 40114ASO3 San Onofre Nuclear Generating Station Flant: N-5: \$3-1206-6 P.O. Box 128, San Clemente, CA 92674-0128 Type Code Symbol Stamp: NIA Bechtel Construction Company Work Performed by: N/A Authorization No: P.O. Box 450 Expiration Date: NIA

San Clemente, CA 92674-0128

Containment Spray (1206) Identification of System:

- Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W71 Addenda, Code Cases: None
 - Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda
- Identification of Components Repaired or Replaced and Replacement Components: 6.

No components to be included in this section for this report.

Description of Work: Build Up pump feet for Containment Spray pump (\$31206MP012) feet support, verify weld sizes and increase weld size as required.

Performed welds per the WRSA's and WFMCR's:

Pump I.D.

Weld LD.

VT-3 tests performed, per Procedure G-005, Rev. 5.

Tests Conducted: 93050033000 - System Functional [X] Pressure: 245 psig Temp: N/A

	(Applicable M	anufacturer's Data Re	ports to be attached)		
***************************************	CERTI	FICATE OF CO	MPLIANCE		
We certify that the staten Section XI.	nenta made in the report ar	e correct and thisr	eplacement conform	s to the rules of the	ASME Code,
Type Code Symbol Stamp	p: N/A				
Certificate of Authorizati	on No: N/A	Expiration Date	e; N/A		
Signed Bet 4.C	empo Bechtil	Yuld Const	- Mgn	Date: 2/7	. 19 9
	CERT	TIFICATE OF IN	SPECTION		
Norwood, Massachusetts to a Corrective measures desc By signing this certifics examinations and correct be liable in any manner	have inspected the compo and state that to the best initial in this Cwiner's Repor- tice, neither the Inspector no tive measures described in the for any personal injury or p	nents described in this of my knowledge and in accordance with or his employer makes this Owner's Report. property damage or a	belief, the Owner has the requirements of the any warranty, express Furthermore, neither	performed examinate ASME Code, Sectioned or implied, concerned the Inspector nor his from or connected	rning the employer shall with this
Date FLK S	3, 1094				
Section Control Contro					
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As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Southern California Edison Company Owner: Unit: 2244 Wainut Grove Avenue, Rosemend, CA 91770 CWO: 93050034000 FCN: F7374M Plant: San Onofre Nuclear Generating Station P&ID: 40114ASO3 P.O. Box 128, San Clemente, CA 92674-0128 \$3-1206-7 N-5

Work Performed by: Bechtel Construction Company Type Code Symbol Stamp: N/A
P.O. Box 450 Authorization No: N/A
San Clemente, CA 92674-0128 Expiration Date: N/A

4. Identification of System: Containment Spray (1206)

5. Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W71 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

No components to be included in this section for this report.

 Description of Work: Build Up pump feet for Containment Spray pump (\$31206MP013) feet support, verify weld sizes and increase weld size as required.

Performed welds per the WR5A's and WFMCR's:

VT-3 tests performed, per Procedure G-005, Rev. 5.

8. Tests Conducted: 93050034000 - System Functional [X] Pressure: 225 psig Temp: N/A

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the stat Section XI.	ements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code,
Type Code Symbol Su	mp: N/A
Certificate of Authoriz	
Signed Best of Couner of C	Compo Buchter Held Conit. Man. Dete: 2/4 199
	CERTIFICATE OF INSPECTION ding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State Company (Factory Munical Engineering Association) of
By signing this certi- examinations and cor- be liable in any mann	and state that to the best of my knowledge and belief, the Owner has performed examinations and taken and state that to the best of my knowledge and belief, the Owner has performed examinations and taken escribed in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. Indicate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the rective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall ser for any personal injury or property damage or a loss of any kind arising from or connected with this
Inspector's S	Commissions / CO California (National Board, State, Province, and Endorsements)
inspection.	
Inspection. Inspector's S	S, 19 5 4
Inspection. Inspector's S	S, 1954

As Required by the Provisions of the ASME Code Sertion XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

3.

4

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by:

Identification of System:

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

93050055 93061877 214-93

GEN-039

40113ASO3 (C-5) S3-1204-5

> N/A N/A

Expiration Date:

Sheet 1 of 1 Unit:

MO:

RS:

P&ID:

N-5:

N/A

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, 573 Addenda, Code Cases: 1516-1 5 (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

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

Safety Injection

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
12" Tilting Disc Check Valve	Anchor Darling	1N189	N/A	S31204MU027	1976		Yes
%" x 10 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 22678	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
%° x 10 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 37730	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material due to their susceptibility to stress corrosion cracking. The studs were cut to the proper size from all-thread on MO 93061877 with the required markings being transferred to the cut pieces.

References: Root Cause Report 93-002, FCN F8238M

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 *F

Note:

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

	plicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statements made in the Section XI.	ne report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp: N/A	
Certificate of Authorization No: N/A	Expiration Date: N/A
Signed: Owner or Owner's Designee, 1	Supervising ASME Codes Engineer Date: //4 195
or Province of California, and employed Norwood, Massachusetts have inspected (24/9.3) to // 4/9 performed examinations and taken corre	ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has ective measures described in this Owner's Report in accordance with the requirements of
examinations and corrective measures de be liable in any manner for any persona inspection.	Inspector nor his employer makes any warranty, expressed or implied, concerning the escribed in this Owner's Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this Commissions Report California
Inspector's Signature Date Jan 14, 199	(National Board, State, Province, and Endorsements)

As Revolved by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO:

Sheet 1 of 1 Unit

3 93050056

93061877 209-93

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

RS:

GEN-039

P&ID:

40113BSO3 (C-5)

Work Performed by:

6.

Southern California Edison Company

N-5:

S3-1204-3

identification of System:

Safety Injection

Type Code Symbol Stamp: Authorization No:

N/A

Expiration Date:

N/A

(a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Cases: 1516-1

N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manutacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
12" Tilting Disc Check Valve	Anchor Darling	1N185	N/A	S31204MU031	1976	* * *	Yes
%" x 10 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 22678	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
%" x 10 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 3773C	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material due to their susceptibility to stress corrosion cracking. The studs were cut to the proper size from all-thread on MO 93061877 with the required markings being transferred to the cut pieces.

References: Root Cause Report 93-002, FCN F8240M

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546 065 *F

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/13, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 16/14/93 to 01/14/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions /869

(National Board, State, Province, and Endorsements)

Date Jan 14 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

CWO: 2244 Wairait Grove Aversie, Rosemed, CA 91770 93051469000 93051505000

93051484000 93051508000

San Onofre Nuclear Generating Station DCP: 3-6858.00-0 40112BSO3 P.O. Box 128, San Clemente, CA 92674-0128 P&ID:

N-5: \$3-1204-35

Sheet I of 3

Unit:

Bechtal Construction Company Work Performed by:

P.O. Box 450 Type Code Symbol Stamp: San Clemente, CA 92674-0128

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

Safety Injection (1204) Identification of System:

Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W71 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3"79 Addenda (b)

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

Name of Compensant	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Capacrew Cooler Supt.	Viteo	HT # AJJ	N/A	Item 3 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Nut, Cooler Supt.	Viteo	HT # X50	N/A	liem 4 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Stud, Flanges 1/2" x 2.75"	Viteo	HT / CA2	N/A	Item 6 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Nut, Flanges 50	Vitco	HT # MAK	N/A	Item 7 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Flange, 5*,300# R.F.	Ideal	HT # D4145	N/A	Item 9 (4 ea) CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Orifice Plate	Carpenter	HT # 32393	N/A	Item 15 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No

Description of Work: Modify and install pump (PO15) seal piping, modify pump to accept new mechanical seal and motor coupling.

Performed welds per WR5/WR5-A's and WFMCR's.

DWG #

WELD I.D.

5023-405-28-6-3 & 5023-405-28-7-3 SA, SB, SC, SD, SE, SF, SO, SH, SJ, SN, SQ, SR

Tests Conducted: VT-2 on CWO 93051508000- System Functional [X] Pressure: 205 psig Temp: 68°F

Remarks: Documentation for items listed in Block 6 are available on site. Pressure/non-pressure boundary retaining portions of LPSI Modification Kit are in accordance with ASM Section III, Class 2. 1986 Edition - No addenda per code reconcilliation included in the N15-2.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Campo Butle Field out My Date 02/03.19 94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Artwright Munual Insurance Company (Factory Munual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period to 2/4/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

ISI Engineer Review: Arun H. Mahindrakar

Dets: 1-27-94

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemesd, CA 91770 CWO: 93051469000 93051505000

93051484000 93051508000

DCP: 3-6858.00-0 Plant San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128 P&ID: 40112BSO3

\$3-1204-35 N-5:

Work Performed by: Bechtel Construction Company P.O. Box 450

Type Code Symbol Stamp: San Clornesso, CA 92674-0128

Authorization No:

Sheet 2 of 3 Unit

> N/A N/A

Expiration Date:

N/A

Identification of System: Safety Injection (1204)

Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W71 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$"79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	LALL TO THE PARTY	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Tubing 0.5°	Sandvik	HT # 462910	N/A	Item 21 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Pipe Coupling 0.5*,SW	Сапусо	HT # EOX	N/A	Item 24 (3 ea) CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Pipe Plug 0.5°NPT	Camco	HT # OW	N/A	Item 25 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Pipe, 0.5*Sch. 80S	Sandvik	HT # M\$349	N/A	Item 27 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Cooler Bracket	Ingersoil Dresser	SN # 2516-2C1	N/A	hem 28 CWO # 93051469000 RSO # 1897-93	N/A	Replacement	No
Cyclone Bracket	Ingersoll Dresser		N/A	Item 30 CWO # 93051469000 RSO # 1897-93	N/A	Replacement	No
Capacrew, Cyl Bracket	Viteo	HT # All	N/A	"tem 31 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
U-Bolt. Cycl Brkt.	B&O	HT # WAU	N/A	Item 33 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Nut-Cycl, Support 0.5*	Vitco	HT # BAH	N/A	Item 34 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
	Vitco	HT # AJJ	N/A	Rem 36 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Capacrew: Cooler Supp.	Florida Steel	HT # V02250	N/A	ttem 38 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Vibration Dampener U-Bolt Assembly, w/4 muts	Viteo	HT # Nuts-MR93-1775 HT # Boh-MR93-1773	-	hem 39 (2 %) CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemesd, CA 91770

P.O. Box 450

San Opofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-U128

Sheet 3 of 3 Unit:

CWO:

93051469000 93051505000

93051484000 930515080P)

DCP: 3-6858.00-0

40112BSO3 P&ID:

\$3-1204-35 N-5:

Type Code Symbol Stamp:

N/A NIA

Authorization No: Expiration Date:

N/A

Identification of System:

Work Performed by:

Plant:

3

Safety Injection (1204)

Bechtel Construction Company

San Clemente, CA 92674-0128

Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W71 Addenda, Code Cases: None 5

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yea/No
Nut 62*Cooler Brkt	Viteo	HT # X50	N/A	Item 41 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Pipe 5°5ch. 80	Sandvik	HT # MS349	N/A	Item 43/12 CWO # 93051469000 RSO # 0894.93	N/A	Replacement	No
Pipe Coupling, .5*,3000#	Cameo	HT # FUI	N/A	Item 44 CWO # 93051469000 RSO # 3452-92	N/A	Replacement	No
LPSI Pump Retrofit Kit	Ingersoil-Rand	SN # 92P-10620	N/A	Items No Item # CWO # 93051505000 RSO # U894-93	1993	Replacement	No

As Required by the Provisions of the ASME Code Section XI

Scuthera California Edison Company

2244 Walnut Grove Avenue, Rosenned, CA 91770

San Oxofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Sheet 1 of 3

Unit: CWO:

93051471000 93051507000

93051471001 93080291000

93051488000 93101742000

DCP:

3-6858.00-0

P&ID: N-5:

401128503 83-1204-36

Work Performed by:

Bechtel Construction Company

P.O. Box 450

San Clomente, CA 92674-0128

Type Code Symbol Stamp:

NIA

Authorization No:

N/A

Identification of System:

Safety Injection (1204)

Expiration Date:

NIA

Applicable Construction Code: ASNE Section III, Class 2, 1971 Edition, W71 Addenda, Code Cases: None 5.

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3"79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Capacrew Cooler Supt.	Viteo	HT # AJJ	N/A	Item 3 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Nut, Cooler Supt.	Viteo	HT # X50	N/A	Item 4 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Stud. Flanges	Viteo	HT / CA2	N/A	Item 6 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Nut. Flanges 50	Vitco	HT # MAK	N/A	Item 7 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No

Description of Work: Prefab/modify/install LPSI Pump piping, mechanical seal, motor coupling, assemble motor to retrofit kit for Pump P016.

Perform welds per WR5/5A's and WFMCR's included in each CWO.

CWO #

ISO/DWG #

WELD I.D.

93051471000/001/ 9023-405-28-5

SA, SB, SC, SD, SE, SF, SO, SH, SJ, SM, SN, SQ, SR, SS, ST, SV, SW

93051488000

Tests Conducted: VT-2 on CWO 93051488000- System Functional [X] Pressure: 200 paig Temp: 74 *: VT-2 on CWO 93080291000- System Functional [X] Pressure 200 paig Temp: 74°2°.

9. Remarks: Documentation foe-issums listed in Block 6 are available on site.

For 930514712 hew parts comply to the 1986 Edition, no Addenda of the ASME Code.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed Let y Compto Beckto July Const. Mag. Date: 02/03,1999

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Munual Insurance Company (Factory Munual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/15/93 to 2/14/44 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall

be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Conumissions

Conumissions

Conumissions

(National Board, State, Province, and Endorsements)

Date Flb. H. 1994

ISI Engineer Review: Arun H. Mahindrakax Dese: 1-27-94

Owner: Southern California Edison Company

Unit:

930/51471000 93051507000 CWO:

93051471001 93080291000

93051488000 93101742000

DCP: 3-6858.00-0

40112B3C3

P&ID:

3

N-5: \$3-1204-36

Type Code Symbol Sump:

N/A NIA

San Clomente, CA 92674-0128

Bechtel Construction Company

Authorization No: Expiration Date:

NIA

Identification of System:

Work Performed by:

Safety Injection (1204)

Applicable Construction Code: ASME Section III, Class 2, 1971 Edizion, W*71 Addenda, Code Cases: None 5.

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

2244 Walnut Grove Avenue, Rosemesd, CA 91770

P.O. Box 450

Sex Osofre Nuclear Generating Station

P.O. Box 128, San Cleanman, CA 92674-0128

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Soard No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Flange, S.W.	Ideal	HT # D4145	N/A	ftem 9 (4 ea) CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Orifice Plate	Carpenter	HT # 32393	N/A	Item 15 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Tubing, 05°	Sandvik	FT # 462910	N/A	item 21 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Pipe Coupling, 3000#	ASP	HT # HEU	N/A	Item 24 (3 ea) CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Pipe Plug	Carrico	HT # OW	N/A	Item 25 (2 ee) CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Pipe, 0.5°, Sch. 80S	Sandvik	HT # MS349	N/A	Item 27 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Cooler Bracket	SOC	HT # 2516-D2	N/A	Nam 28 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Cyclone Bracket	JOC	HT # 2516-A1	N/A	item 30 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Capscrew, Cycl. Braket	Vitoo	HT # All	N/A	hem 31 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
U-Bott, Cycl. Brakt.	B&O	HT # WAU	N/A	hem 33 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Nut-Cycl. Support	Viteo	HT # BAH	N/A	hem 34 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Capacrew, Cooler Supp.	Vitco	HT # AJJ	N/A	itsen 36 CWO # 93051471000 RSO # 0894-93	N/A	Raplacemen	No
Vibration Depender	Florida Steel	HT / V0-7250	N/A	hem 38 CWO # 93051471000 RSO # 0894-93		Rapiacemen	e No

3.

Owner: Southern California Edison Company Unit: 3

22A4 Walnut Grove Avenue, Rosemend, CA 91770 CWO: 93051471000 93051507000

93051471001 93080291000

Plant: San Ouofre Nuclear Generating Station 93051488000 93101742000 P.O. Box 128, San Clemente, CA 92674-0128 DCP: 3-6858.00-0

Work Performed by: Bechtsel Construction Company N-5: 83-1204-36

P.O. Box 450

San Clemente, CA 92674-0128 Type Code Symbol Stamp: N/A
Authorization No: N/A
Identification of System: Safety Injection (1204) Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W'71 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$"79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
U-Bolt Assembly with 4 Nuts	Viteo	HT # MR93-1773 HT # MR93-1775 (Nuta)	N/A	Item 39 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Cooler Brks.	Viteo	HT # X50	N/A	Item 41 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Elbow, 45°,3000#	Сатко	HT # RA	N/A	Item 42 CWO # 93051471000 RSO # 0194-93	N/A	Replacement	No
Pipe, .5" Sch. 80	Sandvik	HT # MS349	N/A	hem 43 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
90° Elbow	ASP	HT # NM	N/A	Item 10 CWO # 93051471001 RSO # 0894-93	N/A	Replacement	No
Male Connetor	Swagalok	HT # N/A	N/A	hem 20,37 CWO # 93051471001 RSO # 0894-93	N/A	Replacement	No
LPSI Pump Retrofit Kit	Ingersoll-Rand	SN # 92P-10619	N/A	herr. No it.# CWO # 93051507000 RSO # 0894-93	N/A	Replacement	No
U-Bolt V	A&O Eng.	HT # NDB	N/A	hem 33 CWO # 93101742000 CR-1013-95 RSO # 2204-91		Replacement	No
Shim Plate, 1*	Hub, Inc.	HT # C6293	N/A	hem 35 CWO # 93101742000 CR-1014-93 RSO # 1751-93		Replacement	No

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Southern California Edinon Company Unit: 3 Owner:

CWO: 93051524000 2244 Waters Grove Avenue, Rosemend, CA 91770 DCP: 3-6858.00

40112BSO3 P&ID: San Onofre Nuclear Generating Station \$3-1204-12 N-5: P.O. Box 128, San Clemente, CA 92674-0128

Type Code Symbol Stamp: Bechtel Construction Company N/A 3 Work Performed by: N/A Authorization No: P.O. Box 450 San Clemente, CA 72674-0128 Expiration Date: N/A

Containment Spray (1204)

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, \$74 Addenda, Code Cases: None 5

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Tubing, 4. 65 Wall 5.5.	Sandvik Steel	HT # 5W610	N/A	Item 6 DWG # \$3-1204-ML-999 RSO # 0879-92	N/A	Replacement	No

7. Description of Work:

identification of System:

Modify tubing to adjust to revised elevation of cyclone cooler pump.

Tests Conducted: System Leskage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] 8. Pressure: 200 paig Temp: 74°F

	(Applicat	ble Manufacturer's Data Re	ports to be stached)	
	C	ERTIFICATE OF CO	MPLIANCE	
We certify that th Section XI.	statementa riide in the rep	or are correct and thist	eplacement conforms to	the rules of the ASME Code,
Type Code Symb	Stamp: N/A			
Signed: Signed: Owner	or Owner's Designee, Title	Buttel Freld C		Date: 2/4 . 18
or Province of S Norwood, Massa to S/S/s corrective measu	holding a valid commission altiforms, and employed by husetts have inspected the commission and state that to the sea described in this Owner's	Arkwright Musual Insurano components described in this s best of my knowledge and Report in accordance with	rd of Boiler and Pressure e Company (Factory Mutus s Owner's Report during to belief, the Owner has per the requirements of the A	
examinations and	certificate, neither the Inspec- corrective measures describe sanner for any personal injur	ed in this Owner's Report. y or property damage or a	Furthermore, neither the loss of any kind arising fro	Inspector nor his employer sha om or connected with this
Inspecto	Signature PAR	Commissions	(National Board, State, P	California rovince, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit:

93072200

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Sheet 1 of 1

93101730 GEN-009, Rev. 3

268-93

F.O. BOX 120, San Cicinette, CA 92074-012

P&ID:

40141DSO3 (G-4)

Southern California Edison Company

N-S:

S3-1301-1

4. Identification of System:

Work Performed by:

Main Steam

Type Code Symbol Stamp:

N/A

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S774 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" x 10" Safety Valve	Crosby	N58737-00-0022	N/A	3PSV8406	1977	Replaced	Yes
0" x 10" Safety Valve	Crosby	N58737-00-0008	N/A	RSO 2742-93	1976	Replacement	Yes
Inlet Flange Nuts (12)	Cardinal Industrial Products	Heat Code E-2	N/A	RSO 1171-93 SA-194, Gr. 7	N/A	Replacement	No

Description of Work:

The main steam safety valve (3PSV8406) was replaced with a refurbished and retested spare. See attached NVR-1 form. Additionally, twelve inlet flange nuts were also replaced.

*Flexidisc conversion per FCNs F8704M and F8216M.

Crosby had erroneously replaced the original valve nameplate, changing the serial number to N58737-01-0008 while refurbishing the valve. Subsequently, a duplicate of the original valve nameplate was supplied by Crosby and attached to the valve in accordance with MO 93101730.

8. Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: 1000 psig Temp: N/A

Note:

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

Remarks: The replacement nut material was reconciled to the original construction code requirements on SEE-92-0065.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/13 1999

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/15/9.3 to 1/14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Unit: Owner: Southern California Edison Company

93080904000 93080905001 CWO: 2244 Walram Grove Avecase, Rosemend, CA 91770 93080904001 93090430000

NIA

93080905000 Plant: San Onofre Nuclear Generating Station DCP: 3-6742.07-0 P.O. Rox 128, San Clemente, CA 92674-0128

401273503 P&ID: N-5: N/A

Bechtel Construction Company Work Performed by: P.O. Box 450

Type Code Symbol Stamp: San Clemente, CA 92674-0128 N/A Authorization No: Expiration Date: N/A Component Cooling Water (1203) Identification of System:

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, W74 Addenda; ASME Section III, Class 2, 1974 Edition, W75 Addenda; Code Cases; None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yas/No
Pipe Plug, 3/8*	Camco Fittings	HT # OX	N/A	Item 8 CWO # 93080904000 DWO # SO23-949-31-0 RSO # 2185-93	N/A	Replacement	No
Pipe Plug, 3/8*	Cameo Fittings	HT # OX	N/A	Item 8 CWO # 93080904000 DWO # S023-949-32-1 RSO # 2185-93	N/A	Replacement	No
Plug, Vi*	Hub. Inc.	ST # OW	N/A	Item 7 (2 each) CWO # 93080904001 DWO # SO23-949-31-0 RSO # 3406-92	N/A	Replacement	No
Pipe Plug, 3/8*	Cameo Fittings	HT # OX	N/A	Item 8 CWO # 93080905000 DWG # 5023-949-31-0 RSO # 2185-93	N/A	Replacement	No
Pipe Plug, 3/8"	Cameo Fistings	HT # OX	N/A	Item 8 CWO # 93080905000 DWO # S023-949-32-1 RSO # 2185-93	N/A	Replacement	No
Plug, 4	Hub, Inc.	HT # OW	N/A	Item 7 (2 each) CWO # 93080905001 DWO # SO23-949-31-0 RSO # 3406-92	N/A	Replacement	No
Seal Disc Assembly	Valcor Engineer		N/A	CWO # 93090430000 DWO # 83-1203-ML-479 RSO # 2-P-3020-82	N/A	Replacement	No

Description of Work: Install new impeller, install, align and couple pumps \$31203MP1018/1019. Includes installing code plugs in casing seal-water connection holes. Lapped valve seat and disc on solemoid valve 3HV6570, replaced seal disc assembly and lapped valve seat on 3HV6956.

Tests Conducted: VT-2 CWO 93080904000 - System Functional [X] Pressure: 94.5 paig Temp: N/A*F VT-2 CWO 93080905000 - System Functional [X] Pressure: 95.0 peig Temp: N/A°F.

FORM NIS-2 (back)

Remarks: Documentation for items listed in Block 6 are available on sits. Per CWO 93087504000/93080905000, dwgs SO23-949-31-0 and SO23-949-32-1, item 8; dwg. SO23-949-31-0, item 7: reconciled per CR-2000-93

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

4. Campo. Buttel Fuld onst. Mg1. Date: FEB. 18 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/9/93 to 2/24/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 716.24, 1994

ISI Engineer Review: Arun H. Malindrakan Done: 2-17-94

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 3 MO:

2244 Walnut Grove Avenue, Rosemead, CA 91770

93080938

San Onofre Nuclear Generating Station

RS: 228-93

P&ID: 40112DSO3 (B-2)

P.O. Box 128, San Clemente, CA 92674-0128

N-S: S3-1204-31

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

Identification of System:

Authorization No:

N/A N/A

Safety Injection

Expiration Date:

N/A

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

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3" Tilting Disc Check Valve	Anchor Darling	1N348	N/A	S31204MU156	1978		Yes
¼" x 13 Hinge Pin Cover Studs (8)	Nova Machine	Hr. 16925	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
¼" x 13 Hinge Pin Cover Nuts (8)	Nova Machine	Hr. 24848	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material due to their susceptibility to stress corrosion cracking. The studs were cut to the proper size from all-thread with the required markings being transferred to the cut pieces.

References: Root Cause Report 93-002, FCN F8237M

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 *F



(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed All Supervising ASME Codes Engineer Date: Felr. 1 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/0/3 to 2/0/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 168, 2, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3 MO: 93

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MO: 93080939 RS: 229-93

San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128 PS.ID: 40113ASO3 N-5: S3-1204-32

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp:

N/A

4. Identification of System:

Safety Injection

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

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3° Tilting Disc Check Valve	Anchor Darling	1N351	N/A	S31204MU152	1979	***	Yes
M" x 13 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 16925	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
¼" x 13 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 24848	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material due to their susceptibility to stress corrosion cracking. The studs were cut to the proper size from all-thread with the required markings being transferred to the cut pieces.

References: Root Cause Report 93-002, FCN F8236M

8. Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psia Temp: 546.065 *F

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ¼ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

	Downson	diese 5	Director
9.	Remar	Bulk.	XUITE:

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp. N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/13 1995

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/06/93 to 01/14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions

California

(National Board, State, Province, and Endorsements)

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As Required by the Provisions of the ASME Code Section El

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 3

MO: RS:

93080940 226-93

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: N-5: S3-1704-4

40113ASO3 (C-4)

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Work Performed by:

Plant:

Safety Injection

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Cases: 1516-1

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
12" Tilting Disc Check Valve	Anchor Darling	1N186	N/A	S31204MU029	1976		Yes
¼" x 10 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 22678	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
%" x 10 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 37730	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material due to their susceptibility to stress corrosion cracking. The studs were cut to the proper size from all-thread with the required markings being transferred to the cut pieces.

References: Root Cause Report 93-002, FCN F8239M

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 *F

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/13 1999

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/07/93 to 01/14/94, and state that to the best of my knowledge and belief, the Owner has 10/07/93 performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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(National Board, State, Proving) (National Board, State, Province, and Endorsements)

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As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit:

MO: 93080941

San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128 RS: P&ID: N-5:

227-93 40113BSO3 (C-4)

S3-1204-2

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Safety Injection

Expiration Date:

NIA

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda, Code Cases: 1516-1

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
12" Tilting Disc Check Valve	Anchor Darling	1N192	N/A	S31204MU033	1976	4 4 4	Yes
¼" x 10 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 22678	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
%" x 10 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 37730	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

Description of Work:

The hinge pin cover studs and nuts were replaced with an alternate material due to their susceptibility to stress corrosion cracking. The studs were cut to the proper size from all-thread with the required markings being transferred to the cut pieces.

References: Root Cause Report 93-002, FCN F8241M

Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psig Temp: 546.065 *F

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/3 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/7/93 to 1/14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions / 2 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 3

MO:

RS:

93081174 087-93, Rev. 1

P&ID:

40156BSO3 (B-1)

N-5:

S3-1305-7

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Feedwater

Expiration Date:

N/A

(a)

(b)

P.O. Box 128, San Clemente, CA 92674-0128

San Onofre Nuclear Generating Station

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'75 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
20"x16"x 20" Gate Valve	WKM	503457	1736	3HV4052	1979	Repaired	Yes
Valve Bonnet	Cooper Oil Tool	Part #257880 Ht. 468VNF	N/A	RSO 2398-93 SA-350, Gr. LF2	1993	Replacement	No
'A''Φ Pipe Plug	Cardinal Ind.	Ht. Code JT1	N/A	RSO 3300-92	N/A	Replacement	No
'φ' Pipe Plug	Consolidated Power Supply	Ht. 014K	N/A	RSO 0918-93	N/A	Replacement	No

Description of Work:

In accordance with FCN F8774M, the valve bonnet was replaced on the feedwater isolation valve in plant position 3HV4052. The replacement bonnet port was drilled out to '4" NPT (from '4" NPT) and replacement '4" pipe plugs were installed in both the bonner vent port and packing leak-off openings. The plugs were sealwelded and an MT examination was performed.

References: NCR 92050098, WR3-93-192, and CR-88-007

Valve bonnet supplied under requirements of NRC Generic Letter 89-09.

8. Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 990 psig Temp: N/A

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: '4 , 1994

CERTIFICATE OF INSPECTION

l, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

20/14/93 to 1/19/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 14, 1994

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3

MO:

93081774

San Onofre Nuclear Generating Station

RS: P&ID: 262-93 40113BSO3 (G-7)

Work Performed by:

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

S3-1204-8

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Safety Injection

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W73 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

6 Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Solenoid Globe Valve	Target Rock	13 Model 75G-002-2	N/A	3HV9364	1977		Yes
Main Disc	Target Rock	667	N/A	RSO 0998-88 SA-479, Tp. 316	N/A	Replacement	No

Description of Work:

The valve in plant position 3HV9364 had the body-to-bonnet seal weld removed. The valve was disassembled and the valve disc was replaced. A pre-weld PT examination was performed. The seal weld was then re-installed and a postweld PT examination was performed.

Reference: WR3-93-548

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 630 psig Temp: N/A

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/14 , 1994

Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

11/1/9/3 to 1/1/9/4, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions 1862
(National Boar

(National Board, State, Province, and Endorsements)

FORM MIS-2 OWN ER'S REPORT FOR REPAIRS OR REPAIRS OF

As 3 spaired by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

3 MO: 93081775

Sheet 1 of 1

2244 Walnut Grove Avenue, Rosemead, CA 91770

RS:

Plant: San Onofre Nuclear Generating Station 232-93

P&ID: 40113BSO3 (F-2)

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1204-9

Type Code Symbol Stamp:

N/A

Authorization No:

N/A

Identification of System:

Work Performed by:

Safety Injection

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W73 Addenda, Code Cases: None 5. (a)

Southern California Edison Company

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Globe Valve	Target Rock	75G-002-15	N/A	3HV9374	1977	Repaired	Yes
Valve Disc	Target Rock	646	N/A	RSO 0998-88	1988	Replacement	Yes

Description of Work:

The body-to-honnet seal weld was removed from the globe valve located in plant position 3HV9374. The valve disc was replaced and the seal weld was re-installed. A PT examination was performed on the completed seal weld.

Reference: WR3-93-545

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 623 psig Temp: N/A

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: Asset Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachuserts have inspected the components described in this Owner's Report during the period 10/16/93 to 1/17/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspect, v nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of 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 Gare 17, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 93091444

Sheet 1 of 1

Unit: 3

San Onofre Nuclear Generating Station Plant:

RS: 231-93

P&ID: 40124ASO3 (G-6)

P.O. Box 128, San Clemente, CA 92674-0128

N-5: 53-1208-12

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Chemical and Volume Control

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Replaced, Replaced, or Replacement	ASME Code Stamped Yes/No
Flange Connection Walve 31V0227A	Bechtei	N/A	N/A	S31208ML085			Yes
%*φ Studs (4)	A&G Engineering	Ht. Code IXA	N/A	RSO 0534-90 SA-193, Gr. B7	N/A	Replacement	No
%"\$ Nuts (8)	A&G Engineering	Ht. Code LE	N/A	RSO 0534-90 SA-194, Gr. 2H	N/A	Replacement	No

Description of Work:

The flange fasteners at flanged connection downstream of 3LV0227A on line S31208ML085 were replaced in-kind.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 34.4 psig Temp: N/A

Note:

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: /2/26 . 1997

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-27-93 to 28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Signatuse Commissions 1862 California (National Board, State, Province, and Endorsements)

Date Que, 28, 1993

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: MO: 93100554

Sheet 1 of 1

261-93 RS:

San Onofre Nuclear Generating Station

40123ASO3

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: S3-1201-3-9 N-5:

Work Performed by: Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Reactor Coolant.

Authorization No:

N/A

Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S'73 Addenda (Valve), 1974 Edition, S'74 Addenda (Piping), Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Replaced, Replaced, or Replacement	ASME Code Stamped Yes/No
2" Y-Type Check Valve	Kerotest	MA8-2	N/A	S31201MU021	1976	Replaced	Yes
2" Y-Type Check Valve	Kerotest	ABR9-20	N/A	RSO 2-P-2466-A-83	1983	Replacement	Yes
2"φ Sch. 160 Pipe	Consolidated Power Supply	Ht. 460163	N/A	RSO 3089-93	N/A	Replacement	No

Description of Work:

Note:

The valve located in plant position S31201MU021 and the pipe nipple immediately upstream were cut out and replaced. The body-to-bonnet seal weld on the replacement valve was removed and re-installed to facilitate valve installation. Preweld PT examination of the reused pipe ends was performed and PT and RT examinations were performed on all the completed welds.

References: NCR 93100024, FCN F8839M, and WR3-93-587

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [X] Pneumatic [] Other [] Pressure: 2289 psig Temp: 547.3 *F

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/13 1994

CERTIFICATE OF 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 California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/3e/9.3 to 01/14/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Eignature Commissions 1864
(National Board,

(National Board, State, Province, and Endorsements)

Jan 14 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

P.O. Box 128, San Clemente, CA 92674-0128

San Onofre Nuclear Generating Station

Sheet 1 of 1

MO:

93100613

RS:

GEN-002, Rev. 3 40141ASO3 (F-7)

P&ID: N-5:

S3-1305-8

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Feedwater

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: 1644-5 5. (a)

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	2079	N/A	S3FW189H010b	1977	Replaced	Yes
Mechanical Snubber PSA 10-6	Pacific Scientific	17978	N/A	RSO 1352-91	1991	Replacement	No

Description of Work:

The mechanical snubber in plant location S3FW189H010B was replaced in accordance with NCR 93100029 after failing Technical Specification 3/4.7.6 functional testing. VT-3 and VT-4 examinations were performed. The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumacic [] Other [] Pressure: N/A Temp: N/A

Note:

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

FORM NIS-2 (back)

9.	Remarks: The	replacement	snubber i	s certified to	O ASME III, NE	(Class 1).

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Owner or Owner's Designee, Title Supervising ASME Codes Engineer Date: 2/14, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachuserts have inspected the components described in this Owner's Report during the period

10/13/93 to 2/15/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date 15, 1994

As Required by the Provisious of the ASME Code Section XI

Owner: Southern California Edison Company

Unit: 3

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: RS:

93100614 GEN-002, Rev. 3

San Onofre Nuclear Generating Station

40141ASO3

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: N-5:

Sheet 1 of 1

53-1305-8

3 Work Performed by:

Plant:

2

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System.

Feedwater

Authorization No: Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 5'74 Addenda, Code Cases: None 150 (a)

N/A

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Repaired, ASME National Name of Name of Manufacturer Other Year Replaced, or Code Component Manufacturer Serial No. Board No. Identification Built Replacement Stamped Yes/No Pacific Scientific | 15679 N/A S3-FW-189-H-010T Replaced PSA 10-6 Mechanical Snubber Pacific Scientific | 17971 N/A RSO 1352-91 1991 Replacement No PSA 10-6

7. Description of Work:

The mechanical snubber in plant location S3-FW-189-H-010T was replaced. A VT-3 and VT-4 was performed on the replacement snubber.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

FORM NIS-2 (back)

Remarks: The replacement snubber was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

eichlas Supervising ASME Codes Engineer Date: March 4 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/15/93 to 3/4/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Faston Commissions Inspector's Signature

(National Board, State, Province, and Endorsements)

Date March 4 1994

As Required by the Provisions of the ASME Code Section III

Southern California Edison Company

2344 Walnut Grove Avenue, Rosemead, CA 91770

P.O. Box 128, San Clemente, CA 92674-0128

Sheet 1 of 1 Unit:

MO: RS:

93100716 GEN-002, Rev. 3

San Onofre Nuclear Generating Station

P&ID:

40141ASO3 (C-7)

N-5:

S3-1305-7

Work Performed by:

Plant:

2.

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Feedwater

Authorization No: Expiration Date:

N/A

N/A

£ (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-5

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	2250	N/A	S3FW190H014T	1977	Replaced	Yes
Mechanical Snubber PSA 10-6	Pacific Scientific	17979	N/A	RSO 1352-91	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93100028 after failing functional testing in accordance with SO23-I-2.39. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

FORM NIS-2 (back)

Remarks: The replacement snubber was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 12/28 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/18/93 to 12/20, 93 and state that to the best of my knowledge and belief, the Owner has

performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Signature Commissions Inspector's Signature

(National Board, State, Province, and Endorsements)

Date 12/29 19 93

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit:

MO:

RS:

93100719 250-93, Rev. 1

San Onofre Nuclear Generating Station

P&ID:

40123BSO3 (B-6)

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

S3-1208-14

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Chemical and Volume Control

Authorization No: Expiration Date:

N/A N/A

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

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%" Globe Valve	Kerotest	OS27-24	N/A	S31208MR247	1976	* < *	Yes
Valve Disc	Kerotest	AF.P19-10	N/A	RSO 0893-92	1992	Replacement	Yes

Description of Work:

The valve disc was replaced in the globe valve located in plant position S31208MR247.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [X] The 1" exemption was taken from the pressure test requirements.

Note:

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

FORM NIS-2 (back)

Remarks: The replacement disc was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/26 19 93

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/26/93 to 229/93 and state that to the best of my knowledge and belief, the __, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions 1564

(National Board, State, Province, and Endorsements)

Darotte 29 1093

As Responed by the Provisions of the ASSME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 3

Unit:

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: RS:

93100721 247-93

San Onofre Nuclear Generating Station

P&ID:

40123ASO3 (H-2) S3-1208-4

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A N/A

Identification of System: 4

Chemical and Volume Control

Expiration Date:

N/A

\$ Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 779 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
% Globe Valve	Kerotest	OW17-1	N/A	S31208MR084	1976	Repaired	Yes
Disc	Kerou st	AEU8-5	N/A	RSO 2-P-2249-83	1983	Replacement	Yes

Description of Work:

Kerotest vent valve was disassembled due to a seat leakage problem. During valve rework, a new disc was installed and the valve was reassembled.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 420 psig Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 14 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (back)

Remarks: The replacement disc was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/13 19 94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/2 6/93 to 01/14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

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

inspection.

the ASME Code, Section XI.

California

Commissions 1869
(National Board) (National Board, State, Province, and Endorsements)

As Respaired by the Provisions of the ASME Code Section XI

Chamer: withern California Edison Company

2244 " alnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit MO:

93100722 239-93

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

RS: P&ID: 40123BSO3

N-5:

S3-1208-14

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Chemical and Volume Control

Expiration Date:

N/A

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

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Secial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Globe Valve	Kerotest	BAW13-10	N/A	S31208MR144	1981		Yes
Valve Disc	Kerotest	GBR2-58	N/A	RSO 2758-92	1992	Replacement	Yes

Description of Work:

The valve disc was replaced in the globe valve located in plant position S31208MR144.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 420 psig Temp: N/A

Note

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

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Remarks: The replacement disc was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/13 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/30/9 3 to 1/14/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

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

the ASME Code, Section XI.

inspection.

(National Board, State, Province, and Endorsements)

Inspector's Signature Commissions 186
(National Be

As Sequired by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company

£.

Plant:

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: 3 MO: 93100726 RS: 249-93

Sheet 1 of 1

RS: San Onofre Nuclear Generating Station P&ID:

 San Onofre Nuclear Generating Station
 P&ID:
 40134DSO3 (G-5)

 P.O. Box 128, San Clemente, CA 92674-0128
 N-5:
 S3-1212-19

Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A

Identification of System: Nuclear Sampling System: N/A

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

(b) Application of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yer/No
'A' Globe Valve	Kerotest	LN5-17	N/A	S31212MU010	1976	* * *	Yes
Valve Disc	Kerotest	MAK295-1	N/A	RSO 2-P-2322-82	1982	Replacement	Yes

7. Description of Work:

The valve disc was replaced in valve S31212MU010.

Reference: NCR 93100043

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: 1490 psig Temp: N/A

Note.

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ps.

Remarks: The replacement disc was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/22 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10123/9.3 to 125/9.4, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 44, 25, 1994

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by: Southern California Edison Company

Identification of System: Fuel Pool Cleaning and Makeup Sheet 1 of 1

Unit: 3

MO: 93100822

RS: 253-93 256-93

P&ID: 40124BSO3 (B-7)

N-5 S3-1219-3

Type Code Symbol Stamp:

N/A

Authorization No:

N/A

Expiration Date:

NA

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

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
6" Swing Check Valve	Walworth/Aloyco	A1649	568	S31219MU052	1976	* 2 2	Yes
Valve Disc	Crane Aloyco Inc.	A5671	**	RSO 0666-88	1988	Repaired/ Replacement	Yes

Description of Work:

Plant:

Valve disc was replaced in valve located in plant position S31219MU052. During replacement, the new disc was noted as having excessive axial movement in the bore of the swing area. The face of the replacement disc shoulder was machined to reduce the axial movement. A PT examination was performed after machining.

Reference: NCR 93100039

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 20 psig Temp: N/A

Note:

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

85

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/22 1994

CERTIFICATE OF 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 California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

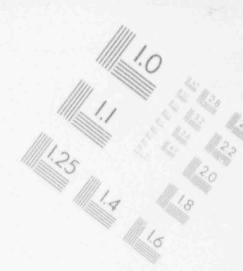
10/194/98 to 125/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Am. 25, 1994

IMAGE EVALUATION TEST TARGET (MT-3)





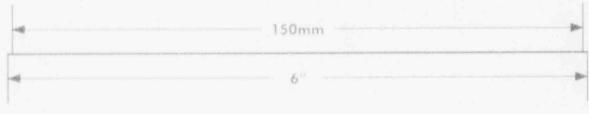


IMAGE EVALUATION TEST TARGET (MT-3)



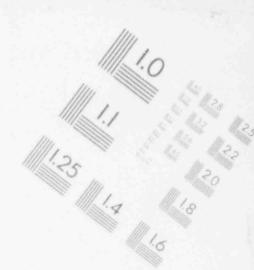




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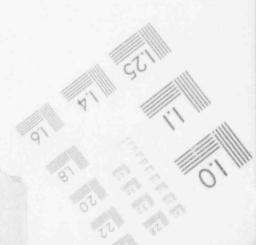
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IMAGE EVALUATION TEST TARGET (MT-3)









Az Required by the Provisions of the ASPE Code Section XI

Owner: - Scientians Californie Edison Company

2244 Wahne Grove Avenue, Rosemend, CA 91770

P.O. Box 128, Sen Chements, CA 92674-0128

San Onofre Nuclear Generating Station

Sheet 1 of 1

Unit: CWO:

93100833000

93100962000

DCP:

93110025000

SG3/C7

PA-ITO N-5:

40111ASQ3 83-1201-3

Bechsel Construction Company

P.O. Box 450 San Clemente. CA 92674-0128

Type Code Symbol Stamp:

N/A

Identification of System:

Work Performed by:

Steems (1301)

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Sections III, Class 1, 1971 Edition, \$71 Addende, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$79 Addende

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Handhole Stud, 1", 8UNC-2A	PMC Industries	HT # 85689	N/A	Pert No. 119-09 (1 ea) CWO # 93100833000 DWG SO23-915-069 RSO # 2249-91	1974	Replacement	No
Handhole Stud Nut, 1* 8UNC-2B	PMC Inudstries	HT # 11472	N/A	Part No. 119-11 (1 sa) CWO # 93100833000 DWG # SO23-915-069 RSO # 2249-91	1980	Replacement	No
Manway Stud 11/2" " 8N-2A	Combustion Eng.	HT # 40545	N/A	Part No. 119-10 (6 ea) CWO # 93100962000 DWG # SO23-915-069 RSO # 3522-90	1980	Replacement	No
Manway Stud Nut, 114" 8N-2B	Combustion Eng.	HT # J6765-1	N/A	Part No. 119-12 (5 ma) Part No. 119-18 (1 ma) CWO # 93100962000 DWO # 5023-915-069 RSO # 3440-85	1985	Replacement	No
Manway Stud, 114" 8N-2A	Combustion Eng.	HT # 40545	N/A	Part No. 119-10 (3 ea) CWO # 93110025000 DWG # SO23-915-069 RSO # 3522-90	1980	Replacement	No
Marrovey Stud Niz. 176.	Combustion Eng.	HT # 16765-1	N/A	Part No. 119-12 (3 ea) Port No. 119-18 (1 ea) C-WO # 93110025000 DWG # 3023-915-069 R3O # 3440-85	1985	Replacement	No

Description of Work:

Replace handhold stude and nuts.

Tests Conducted: VT-2 for 93100833000 - System Leakage [X] Pressure: 1000 psig Temp: 545°F VT-1 for CWO 93100962000 in accordance with procedure G-005, Rev. 5

	(Applicable Manufecturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify the Section XI.	at the statements made in the report are norrect and thisreplacementconforms to the rules of the ASME Code,
Type Code S	ymbol Stamp: N/A
Cartificate of	Authorization No: N/A Expiration Date: N/A
Signed Be	Ay. Carosp. Buchtel Field Porit. Mgr. Date: FEB 18, 199
	CERTIFICATE OF INSPECTION
or Province of Norwood, Mu	gned holding a valid commission issued by the National Board of Boiler and Pressure V seel Inspectors and the State of California, and amployed by Arkwright Mutual Instrumes Company (Factory Mutual Engineering Association) of associates have inspected the components described in this Owner's Report during the period 1919 3 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken
	azures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing texaminations	this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall my manner for any personal injury or property damage or a loss of any kind arising from or connected with this
By signing to examinations be liable in a inspection.	this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall
By signing texaminations be liable in a inspection.	this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall my manner for any personal injury or property damage or a loss of any kind arising from or connected with this
By signing texaminations be liable in a inspection.	this certificate, neither the Inspector por his employer makes any warranty, expressed or implied, concerning the and corrective measures described in this Owner's Report. Furthermore, neither the Inspector por his employer shall my manner for any personal injury or property damage or a loss of any kind arising from or connected with this Commissions Commissions California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Service XI

Owner: Southern California Edison Company

Sheet 1 of 1 Unit: 3

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 93100845

San Onofre Nuclear Generating Station

RS: GEN-002, Rev. 3 P&ID:

P.O. Box 128, San Clemente, CA 92674-0128

40141ASO3 (C-3) N-5: S3-1301-2

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Main Steam

Authorization No: Expiration Date:

N/A N/A

(a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 574 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampeo Yes/No
Mechanical Snubber PSA 3-5	Pacific Scientific	29896	N/A	S3ST016H715	1986	Replaced	No
Mechanical Snubber PSA 3-5	Pacific Scientific	30709	N/A	RSO 1890-91 Code Case 1644-4/5/7	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93100070 after failing functional testing in accordance with SO23-I-2.39. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statements made Section XI ,	in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp: N/A	
Certificate of Authorization No: N/	A Expiration Date: N/A
Signed: AMarket Owner or Owner's Designe	Supervising ASME Codes Engineer Date: 12/28 1992
	CERTIFICATE OF INSPECTION
Norwood, Massachusetts have inspect	CERTIFICATE OF INSPECTION nmission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of ted the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has preceive measures described in this Owner's Report in accordance with the requirements of
Norwood, Massachusetts have inspect 10/8/93 to 12/2 performed examinations and taken co the ASME Code, Section XI. By signing this certificate, neither th examinations and corrective measures	nmission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State and by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of the the components described in this Owner's Report during the period of 10/93, and state that to the best of my knowledge and belief, the Course has

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 126, San Clemente, CA 92674-0128

Southern California Edison Company

Type Code Symbol Stamp:

93100907

S3-1201-3-7

GEN-002, Rev. 3

40111BSO3 (F-4)

Unit:

MO:

RS:

P&ID:

N-5:

N/A

Reactor Coolant

Authorization No: Expiration Date.

N/A N/A

(a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 3-5	Pacific Scientific	29900	N/A	S3RC012H057	N/A	+ + 4	No
Load Pin	Pacific Scientific	Hr. N2609A	N/A	RSO 4129-85	N/A	Replacement	No

Description of Work:

Note:

Piant:

Work Performed by:

Identification of System:

The snubber load pin was replaced and the pipe clamp realigned. Following installation, the support assembly was visually examined (VT-3).

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: //5 .19 94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10-20-9.3 to 1-6-9.4, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions /862 California (National Board, State, Province, and Endorsements)

Date Jan. 6, 1994

i.s Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Sheet 1 of 1 Unit:

MO:

93100987 GEN-002, Rev. 3

RS: P&ID:

40124BSO3 (C-2)

N-51

S3-1208-5

3. Work Performed by:

Plant:

(a)

5.

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Chemical and Volume Control

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-4/5/7 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1/4-4	Pacific Scientific	37439	N/A	S3VC008H023	1986	Replaced	No
Mechanical Snubber PSA 14-4	Pacific Scientific	38643	N/A	RSO 2181-91	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93100083 after failing functional testing. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

Testz Conducted: System Leakage [] System Functional [] System Inservice [1 Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: The replacement snubber was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/5 1999

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwrigh' Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the compo significant described in this Owner's Report during the period 10-21-93 to 1-6-94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Inspector's Signature Commissions 1862 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit:

RS:

MO:

93101215

GEN-002, Rev. 3

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: N-5: S3-1305-8

40141ASO3 (F-7)

Work Performed by:

2.

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Feedwater

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-5 5. (a)

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	2522	N/A	S3FW189H012	1977	Replaced	Yes
Mechanical Snubber PSA 10-6	Pacific Scientific	17976	N/A	RSO 1352-91	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93100097 after failing functional testing. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

9. Rer	marks: The replacement	snubber was certified to	ASME III, Class 1.	
--------	------------------------	--------------------------	--------------------	--

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stam: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/5 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10-26-93 to 1-6-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Shownen Inspector's Signature

Commissions /862

California

(National Board, State, Province, and Endorsements)

Date 4011, Ce, 1994

As Required by the Provinces of the ASME Code Section XI

1. Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Southern California Edison Company

Identification of System: Feedwater

Work Performed by:

Type Code Symbol Stamp:

Sheet 1 of 1

Unit:

MO: RS:

P&ID:

N-5:

Authorization No:

93101216

S3-1305-8

GEN-002, Rev. 3

40141A5 J3 (F-7)

N/A

N/A

Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-5

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	2582	N/A	S3FW189H013B	1977	Replaced	Yes
Mechanical Snubber PSA 10-6	Pacific Scientific	17972	N/A	RSO 1352-91	1991	Replacement	No

Description of Work:

Note:

Snubber S3FW189H013B failed an investigative functional test. The snubber was replaced with an in-kind snubber per NCR 93100098. VT-3 and VT-4 examinations were performed after replacement. The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: N/A Temp: N/A

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the nurver of sheets is recorded at the top of this form.

Remarks: The replacement snubber was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization Nr.: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: (2/26, 1993

CERTIFICATE OF 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 California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10-26-93 to 12-28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 /862 California (National Board, State, Province, and Endorsements)

Date Dec. 28, 1993

As Required In the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Wainut Grove Avenue, Rosemead, CA 91770

San Opofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Sheet 1 of 1

Unit:

MO:

93101314

RS:

GEN-002, Rev. 3 40112ASO3 (C-2)

P&ID: N-5:

53-1204-34

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Safety Injection

Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA ¼	Pacific Scientific	36765	N/A	S3SI014H012	1985	Replaced	No
Mechanical Snubber PSA 1/4	Pacific Scientific	38656	N/A	RSO 2181-91 Code Case 1644-4/5/7	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93100106 after failing Technical Specification 3/4.7.6 functional testing. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statements Section XI.	made in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp: N	I/A
Certificate of Authorization No	o: N/A Expiration Date: N/A
Signed: A	Veille Supervising ASME Codes Engineer Date: 1/14 199
	CERTIFICATE OF INSPECTION
or Province of <u>California</u> and Norwood, <u>Massachusetts</u> have 23 - 14 to performed examinations and ta the ASME Code, Section XI.	alid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of inspected the components described in this Owner's Report during the period 1-17-944, and state that to the best of my knowledge and belief, the Owner has sken corrective measures described in this Owner's Report in accordance with the requirements of
or Province of California, and Norwood, Massachusetts have 23-74 to performed examinations and to the ASME Code, Section XI. By signing this certificate, neicxaminations and corrective more be liable in any manner for an inspection.	employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of inspected the components described in this Owner's Report during the period [-/7-94], and state that to the best of my knowledge and belief, the Owner has aken corrective measures described in this Owner's Report in accordance with the requirements of ither the Inspector nor his employer makes any warranty, expressed or implied, concerning the easures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall y personal injury or property damage or a loss of any kind arising from or connected with this
or Province of California, and Norwood, Massachusetts have 23 - 14 to performed examinations and to the ASME Code, Section XI. By signing this certificate, necessaminations and corrective more be liable in any manner for an	employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of inspected the components described in this Owner's Report during the period 1-17-944, and state that to the best of my knowledge and belief, the Owner has aken corrective measures described in this Owner's Report in accordance with the requirements of other the Inspector nor his employer makes any warranty, expressed or implied, concerning the easures described in this Owner's Report. Furthermore, neither the Inspector nor his employer sha y personal injury or property damage or a loss of any kind arising from or connected with this

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 Unit: MO:

2244 Walnut Grove Avenue, Rosemead, CA 91770

93101357 RS: 254-93

San Onofre Nuclear Generating Station

P&ID: 40112ASO3 (C-3)

P.O. Box 128, San Clemente, CA 92674-0128

N-5: S3-1204-34

Work Performed by: Southern California Edison Company Type Code Symbol Stamp: N/A Authorization No:

4. Identification of System:

3.

Note:

Safety Injection Expiration Date:

N/A N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: 1516-1

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5779 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
4º Globe Valve	Ancher Darling	2N800	N/A	S31204MU015	1977	* * *	Yes
Disc	Anchor Darling	SN 3 Hr. A744	N/A	RSO 2396-92 SA-479, Tp. 316	1992	Replacement	Yes

Description of Work:

The valve was disassembled for inspection to determine the cause of internal binding. The valve disc was replaced with a new "one-piece" disc and the valve was re-assembled.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 1490 psig Temp: N/A

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

Remarks: None (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Apthorization No: N/A

Expiration Date: N/A

Perille Supervising ASME Codes Engineer

Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

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

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 186

(National Board, State, Province, and Endorsements)

As Recquired by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit:

MO:

93101360

San Onofre Nuclear Generating Station

RS: P&ID: GEN-002, Rev. 3

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

40112ASO3 S3-1301-1

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A N/A

Identification of System:

Main Steam

Authorization No: Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 574 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME. Code Stamped Yes/No
Mechanical Snubber PSA ¼	Pacific Scientific	37443	N/A	S3ST014H011	1986	Replaced	No
Mechanical Snubber PSA ¼	Pacific Scientific	38646	N/A	RSO 2181-91 Code Case 1644-4/5/7	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93100117 after failing Technical Specification 3/4.7.6 functional testing. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3).

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/4 in. x 11 in., (2) information in Items 1 through 5 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Remarks: The replacement snubber was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Date: 12/26 19 93

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/26/93 to 12/16/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Oral Joston Commissions 1574 California
Inspector's Signature (National Board, State, Province, and Endorsements)

mber 28 19 93

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Sheet 1 of 1 Unit: 3

2244 Walnut Grove Avenue, Rosemead, CA 91770

MO: 93101532001

San Onofre Nuclear Generating Station

RS: 267-93

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: 40112DSO3 (B-4) N-5: S3-1201-4

Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A

Authorization No:

N/A

Identification of System:

Reactor Coolant System

Expiration Date:

N/A

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
2" Y-Type Globe Valve	Kerotest	MC6-15	N/A	S31201MU114	1976	2.4.4	Yes
Valve Disc	Kerotest	AHG4-12	N/A	RSO 2-P-2669-83	N/A	Replacement	Yes

Description of Work:

The valve disc was replaced in valve located in plant position 531201MU114.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 497.507 Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 14 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the statement Section XI.	nts made in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stamp:	N/A
Certificate of Authorization	No: N/A Expiration Date: N/A
Signed: A Mai Cowner or Owner	Supervising ASME Codes Engineer Date: 1/5 1999
	CERTIFICATE OF INSPECTION
or Province of California, a Norwood, Massachuserts ha 10-31-93 to	a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of ave inspected the components described in this Owner's Report during the period 1-4-94 and state that to the best of my knowledge and belief, the Owner has did taken corrective measures described in this Owner's Report in accordance with the requirements of
examinations and corrective be liable in any manner for	neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the e measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer sharp personal injury or property damage or a loss of any kind arising from or connected with this
inspection.	100 00
Inspection. Inspector's Signatu	Commissions /8C2 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: 3

MO: 93101625 RS:

GEN-002, Rev. 3

San Onofre Nuclear Generating Station

P&ID:

40113BSO3

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

S3-1204-3

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Safety Injection

Authorization No: Expiration Date:

N/A N/A

(a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 35	Pacific Scientific	5830	N/A	S3SI045H013	1980	Replaced	No
Mechanical Snubber PSA 35	Pacific Scientific	13055	N/A	RSO 1099-91	1991	Replacement	No

Description of Work:

The snubber located in plant position S3SI145H013 was replaced in accordance with NCR 93100139 after failing Technical Specification 3/4.7.6 functional testing. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3) The removed snubber was placed into the rebuild program.

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

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: /2/26 1943

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachuserts have inspected the components described in this Owner's Report during the period (D-31-93) to (D-28-93), and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Dec. 28, 1993

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 3

Unit:

MO:

93101679

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: 40122BSO3 (D-5)

RS: 260-93

N-5: 53-1219-4 Type Code Symbol Stamp:

N/A

Work Performed by:

Southern California Edison Company

Authorization No:

N/A

Identification of System:

Fuel Pool Cooling

Expiration Date:

N/A

(a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, 573 Addenda (Valve), 1974 Edition, S'74 Addenda (Pipe), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%" Globe Valve	Kerotest	YW15-19	N/A	S31219MR050	1979	Replaced	Yes
%" Globe Valve	Kerotest	AHW2-4	N/A	RSO 4445-85	1985	Replacement	Yes
√4° φ SCH 40 Pipe	Sandvik	Ht. 462190	N/A	RSO 0995-93 SA-376, Tp 304	N/A	Replacement	No

Description of Work:

A crack was found in the %" pipe nipple upstream of root valve S31219MR050. The nipple and valve were replaced in accordance with WR3-93-582 and NCR 93100141.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 488.612 psig Temp: N/A

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 2/8 ,1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10/28/93 to 2/9/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective neasures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 \$16, 9, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Recemend, CA 91770

MO: RS:

Unit:

Sheet 1 of 1

93101740 GEN-002, Rev. 3

San Onofre Nuclear Generating Station

P.O. Box 128, San Gemente, CA 92674-0128

P&ID:

40113BSO3 (C-5)

N-5:

S3-1204-3

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

3

N/A

4. Identification of System:

Safety Injection

Authorization No: Expiration Date:

N/A N/A

(a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-7

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Replaced, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 35	Pacific Scientific	12647	N/A	S3S1045H016T	1985	Replaced	No
Mechanical Snubber PSA 35	Pacific Scientific	19 01	N/A	RSO 1099-91	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93100145 after failing Technical Specification 3/4.7.6 functional testing. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

(3)	ALC ARMED CO.	rks: Not	-
27.	13511140	EPG2 - 24571	

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed:

Supervising ASME Codes Engineer Date: 12/26 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusests have inspected the components described in this Owner's Report during the period 10-30-93 to 12-28-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Dec. 28, 1993

Commissions 1862

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI.

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station Plant:

P.O. Box 128, San Gemente, CA 92674-0128

Work Performed by: Southern California Edison Company

Identification of System: Reactor Coolant Type Code Symbol Stamp:

Sheet 1 of 1

Unit:

MO:

RS:

P&ID:

N-5:

N/A Authorization No:

S3-1201-4

93101741

263-93

N/A Expiration Date: N/A

40112DSO3 (A-4)

S. Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Welded Pipe Support	Bechfel	N/A	N/A	S3RC079H001	1982	Repaired	No

Description of Work:

Note:

Pipe support S3RC073H001 was cut at the installation weld to gain access to valve S31201MU114. Upon completion of valve maintenance, the support was reassembled by welding. A visual examination was performed of the completed weld. Additionally, a VT-3 examination was performed.

Reference: WR3-93-588

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/26 , 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10-29-93 to 12-28-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Occ. 28, 1993

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Type Code Symbol Stamp:

3

93101808

40111ASO3

53-1201-3

276-93

N/A

Work Performed by:

Plant:

3.

Southern California Edison Company

Authorization No:

N/A

Identification of System:

Reactor Coolant

Sheet 1 of 1

Unit

MO: RS:

P&ID:

N-5:

5 (a)

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, 5'75 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Hydraulic Snubber (826 KIP)	Paul Monroe Inc.	PD 16154-261	N/A	S3RCP01H001	N/A		No
Snubber Control Valve	Paul Monroe Inc.	AC-477	N/A		N/A	Replaced	No
Snubber Control Valve	Paul Monroe Inc.	144	N/A	RSO 4968-85, Rev. 1 SA-564, Tp. 630	N/A	Replacement	No

Description of Work:

The rod side control valve on hydraulic snubber S3RCP01H001 (@ S31201MP001) was replaced. After replacement, a VT-3 and VT-4 (per SO23-1-2.30) examination was performed on the snubber.

Reference: NCR 93100144

Tests Conducted: System Leakage [] System Functional [] System [] System [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 14 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/22 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

11/12/9.3 to 1/25/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Jan. 25, 1994

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company Owner:

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0128

Sheet 1 of 1

MO: 93101813

RS:

GEN-002, Rev. 3 40113ASO3 (C-1)

P&ID:

N-5:

S3-1204-4

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Plant:

Safety Injection

Authorization No: Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-4/5/7

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 3-5	Pacific Scientific	29891	N/A	S3S1044H004	1986	Replaced	No
Mechanical Snubber PSA 3-5	Pacific Scientific	30715	N/A	RSO 1890-91	1991	Replacement	No

Description of Work:

Note:

The mechanical snubber listed above was replaced as a preventative maintenance action. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3).

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

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the state Section XI.	ements made in the report are correct and this replacement conforms to the rules of the ASME Code,
Type Code Symbol Stan	p: N/A
Certificate of Authoriza	ion No: N/A Expiration Date: N/A
Signed: Owner or Ow	Meile Supervising ASME Codes Engineer Date: 2/8 195
	CERTIFICATE OF INSPECTION
or Province of Californi Norwood, Massachusett	ng a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of shave inspected the components described in this Owner's Report during the period to 299/944, and state that to the best of my knowledge and belief, the Owner has and taken corrective measures described in this Owner's Report in accordance with the requirements of
or Province of Californi Norwood, Massachusett 10,20,23 performed examinations the ASME Code, Section By signing this certific examinations and corres	ng a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of shave inspected the components described in this Owner's Report during the period to 299/944, and state that to the best of my knowledge and belief, the Owner has and taken corrective measures described in this Owner's Report in accordance with the requirements of

As Required by the Provisions of the ASME Code Section XI

			Sheet 1 o	f I	
1	Owner: Southern Californ	nia Ediaon Company	Unit:	3	
	2244 Walman Gro	ve Avseme, Rosemend, CA 91770	CWO:	93101852000	
				93101852001	
2.	Plant San Opotre Nucl	ear Generating Station	DCP:	3-6863.00-0	
	P O. Box 128, Sa	n Clemense, CA 92674-0128	P&ID:	40112BSO3	
			N-5:	\$3-1201-4	
3	Work Performed by	Bechtel Construction Company			
		P.O. Box 450	Type Cod	e Symbol Sump:	NA
		San Clemente, CA 92674-0128	Authoriza	tion No:	N.A.
			Expiration	Date:	N/A
4.	Identification of System:	Reector Coolant (1201)			
6.	(b) Applicable Editio	ruction Code: ASME Section III, Class 2, 19 n of Section XI Utilized for Repairs or Repla s Repaired or Replaced and Replacement C this NIS-2	acementa: 1977 Ea		
7	Description of Work:				
	Repair linear indication on	valve \$31201MU994 to disposition NCR 9310	00159.01		
	Performed weld and and Ra	diographic Exam and Penetrant testing as re-	quired by the NCI		
	CWO WELD	D.			
	93101852001 NCR 9	3100159			

Tests Conducted: VT-2 performed as part of the original Traveler package SO3-93-001.

CERTIFICAL OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Concerning to the rules of the ASME Continuation No. N/A Certificate of Authorization No. N/A Signed: Detailed of Authorization No. N/A Expiration Date: N/A CERTIFICATE OF INSPECTION I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Artwright Munical Insurance Company (Factory Munical Engineering Association Norwood, Massochusetts have inspected the components described in this Owner's Report during the period Association and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer be 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 Commissions Commissions California (National Board, State, Province, and Endorsements)	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Constraint No. Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Signed: Gardy Conver's Designee, Title CERTIFICATE OF INSPECTION I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Munal Insurance Company (Factory Muna) Engineering Association Norwood, Massochusetts; have inspected the components described in this Owner's Report during the period (1997) and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranny, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer to be 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 California Inspector's Signature Commissions California (National Board, State, Province, and Endorsements)	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME of Section XI. Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Signed: Section XI. CERTIFICATE OF INSPECTION I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkentish Munical Insurance Company (Fectory Munical Engineering Association Norwood, Massechusetts have inspected the components described in this Owner's Report during the period of and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed the same of the ASME Code, Section XI. Commissions Commissions Commissions Commissions Commissions Commissions (National Board, State, Province, and Endorsements)		(Applicable man	ufacturer's Data Reports to be	anached)
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Constitution XI. Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Certificate of Authorization No: N/A Commissions of Boiler and Pressure Vessel Inspectors and the or Province of California (National Board, State, Province, and Endorsements N/A Commissions Commissions Commissions Commissions Commissions Commissions Commissions Commissions California (National Board, State, Province, and Endorsements)	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Constitution No. Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Signed: Suffer of Owner's Designee, Title CERTIFICATE OF INSPECTION In the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Artwright Munaal Insurance Company (Factory Munaal Engineering Association Norwood, Massociated have inspected the components described in this Owner's Report during the period of ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranny, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer has be 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 California Inspector's Signature Commissions California (National Board, State, Province, and Endorsements)	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Control XI. Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Signed: Suffer of Owner's Designee, Title CERTIFICATE OF INSPECTION In the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Artwright Munal Insurance Company (Factory Muna) Engineering Association Nerwood, Massochuseers have inspected the components described in this Owner's Report during the period of SIMM association and to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranny, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranny, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this impection. Commissions California (National Board, State, Province, and Endorsements)		CERTIF	CA1 OF COMPLIAN	CE
Signed: But I Cample Designee, Title CERTIFICATE OF INSPECTION The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the prevince of California, and employed by Arkwright Munsal Insurance Company (Fectory Munsal Engineering Association Norwood, Massochusetts have inspected the components described in this Owner's Report during the period of Commission and corrective measures described in this Owner's Report during the period of Commissions and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed be 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 Commissions California (National Board, State, Province, and Endorsements	CERTIFICATE OF INSPECTION The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Artwright Munal Insurance Corporary (Fectory Munual Engineering Association Norwood, Massachusetts have inspected the components described in this Owner's Report during the period (ASI) of the corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer to be 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 Commissions California (National Board, State, Province, and Endorsements)	CERTIFICATE OF INSPECTION The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Artwright Munal Insurance Corrowary (Fectory Munual Engineering Association Norwood, Massechusetts have inspected the components described in this Owner's Report during the period (ASI) Alternative measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer to be 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 Commissions California Inspector's Signature Commissions California National Board, State, Province, and Endorsements	We certify that the s Section XI.			
CERTIFICATE OF INSPECTION the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the province of California, and employed by Arkwright Munual Insurance Correctory Munual Engineering Association Correctory Massechusetts have inspected the components described in this Owner's Report during the period 1997 and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer eliable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 1862 California Inspector's Signature (National Board, State, Province, and Endorsements)	CERTIFICATE OF INSPECTION the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Munual Insurance Company (Fectory Munual Engineering Association Norwood, Manuschusetts have inspected the components described in this Owner's Report during the period Association or active measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the xaminations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer eliable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this impection. Commissions Inspector's Signature Commissions National Board, State, Province, and Endorsements Oute 1974 Commissions National Board, State, Province, and Endorsements	CERTIFICATE OF INSPECTION the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Munual Insurance Company (Festory Munual Engineering Association Norwood, Manuschusetts have inspected the components described in this Owner's Report during the period Association or active measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the naminations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer eliable in any manner for any personal injury or property damage or a loss of any kind ensing from or connected with this impection. Commissions Inspector's Signature Commissions National Board, State, Province, and Endorsements Oute 1974 Commissions National Board, State, Province, and Endorsements	Type Code Symbol !	itamp: N/A		
CERTIFICATE OF INSPECTION the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Province of California, and employed by Arkwright Munual Insurance Company (Factory Munual Engineering Association Norwood, Massociations have inspected the components described in this Owner's Report during the period Association of California and state that to the best of my knowledge and belief, the Owner has performed examinations and orrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer is 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 Inspector's Signature California (National Board, State, Province, and Endorsements)	CERTIFICATE OF INSPECTION the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Munaal Insurance Company (Factory Munual Engineering Association Norward Massachusetts) have inspected the components described in this Owner's Report during the period Association and orrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer is 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 California (National Board, State, Province, and Endorsements) California (National Board, State, Province, and Endorsements)	CERTIFICATE OF INSPECTION the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Munual Insurance Company (Factory Munual Engineering Association Norward), Massachusetts have inspected the components described in this Owner's Report during the period 10/3/1/4 and state that to the best of my knowledge and belief, the Owner has performed examinations and orrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer is 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 California (National Board, State, Province, and Endorsements) California (National Board, State, Province, and Endorsements)	Cemificate of Author	ization No: N/A	Expiration Date: N/A	
I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association Norwood, Massochusetts have inspected the components described in this Owner's Report during the period Association of California and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer be 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 California (National Board, State, Province, and Endorsements)	the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Munal Insurance Company (Factory Munal Engineering Association Norwood, Massochusetts) Norwood, Massochusetts have inspected the components described in this Owner's Report during the period California and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report or requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer be 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 Commissions California California California National Board, State, Province, and Endorsements National Board, State, Province, and Endorsements	the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Munual Insurance Company (Fectory Munual Engineering Association Norwood, Massechusetts) have inspected the components described in this Owner's Report during the period California and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed he 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 Commissions California California National Board, State, Province, and Endorsements National Board, State, Province, and Endorsements	Signed: But Owner or	The Campo Bur Owner's Designee, Title	tel Fred Cont	Migh Date: 02/03
I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association Norwood, Massochusetty have inspected the components described in this Owner's Report during the period 1979 and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer be 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 California (National Board, State, Province, and Endorsements)	I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Munial Insurance Company (Fectory Munial Engineering Association Norwood, Massechusetts have inspected the components described in this Owner's Report during the period California and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer be 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 California California California National Board, State, Province, and Endorsements National Board, State, Province, and Endorsements	I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the or Province of California, and employed by Arkwright Mutual Insurance Company (Fectory Mutual Engineering Association Norwood, Massachusetts) have inspected the components described in this Owner's Report during the period California and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed be 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 Commissions California National Board, State, Province, and Endorsements National Board, State, Province, and Endorsements				
Province of California and employed by Arkwright Munial Insurance Company (Fectory Munial Engineering Association Norwood, Massociation have inspected the components described in this Owner's Report during the period 103/1/4 and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer be 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 California (National Board, State, Province, and Endorsements)	Province of California and employed by Arkwright Munual Insurance Company (Fectory Munual Engineering Association Norwood, Massociated have inspected the components described in this Owner's Report during the period Components and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer to 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 California (National Board, State, Province, and Endorsements) Date 1974	Province of California and employed by Arkwright Mutual Insurancy Company (Fectory Mutual Engineering Association Norwood, Massociated have inspected the components described in this Owner's Report during the period 1974 and state that to the best of my knowledge and belief, the Owner has performed examinations and corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer 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 California (National Board, State, Province, and Endorsements) Date 1974		CERTIF	TCATE OF INSPECTIO	N ·
		Engineer Review: Arum H. Malaindraban Des: 1-27-94	By signing this cert examinations and cor- be liable in any many inspection.	described in this Owner's Report in ificate, neither the Inspector nor himsetive measures described in this ser for any personal injury or propagature	is employer makes any warrant Owner's Report. Furthermore erry damage or a loss of any to Commissions	ry, expressed or implied, concerning the neither the Inspector nor his employed and arising from or connected with this California
Engineer Review: Hrun H. Malaindrabax Dess: 1-27-94						
Engineer Review: Hrun H. Malaindrabax Dess: 1-27-94						
Engineer Review: Hrun H. Malaindrabax Des: 1-27-94						

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3

MO: 93110065

RS:

GEN-002, Rev. 3 40112CSO3 (D-2)

P&ID: N-5:

S3-1204-5

3. Work Performed by:

(b)

6.

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Safety Injection

Expiration Date:

N/A

5 (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644-5

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1	Pacific Scientific	2017	N/A	S3SI152H001	1977	Replaced	Yes
Mechanical Snubber PSA 1	Pacific Scientific	24062	N/A	RSO 2-P-170-84 Code Case 1644-7	1983	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93110005 after failing functional testing in accordance with SO23-1-2.39. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/13 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Pactory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11/4/93 to 1/14/94 and state that to the best of my knowledge and belief, the Owner has

performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions /862 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit:

MO:

93110116 271-93

San Onofre Nuclear Generating Station

RS: P&ID:

40134ASO3 (H-7)

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

Work Performed by: 3

S3-1212-5

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A N/A

Identification of System:

Nuclear Plant Sampling

Expiration Date:

N/A

5.

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None

(b)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
4" Globe Valve	WKM	70-117800	1210	3HV0517	1977		Yes
Valve Plug	Anchor Darling	Ht. H3042 Part 251207	N/A	RSO 3181-92	N/A	Replacement	No
%" Bonnet Studs	Consolidated Power	Ht. Code H5	N/A	RSO 1419-93 SA-453, Gr. 660	N/A	Replacement	No
44" Bonnet Nuts	Nova Machine	Ht. 37730	N/A	RSO 1710-93 SA-453, Gr. 660B	N/A	Replacement	No

Description of Work:

The valve plug and bonnet studs and nuts were replaced. In accordance with IWA-7400(d), the 1" NPS and under exemption was applied to the replacement studs and nuts (reference NCR 94020084).

Tests Canducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250,734 psig Temp: N/A

Note:

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of

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35.0	201033	1453 PGD: /		112

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

John & For A. B. Merchler Supervising ASME Codes Engineer Date: 3/11

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11/5/03 to 3/11/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions /6/3 California (National Board, State, Province, and Endorsements)

Date Merch 11, 1994

As Required by the Provisions of the ASME Code Section XI

Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 3

Unit:

MO:

RS:

93110138 280-93

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

N-5:

P&ID: 40112CS03 (G-5)

S3-1204-13

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Solety Injection

Authorization No:

N/A

Expiration Date:

N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 1	Pacific Scientific	11143	N/A	S3SI087H018	N/A		No
3" Pipe Clamp	Pacific Scientific	Part# 1802002-030	N/A	RSO 3877-86	N/A	Replacement	No
3"φ Sch 160 Pipe	ABB	Ht. L33994	N/A	RSO 3199-93 SA-312, TP 304	N/A	Replacement	No

Description of Work:

The pipe clamp was found to be the incorrect size during removal of the snubber for functional testing. The pipe clamp was replaced and spacers added as detailed in FCN F8874M. A VT-3 examination was performed on the support assembly.

References: NCR 93110008, FCN F8874M, WR3-93-631

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

	(Applicable Manufacturer's Data	Reports to be attached)	
	CERTIFICATE OF C	OMPLIANCE	
We certify that the statements made Section XI.	e in the report are correct and this	replacement conforms to th	e rules of the ASME Code,
Type Code Symbol Stamp: N/A			
Certificate of Aythorization No: N	N/A Expiration D	Pate: N/A	
Signed Who Sand	and the control of th	ME Codes Engineer	Date: Fek. 1 199.
I, the undersigned holding a valid or province of California, and emplo	oyed by Arkwright Mutual Insurance of the components described in the components described by the components descr	Board of Boiler and Pressure ce Company (Factory Mutua this Owner's Report during the best of my knowledge and	d Engineering Association) of the period d belief, the Owner has
performed examinations and taken			
performed examinations and taken the ASME Code, Section XI. By signing this certificate, neither examinations and corrective measure be liable in any manner for any peninspection.	sonal injury or property damage or	T. Furthermore, neither the r a loss of any kind arising f	f or implied, concerning the Inspector nor his employer sha from or connected with this
performed examinations and taken the ASME Code, Section XI. By signing this certificate, neither examinations and corrective measure be liable in any manner for any peninspection.	res described in this Owner's Repor sonal injury or property damage or	t. Furthermore, neither the railoss of any kind arising f	f or implied, concerning the Inspector nor his employer sha from or connected with this California
performed examinations and taken the ASME Code, Section XI. By signing this certificate, neither examinations and corrective measure be liable in any manner for any pen	res described in this Owner's Repor sonal injury or property damage or	t. Furthermore, neither the railoss of any kind arising f	f or implied, concerning the Inspector nor his employer shirom or connected with this

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit: MO:

93110201 272-93

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: 40124ASO3 (C-6)

RS: N-5:

S3-1208-8

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A N/A

Identification of System:

Chemical and Volume Control

Expiration Date:

N/A

5. (a).

Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S'73 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Y-Type Globe Valve	Kerotest	TNE7-3	N/A	S31208MU061	1976	* * *	Yes
Valve Disc	Kerotest	CBR2-70	N/A	RSO 2758-92	N/A	Replacement	Yes

Description of Work:

The valve disc was replaced in the valve located in plant position S31208MU061.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 22 psig Temp: N/A

Note:

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

Remarks: The replacement disc was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

//- 0-9-3 to //-7-9-4 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Am 17, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: 3 MO: 93110214

Sheet 1 of 1

284-93 RS:

San Onofre Nuclear Generating Station

289-93

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: 40112ASO3 (C-2) S3-1204-34 N-5:

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

Identification of System:

Safety Injection

Authorization No:

N/A N/A

Expiration Date:

N/A

- Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None (a)
 - (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda
- Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 14	Pacific Scientific	38656	N/A	S3SJ014H012	1991	Replaced	No
Mechanical Snubber PSA 1	Pacific Scientific	25773	N/A	RSO 1704-86	N/A	Replacement	No
Rear Brackets w/pins (2)	Pacific Scientific	Ht. 63820 Ht. 8651770	N/A	RSO 2199-88	N/A	Replacement	No
Pipe (1"φ Sch 80)	Quanex	Ht. 446094	N/A	RSO 2359-93 SA-106, Gr. B	N/A	Replacement	No
Transition Tube Kit (Plate, Adapter Assembly, 4 Bolts)	Pacific Scientific	Ht. N1394-D, N2073-B, N1688C, N2442	N/A	RSO 2488-87	N/A	Replacement	No

Description of Work:

Per FCN F-8861M, the PSA ¼ snubber located in plant position S3SI014H012 was replaced with a PSA 1 snubber. Additionally, the installed rear brackets for the PSA 1/4 snubber were replaced with rear brackets required for the PSA 1 snubber. The replacement rear brackets were installed by welding (ref. WR3-93-635), with an MT examination performed on the completed welds. The transition tube was welded to the pipe (ref. WR3-93-652). After installation, the support assembly was visually examined.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

9.	Remarks: The replacement snubber, rear brackets, and transition tube kit were certified to ASME II. Class 1.
	(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Envineer Date: 2/8 19.94

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11/28/97 2010 2/9/9 4 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Feb. 9, 1994

\$

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Owner: Southern California Edison Company Unit: 2244 Walnut Grove Avenue, Rosemead, CA 91770 MO: 93110649 93110776 2. Plant: San Onofre Nuclear Generating Station GEN-002, Rev. 3 RS: P.O. Box 128, San Clemente, CA 92674-0128 P&ID: 40114ASO3 (C-2) N-5: S3-1206-1 Work Performed by: Southern California Edison Company Type Code Symbol Stamp:

4. Identification of System: Containment Spray

Type Code Symbol Stamp: N/A

Authorization No: N/A

Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA %	Pacific Scientific	102	N/A	S3CS001H015	1987	Replaced	No
Mechanical Snubber PSA %	Pacific Scientific	109	N/A	RSO 2083-88	1988	Replacement	No
Forward Bracket W/Bolts	Pacific Scientific	N2341-A N2640	N/A	RSO 2445-86 Code Case 1644-7	N/A	Replacement	No

Description of Work:

Note:

The mechanical snubber listed above was replaced in accordance with NCR 93110036 after failing Technical Specification 3/4.7.6 functional testing. The replacement of the forward bracket with bolts was also required. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other []
Pressure: N/A Temp: N/A

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

£.

Remarks: All replacement materials were certified to ASME III, Class 1. The replacement snubber, certified to 1980 Edition, W'82 Addenda, was reconciled using CR-88-005.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: Owner or Owner's Designee, Title Supervising ASME Codes Engineer Date: 1/22, 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the comments described in this Owner's Report during the period 1/1/1/9.3 to 1/25/9# and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 /862 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI.

Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Unit: 3 93110824 MO:

Sheet 1 of 1

Plant:

RS: 282-93

San Opofre Nuclear Generating Station

GEN-039 40112ASO3 (B-6)

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: N-5: S3-1204-21

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: N/A

Safety Injection Identification of System:

2.

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
24° ∳ 150# Check Valve	TRW Mission	D-5801	N/A	S31204MU003	1977	* * *	Yes
1¼"φ x 16" Long Stud	Hub Inc.	Heat Code "E8"	N/A	RSO 2035-90 SA-193, Gr. B7	N/A	Replacement	No

Description of Work:

Note:

A damaged flange stud at valve S31204MU003 was replaced. A replacement stud was cut from all-thread with the required marking being transferred to the cut piece.

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] MT005 Level > 80%

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 14 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

0 Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/26 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11/14/93 to 12/29/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions 1864 California (National Board, State, Province, and Endorsements)

Date Dec 29 19 93

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit:

MO:

93110832

Plant:

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 32674-0128

P&ID: 40112ASO3 (G-7) N-5:

RS:

S3-1204-21

GEN-002, Rev. 3

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Safety Injection

Expiration Date:

N/A

S. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	3474	N/A	S3S1003H017	1978	Replaced	No
Mechanical Snubber PSA 10-6	Pacific Scientific	17970	N/A	RSO 1352-91	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced as a preventative maintenance action. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3).

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note

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

Remarks: The replacement snubber was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed: Al Mar Let Supervising ASME Codes Engineer Date: 1/14 19 44

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

11/15/93 to 11/4/6/4, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 3

Unit: MO:

93110895 285-93

Plant: San Onofre Nuclear Generating Station 2.

P.O. Box 128, San Clemente, CA 92674-0128

S3-1201-3

RS: P&ID: N-5:

40111ASO3

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Reactor Coolant

Authorization No: Expiration Date:

N/A

N/A

Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: None 5. (a)

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
NW Support Link of RCP P004	Combustion Engineering	N/A	N/A	S31201MP004	**	Repaired	No

Description of Work:

The northwest support link (part of NF boundary) of RCP S31201MP004 had material removed and the edge chamfered to eliminate an arc strike area. An MT examination and VT-3 examination were performed after material removal.

Reference: NCR 93110057

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 12/26, 1993

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11-17-93 to 12-28-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date Dec. 28, 1993

As Required by the Provisions of the ASSE Code Section XI

Sheet 1 of 1 Owner: Southern California Edison Company Unit: 2244 Walton Grove Avenue, Rosemed, CA 91770 CWO: 93111109000 93111219000 93111108001 93111220000 San Onorfre Nuclear Cheversting Station Plant: 93111150000 93111220001 P.O. Box 128, San Chemento, CA 92674-0128 93111157000 93111537000 DCP: 5G3/C7 Work Performed by Beobsel Construction Company 40141A3O3 P&ID: P.O. Box 450 N-5: 53-1305-8 Sun Clamante, CA 92674-0128 Type Code Symbol Stamp: N/A Identification of System: Condensate and Feedwester (1305) Authorization No: N/A Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 3"74 Addende, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3'79 Addends

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Round Ber Mug	Consolidated Power Supply	HT # 656VNR		hern 15 CWO # 93111219000 DWO # 531305ML189 RSO # 3291-93	N/A	Replacement	No

Description of Work:

Performed welds per the WR5/5A's and WFMCR's:

CWO DWG # WELD I.D.

93111108001 \$3-1305-ML-189,Sht 2 \$BX, \$BZ

93111157000 \$3-1305-ML-189,Sht 2 \$BY, BJ, BH

93111537000 \$3-1305-ML-189,Sht 2 93110118

Tests Conducted: VT-2 requirements met on CWO 93111157000 - System Leakage [X] Pressure: 1000 psig Temp: 545*F



Remarks: Documentation for items listed in Block 6 are available on site. CWO 93111219000, dwg. S31305ML189, item 15 reconciled to CR-88-007, Rev. 1

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Data: N/A

eltel Field Const. Mgross. Fel. 23, 1958 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11/21/94 to 2/24/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions /862 California

(National Board, State, Province, and Endorsements)

Date F. S. 24. 194

Anen H. Malindrakar

Dans: 2-22-94

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Sheet 1 of 1

Unit: 3

MO:

RS:

93111195 288-93

N-5:

P&ID: 40113ASO3

S3-1204-7

Work Performed by:

Plant:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Safety Injection

Expiration Date:

N/A

(a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W"73 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Solenoid Globe Valve	Target Rock	11	N/A	3HV9354	1977	Repaired	Yes
Valve Disc	Target Rock	Part #102271-1 S/N 609	N/A	RSO 0998-88	1988	Replacement	No

Description of Work:

The body-to-bonnet sealweld was removed from valve 3HV9354. The valve was disassembled and the valve disc was replaced. The sealweld was re-installed and a PT examination was performed. (Ref. WR3-93-643)

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 624 psig Temp: N/A

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

When Supervising ASME Codes Engineer

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of

Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11/20/93 to 3/2/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions /

(National Board, State, Province, and Endorsements)

Date March 2, 1994

As Required by the Provisions of the ASME Code Section XI

5.

Plant:

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

RS:

Unit: 3

MO:

93111311 GEN-002, Rev. 3

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: N-5:

40141DSO3 S3-1301-1

Work Performed by

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Main Steam

Authorization No:

N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, 574 Addenda, Code Cases: 1644-5 (a)

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda (b)

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 35-6	Pacific Scientific	896	N/A	S3ST001H022E	1978	* * *	Yes
Load Pin	ITT Grinnell	Ht. Code ZA	N/A	RSO 2229-85 A-564, Gr. 630	N/A	Replacement	No

Description of Work:

The mechanical snubber load pin was replaced. The support assembly was visually examined (VT-3) following installation.

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

the ASME Code, Section XI.

Certificate of Authorization No: N/A

Expiration Date: N/A

Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood V schusetts have inspected the components described in this Owner's Report during the period 11/2 to 1/14/94, and state that to the best of my knowledge and belief, the Owner has performed inations and taken corrective measures described in this Owner's Report in accordance with the requirements of

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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

Commissione 1862 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1 Unit: 3

RS:

MO:

93111494 GEN-002, Rev. 3

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID: S3-1301-2 N-5:

40141ESO3 (F-7)

Type Code Symbol Stamp:

N/A

Identification of System:

Work Performed by:

Main Steam

Authorization No: Expiration Date:

N/A N/A

(a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S'74 Addenda, Code Cases: 1644

Applicable Edition of Section XI Utilized for Repairs or Replacement. 1977 Edition, 579 Addenda (b)

Southern California Edison Company

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA ¼	Pacific Scientific	36785	N/A	S3ST002H061	1985	Replaced	No
Mechanical Snubber PSA 1/4	Pacific Scientific	38660	N/A	RSO 2181-91	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93110104 after failing investigative functional testing. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3).

Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A

Note:

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

Remarks: The replacement snubber was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Signed Min Supervising ASME Codes Engineer Date: Felr. 2 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1493/93 to 2/2/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 716. 2, 1994

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walant Grove Avenue, Rosenned, CA 91770

P.O. Box 450

P.O. Box 128, San Chemente, CA 92674-0128

San Opofre Nuclear Generating Station

Unit: CWO:

Sheet 1 of 1

93111783000 93111903000

93111786000 93111904000

93111810000 93111951000

DCP:

9C3AC7 40141A303

P&ID:

N-5:

83-1305-7

Type Code Symbol Stamp:

N/A

Identification of System:

Work Performed by:

Plant:

Condensate and Feedwater (1305)

Bechtel Construction Company

Sea Chomstele, CA 92674-0128

Authorization No: Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 8"74 Addenda (Piping), Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3"79 Addende

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yea/No
Round Bar Plug	Consolidated Power Supply	HT # 655 VNR	N/A	hem 17 CWO # 93111951000 DWO # 83-1305-ML-190 RSO # 3291-93	N/A	Replacement	No

Description of Work: Cut/Remove spool 3-FW-190-6 and associated hardward from line \$31305ML190 to rework Steam Generator Safe End, reinstall after rework; rework allow in accordance with NCR 93110128; Remove Gamma Plug on line \$31305ML190, reinstall with new weld 1.D.. Repair safe and of feedwater inlet per NCR 93110143. Fabricate a gamma plug for Steam Generator ME089/line 190.

Performed welds per the WR5/5A's and WFMCR's:

DWG #

WELD I.D.

93111786000

\$3-1305-ML-190,Sht 2

BZ, BZ(R-1), BZ(R-2), SBY, SBZ, BY,

93111810000

\$3-1305-ML-190,Sht 2

93110128

93111903000

\$3-1305-ML-190,Sht 2

SCA

Tests Conducted: VT-2 for CWO 93111786000, System Leakage [X] Pre-sure: 1000 psig Temp: 545°F

(Applicable Manufacturer's Data Reports to be attached)						
	CERT	TFICATE OF COMPLIANCE				
We certify that the sta	tements made in the report a	are correct and this replacement conforms to the rules of the ASME Code,				
Section XI.		***				
Type Code Symbol Sta	imp: N/A					
Certificate of Authoriz	ation No: N/A	Expiration Date: N/A				
Signed: But owner or o	Wher's Designes, Title	Atel Field Const. Mgs. Date: FEB. 18. 19.				
	CER*	TIFICATE OF INSPECTION				
I THE LINGSTEINSONAL BOIL		of his the Maximal Board of Bolles and Bonness Warrel Tomorrow and the first				
or Province of Califor Norwood, Massachuset to 2/24/9 // corrective measures de By signing this certific examinations and corrective in any manne	mae, and employed by Arker to have inspected the compo- and state that to the best secribed in this Owner's Repo- cate, neither the inspector no active measures described in	of by the National Board of Boiler and Pressure Vessel Inspectors and the State Priets Musual Insurance Company (Factory Musual Engineering Association) of popular described in this Owner's Report during the period 1997 of the of my knowledge and belief, the Owner has performed examinations and take out in accordance with the requirements of the ASME Code, Section XI. On his employer makes any warranty, expressed or implied, concerning the this Owner's Report. Furthermore, neither the Inspector nor his employer shape property damage or a loss of any kind arising from or connected with this				
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or Province of Califox Norwood, Massachuses to 2/24/94 corrective measures de By signing this certifi examinations and corre be liable in any manne inspection.	rais, and employed by Arkwitz have inspected the composite and state that to the best scribed in this Owner's Reposite the inspector no ective measures described in a for any personal injury or practice.	property Musual Insurance Company (Factory Musual Engineering Association) of opents described in this Owner's Report during the period 1/25/45/2 of my knowledge and belief, the Owner has performed examinations and take but in accordance with the requirements of the ASME Code, Section XI. On his employer makes any warranty, expressed or implied, concerning the this Owner's Report. Furthermore, neither the Inspector nor his employer shapproperty damage or a loss of any kind arising from or connected with this Commissions 1862 California				
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As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

3

93111909

S3-1201-10

40111ASO3 (E-5)

290-93

Type Code Symbol Stamp: N/A

Authorization No:

N/A

Identification of System:

Work Performed by:

Plant:

(a)

Reactor Coolant

Expiration Date:

Sheet 1 of 1

Unit:

MO:

RS:

P&ID:

N-5:

N/A

Southern California Edison Company

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, W73 Addenda, Code Cases: None

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
CEDM Housing Nut	Combustion Engineering	N/A	N/A	S31104CEDM	N/A	Repaired	No

Description of Work:

On CEDM Housing #55, the housing nut was seal welded to the ball seal housing. A PT examination was performed on the completed weld.

References: NCR 93110145, WR3-93-653

8 Tests Conducted: System Leakage [X] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 2250.734 psia Temp: 546.065 *F



Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/14 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11/29/93 to 1/14/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1
Owner: Southern California Edison Company Unit: 3

2244 Walnut Grove Avenue, Rosemeed, CA 91770 CWO: 03111208000

| 93111208001 | San Onofre Nuclear Generating Station | 93112099001 | P.O. Box 128, San Clemente, CA 92674-0128 | DCP: 3-6863.00-0

N/A

P.O. Box 128, Saz Clemente, CA 92674-0128 DCP: 3-6863.00-0
P&ID: 40112BSO3

Work Performed by: Becktel Construction Company N-5: \$3-1206-1

P.O. Box 450
San Clemeste, CA 92674-0128 Type Code Symbol Stamp:

Authorization No: N/A
4. Identification of System: Containment Spray (1206) Expiration Date: N/A

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 8'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	27770	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Disk (Stem Assembly)	Control Components	SN # M534560	N/A	Item 3 DWG # SO23-408-24-3-3 RSO # 3339-93	1993	Replacement	No

Description of Work:

Plant:

Disassemble and rework valve \$31206MU104 in support of NCR 93110062 disposition, and perform VT-2. Perform pressure test on the bonnet side of the valve.

8. Tests Conducted: VT-2 - System Functional [X] Pressure: 350 psig Temp: 75.8°F

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the Section XI.	e statements made in the report are correct and thisreplacements conforms to the rules of the ASME Code.
Type Code Symbo	il Stamp: N/A
Certificate of Aut	norization No: N/A Expiration Date: N/A
Signed: Bec Owner	or Owner's Designee, Title Bechtel Field Const. Mgr. Date: 3/4.199
	CERTIFICATE OF INSPECTION
By signing this o	estificate, 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 shall
be liable in any minspection.	anner for any personal injury or property damage or a loss of any kind arising from or connected with this
be liable in any minepection.	The Commissions 1862 California
be liable in any minepection.	Signature Commissions 1862 California (National Board, State, Province, and Endorsements)
be liable in any minspection. Inspector Date ###	Signature Commissions 1862 California (National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2344 Walnut Grove Avenue, Rosemead, CA 91770

Sheet 1 of 1

Unit:

MO: RS:

93112103

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

P&ID:

GEN-002, Rev. 3 40141ASO3 (F-7)

N-5:

S3-1305-8

Work Performed by:

Southern California Edison Company

Type Code Symbol Stamp:

N/A

Identification of System:

Authorization No:

N/A

Feedwater

(a)

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 10-6	Pacific Scientific	17978	N/A	S3FW189H010B	1991	Replaced	No
Mechanical Snubber PSA 10-6	Pacific Scientific	17968	N/A	RSO 1352-91	1991	Replacement	No

Description of Work:

The mechanical snubber listed above was replaced in accordance with NCR 93110165 after failing functional testing in accordance with SO23-1-2.39. The replacement snubber was functionally tested (VT-4) and, following installation, the support assembly was visually examined (VT-3). The removed snubber was placed into the rebuild program.

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

Note:

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

Remarks: The replacement snubber was certified to ASME III, Class 1.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/14

CERTIFICATE OF 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 California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

11/30/93 to 1/17/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions 186

(National Board, State, Province, and Endorsements)

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

Unit: 3 MO: 93120130

Sheet 1 of 1

2244 Walnut Grove Avenue, Rosemead, CA 91770

RS: 293-97

Plant: San Onofre Nuclear Generating Station P&ID: 40113 ASO3 (G-6)

P.O. Box 128, San Clemente, CA 92674-0128

S3-12(4-6 N-5:

3. Work Performed by: Southern California Edison Company

Type Code Symbol Stamp: Authorization No:

N/A

4 Identification of System: Safety Injection

Expiration Date:

N/A

N/A

S. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 579 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
%" x .065 Tubing	Trent Tube	973003	N/A	FGD-J3-PT-0311	1982	* * *	No
*4" x .065 Tubing	Sandvik Steel Co.	Hr. SW705	N/A	RSO 2953-93 SA-213, TP. 316	N/A	Replacement	No
Tubing Tee	Parker Hannifin Corp.	Ht. Code CBYH	N/A	RSO 2370-93 SA-182, TP 316	N/A	Replacement	No

Description of Work:

Note:

A section of tubing and a tubing tee located between pressure transmitters 3PT0312 and 3PT0313 were replaced.

.'eference: NCR 93120003

Tests Conducted: System Leakage [] System Functional [X] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: 618 psia Temp: N/A

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

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

ABM Supervising ASME Codes Engineer Date: Feb. / 1994

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period

1018193 to 201194 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

1862

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

Date

Feb. 1, 1994

As Required by the Provisions of the ASME Code Section XI

			Sheet 1 of	8	
. A.	Owner: Southern Califo	rnie Edison Company	Unit:	3	
	2244 Walnut Gr	ove Averase, Rosemead, CA 91770	Traveler:	803-93-001	
			CWO:	93032459000	
2.	Plant San Onofre Nuc	clear Generating Station		93080872000	
	P.O. Box 128, S	an Clemente, CA 92674-0128		93080872001	
			DCP:	3-6863.00SN	
3.	Work Performed by:	Bechtel Construction Company	P&ID:	40112BSO3 & 40	0114ASO3
		P.O. Box 450	N-5	\$3-1201-4	
		San Clemente, CA 92674-0128			
			Type Code	Symbol Stamp:	N/A
4.	Identification of System:	Shutdown Cooling System (1201)	Authorizat	ion No:	N/A
			Expiration	Date:	N/A
5.	(a) Applicable Cons	struction Code: ASME Section III, Class 2, 19	74 Edition, 3*74 Ac	idenda; ASME Sect	tion III, Class
	1074 Edwin 61	TEALS ARREST NO THE CO. O. LONG.	AND ADDRESS OF THE PARTY OF THE	and the same of th	

- a 2. 1974 Edition, S'75 Addenda; ASME Section III, Class 2, 1971 Edition, S'73 Addenda; Code Cases: None
 - Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda
- Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
l"xi"xi"Tee BW Sch. 40s	Hub Inc.	HT # E5	N/A	Item 6 ISO # \$3-1201-ML-045 Sht. 1 RSO # 2693-93	N/A	Replacement	No

Description of Work:

Verify code materials, fabricate & install piping & hangers per Dwgs. S3-1201-ML-045 Sht. 1, S3-1201-ML-134 Sht. 1. \$3-1201-ML-321 Sht. 1 thru 4, \$3-1201-ML-322 Sht. 1, \$3-1201-ML-323 Sht. 1, \$3-RC-017-H-084, \$3-RC-134-H-006, \$3-RC-134-H-008, \$3-RC-321-H-004 & \$3-RC-321-H-008.

Performed the following welds in accordance with WR-5/5A's and WFMCR's.

VT-2 - Hydrostatic at 546 psig @ 71.4°F VT-3 - per procedure G005 - Rev. 5

Drawing	Welds
\$3-1201-ML-045 Sht. 1	F(C-1), G(C-1), H, SJ
\$3-1201-ML-134 Sht. 1	MA, MB, MC, MD, SC, S, T, U, SD
\$3-1201-M1321 Sht. 1	P. Q. R. S. T. U. V. W. W(R-1), X. Y. Z. MA, SMQ, MR, SMS
\$3-1201-ML-3215ht. 2	BA, BB, BC, BD, BD(R-1)/(Window), BE, BF, BG, BH, BJ, BK, BL, BM, BM(R-1), BN, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BX(R-1), BY, BZ, NA, NB, NC, ND, SNE, SNF, NG, NH, SNJ, SNK
S3-1201-ML-321Sht. 3	CA, CB(C-1), CC, CD, CE, CF, CG, CH, CJ, CK, CL, CM, CM(R-1), CN, CP, CQ, CR, CS, CT, CT(R-1), CU, CV, CW, CX, CY, CZ, PA, PB, PD, PD(R-1), PE, PF, PG, PH, PJ, SPK, PL, PM, PN, SPP
\$3-1201-ML-321 Sht. 4	DA, DB, DC, DD, DE, DF, DG, DH, DJ, DK, DL
S3-1201-ML-322 Sht. 1	N, P, SQ, R, S
\$3-1201-ML-323 Sht. 1	A, B, C, D(C-2), E, F(C-1)
S3-RC-017-H-084	на, нв
S3-RC-134-H-006	HA, HB
\$3-RC-134-H-008	HA, HB
S3-RC-321-H-004	SA, SB, SC, SD
S3-RC-321-H-008	SA, SB, SC, SD
Tests Conducted: VT-2 - I	fydrostatic at 142.5psig @ 71.4°F

FORM NIS-2 (back)

CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI. Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Signed: But Company Placement of Authorization No: N/A CERTIFICATE OF INSPECTION It the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of California, and employed by Arthright Munical Insurance Company Placetory Mutual Engineering Association Norwood, Massachusetts, have inspected the components described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer she hiable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions California (National Board, State, Province, and Endorsements)		(Applicable N	fanufacturer's Data Reports to be at	tached)
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Signed: Bat L. Common Berital L. Cod Charletter (1940). Date: Mellich Z. 18 Owner or Owner's Designee, Title CERTIFICATE OF INSPECTION I. the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkevight Munual Insurance Company (Factory Munual Engineering Association) Norwood, Massachusetts have inspected the components described in this Owner's Report during the period STT ST		CERT	IFICATE OF COMPLIANCE	E
CERTIFICATE OF INSPECTION I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkevight Munical Insurance Company (Factory Mutual Engineering Association) Norwood, Massachusetts have inspected the components described in this Owner's Report during the period State that to the best of my knowledge and belief, the Owner has performed examinations and take corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer she be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Californis Inspector's Signature Commissions Californis (National Board, State, Province, and Endorsements)		statements made in the report a	re correct and thisreplacement	conforms to the rules of the ASME Code
CERTIFICATE OF INSPECTION I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of California, and employed by Artwright Munial Insurance Company (Factory Munial Engineering Association). Norwood Massachusetts have inspected the components described in this Owner's Report during the period 1779 and state that to the best of my knowledge and belief, the Owner has performed examinations and take corrective theasures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer she had been in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. California (National Board, State, Province, and Endorsements)	Type Code Symbo	l Stamp: N/A		
CERTIFICATE OF INSPECTION I. the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) Norwood, Massachusetts have inspected the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the Owner has performed examinations and take corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer she be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. California California (National Board, State, Province, and Endorsements)	Certificate of Aut	orization No: N/A	Expiration Date: N/A	
I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Munual Insurance Company (Factory Munual Engineering Association). Norwood, Massachusetts have inspected the components described in this Owner's Report during the period of the State of the State that to the best of my knowledge and belief, the Owner has performed examinations and take corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shade 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 Inspector's Signature Commissions (National Board, State, Province, and Endorsements)	Signed: B. 3	or Owner's Designee, Title	Fire Part Patris	mgs. Date: March 7.1
I. the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Munual Insurance Company (Factory Munual Engineering Association). Norwood, Manaschusetts have inspected the components described in this Owner's Report during the period of the Association				
Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3/7/94. and state that to the best of my knowledge and belief, the Owner has performed examinations and take corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer she 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 California (National Board, State, Province, and Endorsements)		CERT	TIFICATE OF INSPECTION	
Date 21124 7, 1994	By signing this c examinations and be liable in any m inspection.	ertificate, neither the Inspector no corrective measures described in tanner for any personal injury or p	or his employer makes any warranty, this Owner's Report. Furthermore, property damage or a loss of any kind Commissions	expressed or implied, concerning the neither the Inspector nor his employer sld arising from or connected with this
	Date Mark	7, 1994		
SI Engineer Review: Arun H. Mahindratar Dese: 3-4-94				

Plant:

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemesd, CA 91770

San Onotre Nuclear Generating Station P.O. Box 128, San Clemente, CA 92674-0123

Work Performed by: Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Identification of System: Shutdown Cooling System (1201) Sheet 2 of 8 Unit: 3

Traveler: \$03-93-001

CWO 93032459000

93080872000 93080872001

DCP: 3-6863.00SN

P&ID: 40112BSO3 & 40114ASO3

N-5: \$3-1201-4

Type Code Symbol Stamp:

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

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 3'74 Addenda; ASME Section III, Class 2, 1974 Edition, S'75 Addenda; ASME Section III, Class 2, 1971 Edition, S'73 Addenda; Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1"x3/4" Swage Sch. 40s	Consolidated Power	HT # P845TNA	N/A	Item 7 ISO # \$3-1201-ML-045 Sht. 1 RSO # 2436-93	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 21 ISO # \$3-1201-ML-1348ht. 1 RSO # 2273-93	N/A	Replacement	No
10"x10"x10"Tee BW Sch. 20	Consolidated	HT # LIEH-1	N/A	Item 22 ISO # \$3-1201-ML-1348ht. 1 RSO # 2436-93	N/A	Replacement	No
3/4" Pipe Nipple 3" LG BBE Sch. 40	Sandvik	HT # SW 773	N/A	Item 24 ISO # \$3-1201-ML-134Sht. 1 RSO # 2010-93	N/A	Replacement	No
3/4* Pipe Nipple 4* LG BOExPOE	Sandvik	HT # 5W 773	N/A	Item 25 ISO # \$3-1201-ML-134Sht. 1 RSO # 2010-93	N/A	Replacement	No
10"x3/4" Weldolet Sch. 40	WFI	HT # 691VNA2	N/A	Item 26 ISO # \$3-1201-ML-1345ht. 1 RSO # 2248-93	N/A	Replacement	No
3/4" 90" Elbow 8W Sch. 40	Taylor Forge	HT # LGFD-1	N/A	Item 27 ISO # \$3-1201-ML-1345ht. 1 RSO # 2263-93	N/A	Replacement	No
10° Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 3 - 7, 9 ISO # 53-1201-ML-321 Sht. 1 RSO # 2273-93	N/A	Replacement	No
10" Pipe Sch. 20	Trent tube	HT # 712101	N/A	Item 8 ISO # S3-1201-ML-321 Sht. 1 RSO # 2281-93		Replacement	No
10*90*Elbow BW Sch. 20	Taylor Forze	HT # LIYC-I	N/A	Item 14, 15, 17 ISO # 83-1201-ML-321 Sht. 1 RSO # 2263-93	N/A	Replacement	No
10*90°SK Elbow BW Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 16 ISO # \$3-1201-ML-321 Sht. 1 RSO # 2263-93		Replacement	No
10"x3/4" Weldolet Sch. 40s	WFI	HT # 540TNA	N/A	Item 60 ISO # \$3-1201-ML-321 Sht. 1 RSO # 0305-93		Replacement	No

Identification of System:

Sheet 3 of 8 Owner: Southern California Edison Company

Unit: 3 Traveler: SO3-93-001 Z244 Walnut Orove Avenue, Rosemend, CA 91770 CWO: 93032459000

San Onofre Nuclear Generating Station 93080872000 P.O. Box 128, San Clemente, CA 92674-0128 93080872001 DCP: 3-6863.005N

Shutdown Cooling System (1201)

Work Performed by Bechtel Construction Company P&ID: 40112BSO3 & 40114ASO3 P.O. Box 450 N-5: \$3-1201-4

San Clemente, CA 92674-0128

NIA Authorization No: Expiration Date: N/A

NA

Type Code Symbol Stamp:

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda; ASME Section III, Class 2, 1974 Edition, 5'75 Addenda; ASME Section III, Class 2, 1971 Edition, S'73 Addenda; Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$"79 Addenda (b)

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Pipe Nipple 3" LG PBE Sch 40s	Sandvik	HT # SW 773	N/A	item 61 ISO # \$3-1201-ML-321 Sht. 1 RSO # 2010-93	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 1 - 11 ISO # \$3-1201-ML-321 Sht. 2 RSO # 2273-93	N/A	Replacement	No
8" Pipe Sch. 20	Trent Tube	HT # 130465W	N/A	Item 12, 13 ISO # \$3-1201-ML-321 Sht. 2 RSO # 2321-93	N/A	Replacement	No
10°90° SR Elbow BW Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 14 - 17 ISO # \$3-1201-ML-321 Sht. 2 RSO # 2263-93	N/A	Replacement	No
10*90° Elbow BW Sch. 20	Taylor Forge	HT # LIYC-1	N/A	Item 18 ISO # \$3-1201-ML-321 Shr. 2 RSO # 2263-93		Replacement	No
10*90°SR Elbow Sch 20	Taylor Forge	HT # LIYC-2	N/A	Item 19, 20 ISO # S3-1201-ML-321 Sht. 2 RSO # 2263-93	N/A	Replacement	No
10" 45° Elbow BW Sch. 20	Taylor Forge	HT # LIYC-1	N/A	Item 21, 22, 23 ISO # \$3-1201-ML-321 Sht. 2 RSO # 2263-93	N/A	Replacement	No
8° 45° Elbow BW Sch. 20	Taylor Forge	HT # LIYA-1	N/A	Item 24, 25 ISO # S3-1201-ML-321 Sht. 2 RSO # 2263-93	N/A	Replacement	No
10*x10"x8 Reducing Tee BW Sch. 20	Taylor Forge	HT # LIYN-1	N/A	Item 26 ISO # 83-1201-ML-321 Sht. 2 RSO # 2263-93	N/A		No
10"x3/4" Weldolet Sch. 40s	WFI	HT # 691VNA2	N/A	Item 27 ISO # S3-1201-ML-321 Sht. 2 RSO # 2248-93	N/A	Replacement	No
10"x1"Weldolet Sch. 40s	WFI	HT # 988 SNA	N/A	Item 28 ISO # \$3-1201-ML-321 Sht. 2 RSO # 0305-93		Replacement	No
3/4° Pipe Nipple 5° LG BOExPOE Sch 40s	Sandvik	HT # SW 773	N/A	Item 29 ISO # \$3-1201-ML-321 Sht. 2 RSO # 2010-93		Replacement	No

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemend, CA 91770

San Opofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by: Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Identification of System: Shutdown Cooling System (1201) Sheet 4 of 8

Unit: 3

Traveler: \$03-93-001

CWO: 93032459000

93080872000 93080872001

DCP: 3-6863.00SN

P&ID: 40112BS03 & 40114AS03

N-5: 83-1201-4

Type Code Symbol Stamp:

Authorization No:

N/A N/A

Expiration Date:

NIA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda; ASME Section III, Class 2, 1974 Edition, S'75 Addenda; ASME Section III, Class 2, 1971 Edition, S'73 Addenda; Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3'79 Addenda (b)

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" Pipe Nipple 5" LG BOEXPOE	Sandwick Steel	HT # 461879	N/A	Item 30 ISO # \$3-1201-ML-321 Sht. 2 RSO # 2010-93	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 37 ISO # 53-1201-ML-321 Sht. 2 RSO # 2273-93	N/A	Replacement	No
10* Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 1, 3 ISO # S3-1201-ML-321 Sht. 3 RSO # 2273-93		Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 2 ISO # S3-1201-ML-321 Sht. 3 RSO # 2281-93		Replacement	No
8" Pipe Sch. 20	Trent Tube	HT # 130465W	N/A	Item 4,5 ISO # \$3-1201-ML-321 Sht. 3 RSO # 2321-93		Replacement	No
12" Pipe Sch. 20	Trent Tube	HT # 2B186	N/A	Item 6, 9, 10, 12 ISO # S3-1201-ML-321 Sht. 3 RSO # 2321-93		Replacement	No
12* Pipe Sch. 20	Trent Tube	HT # C30240E	N/A	Item 7, 8, 11, 13, 14 ISO # S3-1201-ML-321 Sht. 3 RSO # 2321-93		Replacement	No
12" Pipe Sch. 20	Trent Tube	HT # Y6942S	N/A	Item 16 - 19 ISO # 83-1201-ML-321 Sht. 3 RSO # 2321-93		Replacement	No
12* Pipe Sch. 20	Trent Tube	HT # 2B186	N/A	Item 20 ISO # \$3-1201-ML-321 Sht. 3 RSO # 2321-93		Replacement	No
10° 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 21 ISO # \$3-1201-ML-321 Sht. 3 RSO # 2263-93	N/A	Replacement	No
8* 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LIYA-1	N/A	Item 22, 23, 24 ISO # 53-1201-ML-321 Sht. 3 RSO # 2263-93		Replacement	No
12*90*SR Elbow BW Sch. 20	Taylor Forge	HT # LIGJ-1	N/A	Item 25, 26 ISO # \$3-1201-ML-321 Sht. 3 RSO # 2390-93		Replacement	No

Plant:

Owner: Southern California Edison Company

2244 Walmit Grove Avenue, Rosemesd, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by: Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Identification of System: Shutdown Cooling System (1201)

Sheet 5 of 8 Unit:

Traveler: \$03-93-001

CWO: 93/732459000

> 93080872000 93080872001

DCP: 3-6863.00SN

P&ID: 40112BSO3 & 40114ASO3

N-5: \$3-1201-4

Type Code Symbol Stamp:

N/A Authorization No: N/A

Expiration Date:

N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda; ASME Section III, Class 2, 1974 Edition, S'75 Addenda; ASME Section III, Class 2, 1971 Edition, S'73 Addenda; Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
12°90° Elbow BW Sch. 20	Taylor Forge	HT # LIUK-1	N/A	Item 27, 28, 29 ISO # 83-1201-ML-321 Sht. 3 RSO # 2313-93		Replacement	No
10°90°SR Elbow BW Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 30 ISO # \$3-1201-ML-321 Sht. 3 RSO # 2263-93	N/A	Replacement	No
10"x8"Ecc. Reducer BW Sch. 20	Taylor Forge	HT # LIYN-I	N/A	Item 31 ISO # \$3-1201-ML-321 Sht. 3 RSO # 2263-93	N/A	Replacement	No
12°x8°Ecc. Reducer BW Sch. 20	Consolidated	HT # LIUK-1	N/A	Item 32 ISO # S3-1201-ML-321 Sht. 3 RSO # 2436-93		Replacement	No
12"x1"Weldolet Sch. 40s	WFI	HT # 988 SNA	N/A	Item 33 ISO # \$3-1201-ML-321 Sht. 3 RSO # 0305-93		Replacement	No
1" Pipe Nipple 5" LG BBE Sch. 40s	Sandvik	HT # 461879	N/A	Item 34 ISO # \$3-1201-ML-321 Sht. 3 RSO # 2010-93	N/A	Replacement	No
1* 90* Elbow BW Sch. 40s	Taylor Forge	HT # LIMQ-1	N/A	Item 35 ISO # \$3-1201-ML-321 Sht. 3 RSO # 2263-93		Replacement	No
1" Pipe Nipple 5" LG BOExPOE	Sandvik	HT # 461879	N/A	Item 36 ISO # S3-1201-ML-321 Sht. 3 RSO # 2010-93		Replacement	No
10* 45° Elbow BW Sch. 20	Consolidated	HT # LIOJ-1	N/A	Item 40 ISO # S3-1201-ML-321 Sht. 3 RSO # 0895-93		Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 1, 2, 3, 5, 6, 7 ISO # \$3-1201-ML-321 Sht. 4 RSO # 2281-93		Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 4 ISO # \$3-1201-ML-321 Sht. 4 RSO # 2273-93		Replacement	No
10*90°Elbow BW Sch. 20	Taylor Forge	HT # LIYC-1	N/A	Item 9, 11 ISO # \$3-1201-ML-321 Sht. 4 RSO # 2263-93		Replacement	No

Owner Southern California Edison Company

2244 Walmst Grove Avenue, Rosemead, CA 91770

Plant: San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

3. Work Performed by:

Bechtel Construction Company

P.O. Box 450

San Clemente, CA 92674-0128

Identification of System: Shundown Cooling System (1201)

Sheet 6 of 8 Unit: 3

Traveler: SO3-93-001

CWO: 930

93032459000

93080872000

93080872001

DCP: P&ID:

3-6863.00GN 40112BSO3 & 40114ASO3

N-5: \$3-1201-4

Type Code Symbol Stamp:

anip.

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

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda; ASME Section III, Class 2, 1974 Edition, S'75 Addenda; ASME Section III, Class 2, 1971 Edition, S'73 Addenda; Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 8'79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
10° 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 10 ISO # 53-1201-ML-321Sht. 4 RSO # 2263-93	N/A	Replacement	No
12"x10"Ecc Reducer Sch. 20	Taylor Forge	HT # LIUK-I	N/A	Item 13 ISO # \$3-1201-ML-3215ht. 4 RSO # 2263-93	N/A	Replacement	No
8" Pipe Sch. 20	Consolidated Power Supply	HT # 222006	N/A	Item 5 ISO # S3-1201-ML-322 Sht. 1 RSO # 0662-93	N/A	Replacement	No
8" Pipe Sch. 20	Trent Tube	HT # 130465W	N/A	Item 6 ISO # \$3-1201-ML-322 Sht. 1 RSO # 2321-93		Replacement	No
8" 90° Elbow BW Sch. 20	Taylor Forge	HT # LIYA-I	N/A	Item 10 ISO # S3-1201-ML-322 Sht. 1 RSO # 2263-93	N/A	Replacement	No
10"x8"Concentic Reducer BW Sch. 20	Taylor Forge	HT # LIYN-I	N/A	Item 18 ISO # S3-1201-ML-322 Sht. I RSO # 2263-93	N/A	Replacement	No
8"x3/4" Weldolet Sch. 40s	WFI	HT # 691VNA2	N/A	Itom 19 ISO # \$3-1201-ML-322 Sht. 1 RSO # 2248-93		Replacement	No
3/4° Pipe Sch. 40a	Sandvik	HT # 5W 773	N/A	Item 1, 2, 3 ISO # S3-1201-ML-323 Sht. 1 RSO # 2010-93		Repiscement	No
3/4* 90° Elbow BW Sch. 40s	Flowline	HT # 89697	N/A	Item 4 ISO # 53-1201-ML-323 Sht. 1 RSO # 2230-93		Replacement	No
3/4" 90° Elbow BW Sch. 40s	Taylor Forge	HT # LGFD-1	N/A	Item 5 ISO # 53-1201-ML-323 Sht. 1 RSO # 2263-93		Replacement	No
3/4" Flange 150# RFWN Sch. 40s	Hub	HT # D4230	N/A	Item 6 ISO # 53-1201-ML-323 Sht. 1 RSO # 2437-93		Replacement	No
1/2" Stud Bolts 2-3/4" LG	Cardinal	HT # E5	N/A	Item 7 ISO # \$3-1201-ML-323 Sht. 1 RSO # 0849-93		Replacement	No

Plant:

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemend, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by: Bechtel Construction (

Sechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

d Identification of System Shutdown Cooling System (1201)

Sheet 7 of 8

Unit: 3

Traveler: \$03-93-001

CWO: 93032459000

93080872000

93080872001

DCP: 3-6863.00SN

P&ID: 40112BSO3 & 40114ASO3

N-5: \$3-1201-4

Type Code Symbol Stamp:

N/A

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

(a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 8"74 Addenda; ASME Section III, Class 2, 1974 Edition, 5"75 Addenda; ASME Section III, Class 2, 1971 Edition, 5"73 Addenda; Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1/2" Hex Nuts	Nova Machine	HT # 8079541	N/A	Item 8 ISO # 83-1201-ML-323 Sht. I RSO # 1715-93	N/A	Replacement	No
3952RR1 Rigid Strut	Lisega	HT # R522D	N/A	Item 61 DWG # S3-RC-134-H-006 RSO # 2479-93	N/A	Replacement	No
3552RR1 Rear Bracket	Lisega	HT #Z56-Bolts HT # AS524- Bracket	N/A	Item 63A (2 sa) DWG # S3-RC-134-H-006 RSO # 2479-93	N/A	Replacement	No
3952RR1 Rigid Strut	Lisega	HT # R541D	N/A	Item 61 DWG # S3-RC-134-H-008 RSO # 2479-93		Replacement	No
3552RRI Rear Bracket	Lisega	HT # AS524	N/A	Item 63 (2 es) DWG # 53-RC-134-H-008 RSO # 2479-93		Replacement	No
1"x2"x6"Lug SS	Allegheny	HT # 856791	N/A	Item 38 (2 ee) DWG # S3-RC-321-H-004 RSO # 0453-93	N/A	Replacement	No
1"x2"x6"Lug SS	Allegheny	HT # 856791	N/A	Item 38 (2 ea) DWG # 53-RC-321-H-008 RSO # 0453-93	N/A	Replacement	No
3/4" Gate Valve SW	Vogt	SN # 6-216845	N/A	Item 8 (\$31201MR229) ISO # \$3-1201-ML-045 Sht. 1 RSO # 2048-93	1993	Replacement	Yea
10" Gete Valve BW	Control Components	SN # 610291-6-1	N/A	Item 23 (S31201MU994) ISO # S3-1201-ML-1345ht. 1 RSO # 1229-93		Replacement	Yea
3/4* Gate Valve SW	Vogt	SN # 18-216845	N/A	Item 28 (\$31201MR233) ISO # \$3-1201-ML-1345ht. 1 RSO # 2048-93		Replacement	Yes
10" Gate Valve BW	Control Components	SN # 610291-4-2	N/A	Item 59 (\$31201MU993) ISO # \$3-1201-ML-3218ht. 1 RSO # 1982-93		Replacement	Yes
3/4" Gate Valve SW	Vogt	SN # 8-216845	N/A	Item 62 (\$31201MR231) ISO # \$3-1201-ML-321 Sht. 1 RSO # 2048-93		Replacement	Yes

Plant:

Owner: Southern California Edison Company ZZ44 Walmit Grove Avenue, Rosemend, CA 91770

Traveler: \$03-93-001 CWO:

San Onofre Nuclear Generating Station 93080872000 P.O. Box 128, San Clemente, CA 92674-0128 93080872001 DCP: 3-6863.00SN

Sheet 8 of 8

3

93032459000

N/A

Unit:

Work Performed by: Bechtel Construction Company P&ID: 40112BSO3 & 40114ASO3 P.O. Box 450 N-5: S3-1201-4 San Clemente, CA 92674-0128

Type Code Symbol Stamp: Identification of System: Shutdown Cooling System (1201) Authorization No: N/A Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda; ASME Section III, Class 2, 1974 Edition, S'75 Addenda; ASME Section III, Class 2, 1971 Edition, S'73 Addenda; Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$'79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	1	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4° Gate Valve SW	Vogt	SN # 9-216845	N/A	Item 31 (S31201MR230) ISO # S3-1201-ML-321 Sht. 2 RSO # 2048-93	1993	Replacement	Yes
l" Gate Valve SW	Vogt	SN # 7-215457	N/A	Item 32 (S31201MR232) ISO # S3-1201-ML-321Sht. 2 RSO # 1592-87	1987	Replacement	Yes
l" Gate Valve SW	Vogt	SN # 12-215457	N/A	Item 37 (S31201MR234) ISO # S3-1201-ML-321 Sht. 3 RSO # 1592-87	1987	Replacement	Yes
10" Gate Valve BW	Control Components	SN # 610291-4-1	N/A	Item 27 (\$31201MU992) ISO # \$3-1201-ML-322 Sht. 1 RSO # 1526-93	1993	Replacement	Yes
3/4"x1" Relief Valve	Crosby Valves	SN # N60533-00- 0018	N/A	Item 34 (3PSV-1575) ISO # \$3-1201-ML-323 Sht. 1 RSO # 0349-93	1993	Replacement	Yes

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 3 Owner: Southern California Edison Company Unit 2244 Walms Grove Avenue, Rosemend, CA 91770 Traveler: \$03-93-002 CWO 93080872000 Plant: San Onofre Nuclear Generating Station 93080872001 P.O. Box 128, San Clemente, CA 92674-0128 93032459000 MMP: 3-6863.00 Bechtel Construction Company Work Performed by: P&ID: 40112BSO3 & 40114BSO3 P.O. Box 450 N-5 \$3-1206-1 San Clemente, CA 92674-0128 Type Code Symbol Stemp NIA Identification of System: Containment Spray (1206) Authorization No: NA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addends (Piping), ASME Section III, Class 2, 1974 Edition, S'75 Addends (Valves), ASME Section III, Subsection "NC", 1974 Edition, S'74 Addends (Dummy Pipe), ASME Section III, Subsection "NF" 1974 Edition, S'74 Addends (Pips Support), Code Cases: None

Expiration Date:

N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addende

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serie! No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Half Coupling	Consolidated	HT # 832VNA	N/A	Item 35,37 ISO # S31206ML001 RSO # 2436-93	N/A	Replacement	No
3/4 Thermowell	Conex	HT # AH6056	N/A	ftem 36,38 ISO # S31206ML001 RSO # 1077-93	N/A	Replacement	No
3/4 Half Coupling 3000#	Consolidated	HT # 832VNA	N/A	Item 29 ISO # 531206ML002 RSO # 2436-93	N/A	Replacement	No
3/4" Thermowell	Conex	HT # AH6056	N/A	Item 30 ISO # \$31206ML002 RSO # 1077-93	N/A	Replacement	No

 Description of Work: Modify lines \$31206ML032 and ML033 to accommodate new heat exchanger block valves, and Lines \$31206ML001 and ML002 to add thermocouples. Also install code portion of pipe support \$3-CS-009-H-009.

Performed welds per the WR5/5A's and WFMCRs:

| WELD I.D. | SG, SH, SJ, SK | SMA, SMB, SMC, SMD | SMA, MB, MC, MD | SMA, MB, MC | SMA, MA, MB, MC | SMA, MB, MC | SMA, MA, MB, MC | SMA, MA, MB, MC | SMA, MA, MB, MC | SMA, MB,

VT-3 performed in accordance with Procedure G-005, Rev. 5

8. Tests Conducted: VT-2 Hydrostatic [X] Pressure: 775 psig Temp: 71.4°F, per CWO 93032459000

FORM NIS-2 (back)

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the Section XI.	se statements made in the report are correct and thisreplacement conforms to the rules of the ASME Code,
Type Code Symbo	ol Stamp: N/A
Certificate of Aut	horization No: N/A Expiration Date: N/A
Signed B. S. Owner	or Owner's Designee, Title
	CERTIFICATE OF INSPECTION
corrective meaning	and state that to the best of my knowledge and belief, the Owner has performed exeminations and taken
By signing this cexaminations and be liable in any minspection.	and state that to the best of my knowledge and belief, the Owner has performed examinations and taken as described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. Description of 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 shall manner for any personal injury or property damage or a loss of any kind arising from or connected with this anner for any personal injury or property damage or a loss of any kind arising from or connected with this anner for any personal injury or property damage. California (National Board, State, Province, and Endorsements)
By signing this cexaminations and be liable in any minspection.	es described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. certificate, 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 shall same for any personal injury or property damage or a loss of any kind arising from or connected with this Commissions Signature California (National Board, State, Province, and Endorsements)
By signing this cexaminations and be liable in any minspection. Date Male	es described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. certificate, 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 shall same for any personal injury or property damage or a loss of any kind arising from or connected with this Commissions Signature California (National Board, State, Province, and Endorsements)

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemesd, CA 91770

Plant: San Onofre Nuclear Generating Station

Work Performed by:

Identification of System:

(a)

P.O. Box 128, San Clemente, CA 92674-0128

Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Containment Spray (1206)

Type Code Symbol Stamp:

Sheet 2 of 3

Traveler: \$03-93-002

Authorization No:

93080872000

93080872001

93032459000

40112BSO3 & 40114BSO3

NA N/A

3-6863.00

\$3-1206-1

Unit:

CWO:

MMP:

P&ID:

N-5:

N/A Expiration Dete

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S*74 Addenda (Piping), ASME Section III, Class 2, 1974 Edition, S'75 Addenda (Valves), ASME Section III, Subsection "NC", 1974 Edition, S'74 Addenda

(Dummy Pipe), ASME Section III, Subsection "NF" 1974 Edition, S"74 Addenda (Pipe Support), Code Cazes: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3*79 Addends

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Half Coupling 3000#	Consolidated	HT # 832VNA	N/A	Item 31 ISO # S31206ML002 RSO # 2436-93	N/A	Replacement	No
3/4 Thermowell	Conex	HT # AH6056	N/A	Item 32 ISO # \$31206ML002 RSO # 1077-93	N/A	Replacement	No
12*90°Elbow, Sch. 20	Taylor Forge	HT # LDKK-1	N/A	Item 56 ISO # \$31206ML032 RSO # 2351-93	N/A	Replacement	No
12 90° Elbow, Sch. 20	Taylor Forge	HT # LBCK-1	N/A	Item 57 ISO # S31206ML032 RSO # 2390-93	N/A	Replacement	No
12° Pipe, Sch. 20	Trent Tube	HT # C38244E	N/A	Item 58 ISO # \$31206ML032 RSO # 2321-93	N/A	Replacement	No
12" Pipe, Sch. 20	Trent Tube	HT # C38244E	N/A	item 52 ISO # S31206ML033 RSO # 2321-93	N/A	Replacement	No
12* 90° Elbow	Taylor Forge	HT # LIGJ-1	N/A	Item 53 ISO # S31206ML033 RSO # 2351-93	N/A	Replacement	No
12° Pipe, Sch. 20	Trent Tube	HT # C38244E	N/A	Item 54 ISO # S31206ML033 RSO # 2321-93	N/A	Replacement	No
12* Flange 300#, Sch 20	Consolidated Power	HT # 896VNE	N/A	Item 55 ISO # \$31206ML033 RSO # 2436-93	N/A	Replacement	No
12* Weldolet, Sch. 40s	WFI	HT # 540TNA	N/A	Item 56 ISO # S31206ML033 RSO # 0305-93		Replacement	No
3/4" Pipe Nipple BOExPOE, Sch.40s	Sandvik	HT # SW773	N/A	Item 57 ISO # S31206ML033 RSO # 2010-93		Replacement	No

Sheet 3 of 3 Owner: Southern California Edison Company Unit: 2244 Walnut Grove Avenue, Rosennead, CA 91770 Traveler: SO3-93-002 CWO: 93080872000 Plant: San Onofre Nuclear Generating Station 93080872001 P.O. Box 128, San Clemente, CA 92674-0128 93032459000 MMP: 3-6863.00 Work Performed by: Bechtel Construction Company P&ID: 40112BSO3 & 40114BSO3 P.O. Box 450 N-5: S3-1206-I San Clemente, CA 92674-0128 Type Code Symbol Stamp: N/A Identification of System: Containment Spray (1206) Authorization No: N/A Expiration Date: NA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addends (Piping), ASME Section III, Class 2, 1974 Edition, S'75 Addends (Valves), ASME Section III, Subsection "NC", 1974 Edition, S'74 Addends (Dummy Pipe), ASME Section III, Subsection "NF" 1974 Edition, S'74 Addends (Pipe Support), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired. Replaced, or Replacement	ASME Code Stamped Yes/No
6" Dummy Pipe Sch. 40	Trent Tube	HT # 120329	N/A	Item 30 ISO # \$3C\$032H009 RSO # 0913-93	N/A	Replacement	No
1/2° Plate	Bethlehem Steel	HT # 402E9811	N/A	Item 31 ISO # \$3C\$032H009 RSO # 0357-93	N/A	Replacement	No
Rigid Strut 3942RR1	Lisega	HT # R422D	N/A	Item 61 ISO # \$3C\$032H009 RSO # 2479-93	N/A	Replacement	No
Rear Bracket 3542RR1	Lisega	HT # Bolts-Z56 HT # Bracket- AS524	N/A	Item 63 (2 ea) DWG # \$3C\$032H009 RSO # 2479-93	N/A	Replacement	No
3/4" Gate Valve S31206MR073	Vogt	SN # 13-216845	N/A	Item 58 ISO # \$31206ML033 RSO # 2048-93		Replacement	Yes

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemesd, CA 91770

2. Sas Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Bechtel Construction Company Work Performed by:

P.O. Box 450

San Clemente, CA 92674-0128

Identification of System: Safety Injection (1204) Sheet 1 of 7

Unit:

Traveler: SO3-93-003

CWO: 93032459000

93080872000 93080872001

3-6863.00

MMP: P&ID: 40114A

N-5

S3-1204-21

Type Code Symbol Stamp:

N/A

Authorization No: Expiration Date:

N/A NA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addends (Piping), ASME Section III, (a) Class 2, 1974 Edition, S'75 Addenda (Valves), ASME Section III, Subsection "NF", 1974 Edition, S'74 Addenda (Pipe Support), Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 8"79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASMF Code Stamped Yes/No
10° Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 1, 2 ISO # \$3-1201-ML321 RSO # 2273-93	N/A	Replacement	No
8° Pipe Sch. 20	Trent Tube	HT # 130465W	N/A	Item 10, 11 ISO # 53-1201-ML321 RSO # 2321-93	N/A	Replacement	No
16" Pipe Sch. 20	Trent Tube	HT # 18926	N/A	Item 12 ISO # 53-1201-ML321 RSO # 2321-93	N/A	Replacement	No
10° 90° Elbow, Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 13 ISO # \$3-1201-ML321 RSO # 2263-93	N/A	Replacement	No

Description of Work: Tie-In Line \$3-1201-ML-321 to CS Pumps Suction Lines \$3-1204-ML-003/004. Also install Code portions of pipe supports \$3-\$1-004-H-036 and \$3-\$1-004-H-037.

Performed welds per the WR5/5A's and WFMCR's:

150 # 53-SI-004-H-036 WELD I.D.

S3-S1-004-H-037

HA. HB

HA, HB

\$3-1201-ML-321.SHT. 1

A, B, C, C(R-1), D, E, F, G, H, J, K, L, M, N, SMB, SMC, SMD, ME, MF, MG(C-1), MG(C-1)(R-1), MH, MJ, SMK, ML, MM, MN, MP, MT, SMU

53-1201-ML-322, SHT. 1

A, B, B(R-1). C, D, E, F, G, H, J, K, L, M, ST, SU, SV, W, X, Y, SZ, MA, SMB

\$3-1204-ML-003.SHT. 2

NQ, NR, SNS,

8 Tests Conducted: Per CWO 93091659000(Spacer Plates) - Hydrostatic [X] Pressure: 141 paig Temp: 79.8°F

Por CWO 93032459000(LPSI/Cross-Tie on Containment Spray System) Hydrostatic [X], pressure 142.5psig,

Temp: 71.4°F

VT-3's per procedure G-005, Rev. 5 for Hangers

FORM NIS-2 (back)

	(Applicable)	Manufacturer's Data Reports to be attache	d)
-	CERT	TIFICATE OF COMPLIANCE	
We certify that the stat Section XI.	rments made in the report	are correct and thisreplacement confo	orms to the rules of the ASME Code
Type Code Symbol Su	mp: N/A		
Certificate of Authorize	tion No: N/A	Expiration Date: N/A	
Signed Bor W	Viner's Designee, Title	sind to shall form it may	1. Date: March 7.19
		TIFICATE OF INSPECTION ed by the National Board of Boiler and Pr	
by signing this certific exeminations and corrective liable in any manner inspection.	and state that to the best scribed in this Owner's Repo cate, neither the Inspector n ctive measures described in for any personal injury or	conents described in this Owner's Report of a of my knowledge and belief, the Owner I ort in accordance with the requirements of nor his employer makes any warranty, expr this Owner's Report. Furthermore, neith- property damage or a loss of any kind ens	has performed examinations and take the ASME Code, Section XI. essed or implied, concerning the er the Inspector nor his employer sh
Inspector's Sig	nature myselen	Commissions 1862 (National Board, S	California Itale, Province, and Endorsements)
Date March	7, 1994		
Date March	7, 1994		
Date March	7, 19 9 4		
		Lindackov	Dec: 3.7-94
	7, 1094 Arun H. Ma	hindackov	D=: 3-7-94
		hindackov	Dec: 3-7-94

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemend, CA 31770

Sheet 2 of 7
2 Plant: San Onofre Nuclear Generating Station Unit:

P.O. Box 128, San Clemente, CA 92674-0128 Travelor \$03-93-003

Work Performed by: Bechtel Construction Company 93032459000 93080872000

P.O. Box 450 93080872001 San Cleroscote, CA 92674-0128 MMP: 3-6863.00

Type Code Symbol Stamp:

NIA

P&ID: 40114A
4. Identification of System: Safety Injection (1204) N-5: \$3-1204-21

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

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Piping), ASME Section III, Class 2, 1974 Edition, S'75 Addenda (Valves), ASME Section III, Subsection "NF", 1974 Edition, S'74 Addenda (Pipe Support), Code Cases: Notes

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S"79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
14" 90° Elbow, Sch 20	Taylor Forge	HT # LIVM-1	N/A	ftem 18 :30 # \$3-1231-M1.321 RSO # 2263-93	N/A	Replacement	No
16"x14"Reducer, Sch 20	Taylor Forge	HL * MC5-1	N/A	Item 19 ISO # 53-1201-ML321 RSO # 2674-93	N/A	Replacement	No
10"x8"Ecc. Reducer, Sch	Taylor Forge	HT # LJYN-1	N/A	Item 20 ISO # \$3-1201-ML321 RSO # 2263-93	N/A	Replacement	No
8° Flange, 150#, Sch 20	Hub	HT # D4370	N/A	Item 21, 22 ISO # \$3-1201-MI_321 CR 2000-93 RSO # 2437-93	N/A	Replacement	No
16" Flange, 150#, Sch 20	WFI	HT # 896VNE	N/A	Item 23 ISO # S3-1201-ML321 RSO # 2313-93	N/A	Replacement	No
14" Flange, 150# Sch. 20	WFI	HT # 896VNE	N/A	Item 24 ISO # 53-1201-ML321 RSO # 2351-93	N/A	Replacement	No
16"x8"Weldolet, Sch. 20	WFI	HT # 451VNE	N/A	Item 2" ISO # \$3-1201-ML321 RSO # 2248-93	N/A	Replacement	No
16"x3/4" Weldolet, Sch 40s	WFI	HT # 691VNAZ	N/A	Item 26 ISO # \$3-1201-ML321 RSO # 2248-93	N/A	Replacement	No
16"x1"Weldolet, Sch. 40s	WFI	HT # 691VNAZ	N/A	Item 27 ISO # \$3-1201-ML321 RSO # 2248-93	N/A	Replacement	No

Work Performed by

Identification of System:

5.

(a)

Owner: Southern California Edison Company

2244 Walmst Grove Avenue, Rosemend, CA 91770

San Onofre Nuclear Generating Station Plant:

P.O. Box 128, San Clemente, CA 92674-0128

Bechtel Construction Company

P.O. Box 450

San Clemente, CA 92674-0128

MMP:

Unit:

CWO:

Sheet 3 of 7

Traveler:

P&ID: 40114A

Safety Injection (1204) N-5: \$3-1204-21

> Type Code Symbol Stamp: Authorization No:

\$03-93-003

93032459000

93080872000

93080872001

3-6863.00

N/A

Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 5*74 Addends (Piping), ASME Section III, Class 2, 1974 Edition, S'75 Addenda (Valves), ASME Section III, Subsection "NF", 1974 Edition, S'74 Addenda (Pipe Support), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 8"79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
8" Flange 150#, Sch. 20	Hub	HT # D4370	N/A	Item 28.29 ISO # \$3-1201-ML321 CR 2000-93 RSO # 2437-93	N/A	Replacement	No
3/4" Stud Bolts	Cardinal	HT #H6	N/A	Item 30 ISO # \$3-1201-ML321 RSO # 0824-93	N/A	Replacement	No
3/4" Hex Nuts	Cardinal	HT # H2	N/A	Item 31 ISO # \$3-1201-ML321 RSO # 0751-93	N/A	Replacement	No
1" Pipe, Sch. 40s	Sandvik	HT # 461879	N/A	Item 32,33,34 ISO # S3-1201-ML321 RSO # 2010-93	N/A	Replacement	No
3/4" Pipe, Sch. 40s	Sandvik	HT # SW773	N/A	Item 35, 36 ISO # \$3-1201-ML321 RSO # 2010-93	N/A	Replacement	No
1* 90° Elbow, Sch. 40s	Taylor Forge	HT # LIMQ-1	N/A	Item 37 ISO # 53-1201-ML321 RSO # 2263-93	N/A	Replacement	No
1°x1"x3/4"Reducing Tee Sch. 40s	Hub, Inc.	HT # E5	N/A	Item 38 ISO # \$3-1201-ML321 RSO # 2693-93	N/A	Replacement	No
3/4* 90° Elbow, Sch. 40s	Flowline	HT # 89697	N/A	Item 39 ISO # 53-1201-ML321 RSO # 2230-93	N/A	Replacement	No
3/4" Flange 150#, Sch. 40s	Mub	HT # D4230	N/A	Item 40 ISO # 53-1201-ML321 CR 2000-93 RSO # 2437-93	N/A	Replacement	No
1/2* Stud Bolts 3* long	Cardinal	HT # E5	N/A	Item 41 ISO # S3-1201-ML321 RSO # 0849-23	N/A	Replacement	No

Work Performed by

Identification of System:

Owner: Southern California Edison Company

2244 Walnut Grove Avenue, Rosemesd, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Safety Injection (1204)

Type Code Symbol Stamp:

NIA N/A Authorization No:

503-93-003

93032459000

93080872000

93080872001

3-6863.00

\$3-1204-21

40114A

Expiration Date:

Sheet 4 of 7

Unit

Traveler:

CWO:

MMP:

P&ID:

N-5:

N/A

(a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addende (Piping), ASME Section III, Class 2, 1974 Edition, S'75 Addenda (Valves), ASME Section III, Subsection "NF", 1974 Edition, S'74 Addenda (Pipe Support), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S"79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1/2" Hex Nuts	Nova Machine	HT # 8079541	N/A	Item 42 ISO # S3-1201-ML321 RSO # 1715-99	N/A	Replacement	No
8" Spacer Plate	Consolidated Power	HT # 855983	N/A	Item 66 ISO # S3-1201-ML321 CR 1010-93 RSO # 1196-93	N/A	Replacement	No
3/4* Pipe Nipple 5* LG BOExPOE	Sandvik	HT # SW773	N/A	item 67 ISO # \$3-1201-ML321 RSO # 2010-93	N/A	Replacement	No
14" Pipe, Sch. 20	Trent Tube	HT # 130461W	N/A	Item 1,2 ISO # 53-1201-ML322 RSO # 2321-93	N/A	Replacement	No
8° Pipe, Sch. 20	Trent Tube	HT # 130465W	N/A	item 3, 4 ISO # 53-1201-ML322 RSO # 2321-93	N/A	Replacement	No
14* 90° Elbow, Sch 20	Taylor Forge	HT # LIYM-1	N/A	Item 7 ISO # \$3-1201-ML322 RSO # 2263-93	N/A	Replacement	No
8* 90° Elbow, Sch. 20	Taylor Forge	HT # LIYA-2	N/A	Item 8,9 ISO # 53-1201-ML322 RSO # 2313-93	N/A	Replacement	No
14° Flange 150#, Sch. 20	WFI	HT # 896VNE	N/A	Item 11 ISO # \$3-1201-ML322 R5O # 2351-93	N/A	Replacement	No
8" Flange 150#, Sch. 20	Hub	HT # D4370	N/A	Item 12 ISO # \$3-1201-ML-22 CR 2000-93 RSO # 2437-93	N/A	Replacement	No

Work Performed by:

Owner: Southern California Edison Company

Z244 Wainstt Grove Avenue, Rosemead, CA 91770

San Onofre Nuclear Generating Station

P.O. Box 128, San Clemente, CA 92674-0128

Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Identification of System: Safety Injection (1204) Sheet 5 of 7

Unit:

Traveler: \$03-93-003

CWO: 93032459000

93080872000

93080872001 3-6863.00

MMP:

P&ID: 40114A N-5: 83-1204-21

Type Code Symbol Stamp:

N/A

Authorization No: Expiration Date:

N/A N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addends (Piping), ASME Section III, (4) Class 2, 1974 Edition, S'75 Addenda (Valves), ASME Section III, Subsection "NF", 1974 Edition, S'74 Addenda (Pipe Support), Code Cases: Nome

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 3"79 Addenda

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
8" Flange 150#, Sch. 20	Hub	HT # D4370	N/A	Item 13, 14, 15 ISO # S3-1201-ML322 CR 2000-93 RSO # 2437-93	N/A	Replacement	No
16"x14"150# Reducing Flange	WFI	HT # 896VNE	N/A	Item 16 ISO # S3-1201-ML322 RSO # 2313-93	N/A	Replacement	No
10*x8*Con. Reducer Sch 20	Taylor Forge	HT # LIYN-1	N/A	Item 17 ISO # S3-1201-ML322 RSO # 2263-93	N/A	Replacement	No
14*x8*Weldolet, Sch 20	WFI	HT # 451VNF	N/A	Item 20 ISO # S3-1201-ML322 RSO # 2248-93	N/A	Replacement	No
14"x1" Weldolet, Sch 40	Consolidated Power	HT # 832VNA	N/A	Item 21 ISO # 83-1201-ML322 RSO # 2436-93	N/A	Replacement	No
14"x3/4" Weldolet, Sch 40	Consolidated Power	HT # 832VNA	N/A	Item 22 ISO # S3-1201-ML322 RSO # 2436-93	N/A	Replacement	No
3/4" Pipe Nipple 3" LO BOEXPOE	Sandvik	HT # SW773	N/A	Item 23 ISO # S3-1201-ML322 RSO # 2010-93	N/A	Replacement	No
1° Pipe Nipple 3° LG BBE, Sch. 40s	Sandvik	HT # 461879	N/A	Item 24 ISO # S3-1201-ML322 RSO # 2010-93	N/A	Replacement	No
1° Pipe Nipple 3° LG BOEXPOE, Sch. 40e	Sendvik	HT # 461879	N/A	Item 25 ISO # 53-1201-ML322 RSO # 2010-93	N/A	Replacement	No
1" 90" Elbow, Sch 40s	Taylor Forge	HT # LIMQ-1	N/A	Item 26 ISO # 53-1201-ML322 RSO # 2263-93	N/A	Replacement	No

Owner: Southern California Edison Company

2244 Wainer Grove Avenue, Rosemend, CA 91770

Sen Onofre Nuclear Generating Station Plant:

Identification of System:

P.O. Box 128, San Clemente, CA 92674-0128

Work Performed by:

Bechtel Construction Company P.O. Box 450

San Clemente, CA 92674-0128

Safety Injection (1204)

Sheet 6 of 7

Unit:

Traveler: \$03-93-003 CWO:

93032459000

93080872000

93080872001 3-6863.00

MMP: P&ID: 40114A

N-5: 83-1204-21

Type Code Symbol Stamp:

Authorization No:

N/A N/A

Expiration Date:

N/A

- Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S*74 Addenda (Piping), ASME Section III, Class 2, 1974 Edition, S'75 Addenda (Valves), ASME Section III, Subsection "NF", 1974 Edition, S'74 Addenda (Pipe Support), Code Cases: None
 - Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda (b)
- Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Stud Bolts	Cardinal	HT # HG	N/A	Item 34 ISO # S3-1201-ML322 R5O # 0824-93	N/A	Replacement	No
3/4" Nuts	Cardinal	HT # HZ	N/A	Item 35 ISO # S3-1201-ML322 RSO # 0754-93	N/A	Replacement	No
8 Spacer Plate	Consolidated Power	HT # 855983	N/A	Item 37 ISO # 83-1201-ML322 CR 1010-93 RSO # 1196-93	N/A	Replacement	No
1" Pipe Sch. 40s	Sandvik	HT # 461879	N/A	Item 60 ISO # S3-1204-ML003 RSO # 2010-93	N/A	Replacement	No
3/4 Dia. Pipe Strap	Grinnell	HT # B-089	N/A	Item 67 ISO # \$3-\$1-004-H-036 RSO # 2568-93	N/A	Replacement	No
1° Dia. Pipe Strap	Grinnell	HT # B-089	N/A	Item 67 ISO # 53-SI-004-H-037 RSO # 2624-93	N/A	Replacement	No
1" Gate Valve S31204MU192	Vogt	SN # 17-215457	N/A	Item 57 ISO # 53-1201-ML321 RSO # 1592-87	1987	Replacement	Yes
3/4* Gate Valve S31204MR206	Vogt	SN # 3-216845	N/A	Item 68 ISO # 53-1201-ML321 RSO # 2048-93	1993	Replacement	Yes
1" x 3/4" Relief Valve 3PSV-8157	Crosby Valve	SN # N60533-00- 0021	N/A	Item 58 ISO # 53-1201-ML321 RSO # 1475-93	1993	Replacement	Yes
1" Gate Valve 531204MR389	Vogt	SN # 6-215457	N/A	Item 28 ISO # \$3-1201-ML322 RSO # 1592-87	1987	Replacement	Yes

Work Performed by:

Identification of System:

Owner: Southern California Edison Company

ZZ44 Waltest Grove Avenue, Rosemend, CA 91770

San Onofre Nuclear Generating Station Plant

P.O. Box 128, San Clemente, CA 92674-0128

Bechtel Construction Company P.O. Box 450

San Clomente, CA 92674-0128

Safety Injection (1204)

Sheet 7 of 7

Unit:

Traveler: \$03-93-003

CWO: 93032459000

93080872000

93080872001

3-6863.00

MMP: P&ID: 40114A

N-5: \$3-1204-21

N/A

Type Code Symbol Stamp: Authorization No:

N/A

Expiration Date:

N/A

- Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Piping), ASME Section III, (a) Class 2, 1974 Edition, S"75 Addends (Valves), ASME Section III, Subsection "NF", 1974 Edition, S"74 Addends (Pipe Support), Code Cases: None
 - Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5'79 Addenda
- Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Gate Valve 531204MR083	Vogt	SN # 17-216845	N/A	Item 29 ISO # \$3-1201-ML322 RSO # 2048-93	1993	Replacement	Yes
1" Gate Vavle 531204MU193	Vogt	SN # 2-215457	N/A	Item 61 ISO # S3-1204-ML003 RSO # 1592-87	1987	Replacement	Yes

As Required by the Provisions of the ASSE Code Section XI

Sheet 1 of 2 Southern California Edison Company Owner: Unit: 3 2244 Walmer Grove Avenue, Rosemesd, CA 91770 Traveler: 903-93-004 CWO: 93032459000 San Onofre Nuclear Generating Station 93080872000 P.O. Box 128, San Clemente, CA 92674-0128 93080872001 MMP. 3-6863.00 Work Performed by: Bechtel Construction Company P&ID 40112B P.O. Box 450 N-5 \$3-1204-12 San Cleenente, CA 92674-0128 N/A Type Code Symbol Stamp: Identification of System. Containment Spray (1204) Authorization No: N/A Expiration Date: NIA

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addends (Piping), ASME Section III Class 2, 1971 Edition, S'73 Addends (Valves), ASME Section III, Class 2, 1974 Edition, S'75 Addends (Vogt Valves), Code Cases: None

Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, \$"79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
12"x1"Weldolet, Sch. 40s	Consolidated Power	HT # 832VNA	N/A	Item 19 ISO # 531204ML038 RSO # 2436-93	N/A	Repiscement	No
1* Pipe Nipple, B.B.E. Sch. 40s	Sandvik	HT # 461879	N/A	Item 20 ISO # \$31204ML038 RSO # 2010-93	N/A	Replacement	No
1° 90° Elhow, Sch. 40s	Taylor Forge	HT # LIMQ-1	N/A	Item 21 ISO # \$31204ML038 RSO # 2263-93	N/A	Replacement	No
l' Pipe Nipple, Sch 40s	Sendvik	HT # 461879	N/A	Item 22 ISO # 531204ML038 RSO # 2010-93	N/A	Replacement	No
3/4" Half Coupling 3000#	Consolidated Power	HT # 832VNA	N/A	Item 107 ISO # \$31204ML038 RSO # 2436-93	N/A	Replacement	No
3/4" Thermowell (3T1-0310)	Conex	HT # AH6056	N/A	Item 108 ISO # \$31204ML038 RSO # 1077-93	N/A	Replacement	No

Description of Work: Modify Line S3-1204-ML-038 to add Heat Exchanger Block Valves and Thermocouple.

Performed Welds per WR5/WR5A's and WFMCR's:

Iso #

Weld I.D.

\$31204ML038,Sht. 7

SGA, SGB, TG, TH, TJ, GS, GT, GU, GV, GW, GX, GY, GZ,

TA, TB, TC, TD, TE, TF

\$31204ML038,Sht. 1

SMA. SMB

8. Tests Conducted: 93072119000 System Functional [X] Pressure: 269 Psig Temp: N/A*F VT-2 performed against 93032459000 to perform Hydrostatic Test for line \$31204ML038, Pressure 775 Psig, Temp: 71.4*F

FORM NIS-2 (back)

	(Applicable Manufacturer's Date	Reports to be attached)	
	CERTIFICATE OF	COMPLIANCE	
We certify that the stateme Section XI.	nts made in the report are correct and this	replacement conforms to	the rules of the ASME Code,
Type Code Symbol Stamp:	N/A		
Certificate of Authorization	No: N/A Expiration	Date: N/A	
Signed: But 4.	Campe. Breitel	T' Colone Man	Date: March 7, 199
or Province of <u>California</u> Norwood, Massachusetts to 3/7/74	CERTIFICATE OF a valid commission issued by the National I and employed by Arkwright Mutual Insur- ave inspected the components described in and state that to the best of my knowledge a	coard of Boiler and Pressure Vance Company (Fectory Mutua this Owner's Report during the and belief, the Owner has perfe	J Engineering Association) of the period 11/7/93 corned examinations and taken
or Province of California Norwood, Massachusetts to 3/7/9/4 corrective measures describ By signing this certificate, examinations and corrective be liable in any manner for inspection.	a valid commission issued by the National E and employed by Arkwright Mutual Insurative inspected the components described in and state that to the best of my knowledge and in this Owner's Report in accordance with the insurative measures described in this Owner's Report any personal injury or property damage or	toard of Boiler and Pressure is not Company (Fectory Mutual this Owner's Report during the delief, the Owner has perfet the requirements of the AS tes any warranty, expressed or Furthermore, neither the Ir a loss of any kind arising from	I Engineering Association) of the period 1/793 ormed examinations and taken ME Code, Section XI. Implied, concerning the aspector nor his employer shall an or connected with this
or Province of California Norwood, Massachusetts to 23/7/9/4 corrective measures describ By signing this certificate, examinations and corrective be liable in any manner for inspection.	a valid commission issued by the National E and employed by Arkwright Mutual Insurative inspected the components described in and state that to the best of my knowledge and in this Owner's Report in accordance with neither the Inspector nor his employer mais measures described in this Owner's Report any personal injury or property damage or	coard of Boiler and Pressure is more Company (Fectory Mutua this Owner's Report during the nd belief, the Owner has perfet the requirements of the AS tes any warranty, expressed or Furthermore, neither the It is loss of any kind arising from a 1862	I Engineering Association) of e period 11/793 ormed examinations and taken ME Code, Section XI.
or Province of California Norwood, Massechusetts to 3/1/Corrective measures describ By signing this certificate, examinations and corrective be liable in any manner for inspection.	a valid commission issued by the National E and employed by Arkwright Mutual Insurstance inspected the components described in and state that to the best of my knowledge and in this Owner's Report in accordance with neither the Inspector nor his employer mais measures described in this Owner's Report any personal injury or property damage or any personal injury or property damage or commission re	coard of Boiler and Pressure is more Company (Fectory Mutua this Owner's Report during the nd belief, the Owner has perfet the requirements of the AS tes any warranty, expressed or Furthermore, neither the It is loss of any kind arising from a 1862	I Engineering Association) of e period 11/7/93 ormed examinations and taken ME Code, Section XI. Implied, concerning the aspector nor his employer shall a or connected with this California
or Province of California Norwood, Massachusetts to Torrective measures describ By signing this certificate, examinations and corrective be liable in any manner for inspection. Inspector's Signature.	a valid commission issued by the National E and employed by Arkwright Mutual Insurstance inspected the components described in and state that to the best of my knowledge and in this Owner's Report in accordance with neither the Inspector nor his employer mais measures described in this Owner's Report any personal injury or property damage or any personal injury or property damage or commission re	coard of Boiler and Pressure is more Company (Fectory Mutua this Owner's Report during the nd belief, the Owner has perfet the requirements of the AS tes any warranty, expressed or Furthermore, neither the It is loss of any kind arising from a 1862	I Engineering Association) of e period 11,793 ormed examinations and taken ME Code, Section XI. Implied, concerning the aspector nor his employer shall an or connected with this California

			Sheet 2 of 2
Owner:	Southern California	Edison Company	Unit: 3

 ZZ44 Walmit Grove Avenue, Rosemead, CA 91770
 Traveler: \$03-93-004

 CWO: 93032459000
 93032459000

 Plant
 San Oxofre
 Nuclear Generating
 Station
 93080872000

 P.O. Box 128, San Clemente, CA 92674-0128
 93080872001

 MMP:
 3-6863.00

 Work Performed by:
 Beath. Construction Company
 P&ID:
 40112B

Becht. Construction Company P&ID: 40112B P.O. xx 450 N-5: \$3-1204-12 San Clemente, CA 92674-0128

Type Code Symbol Stamp: N/A

Identification of System: Containment Spray (1204) Authorization No: N/A

Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Piping), ASME Section III
 Class 2, 1971 Edition, S'73 Addenda (Valves), ASME Section III, Class 2, 1974 Edition, S'75 Addenda (Vogt Valves), Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 879 Addenda

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
12" Pipe, Sch. 20	Trent Tube	HT # C38244E	N/A	Item 8,9 150 # \$31204ML038 RSO # 2321-93	N/A	Replacement	No
14" Pipe, Sch. 20	Trent Tube	HT # 713692J	N/A	Item 10, 11 ISO # \$31204ML038 RSO # 0913-93	N/A	Replacement	No
14° 90° Elbow	Taylor Forge	HT # LIYM-1	N/A	Item 12 ISO # \$31204ML038 RSO # 2263-93	N/A	Replacement	No
12" Tee, Sch. 20	Taylor Forge	HT # LIUK-1	N/A	Item 13 ISO # \$31204ML038 RSO # 2263-93	N/A	Replacement	No
14*x12*Reducer Conc. Sch. 20	Taylor Forge	HT # LIYM -I	N/A	Item 14, 15, 16 ISO # S31204ML038 RSO # 2263-93	N/A	Replacement	No
1" Gate Valve 521204MR444	Vogt	SN # 9-215457	N/A	Item 23 ISO # S31204ML038 RSO # 1592-87	1987	Replacement	Yes
12" Gate Valve S31204MU366	Control Components, Inc.	SN # 610291-2-1	N/A	Item 17 ISO # S31204ML038 RSO # 1111-93	1993	Replacement	Yes
12" Gate Valve w/1" Bypass 831204MU367	Control Components, Inc.	SN # 610291-2-2	N/A	Item 18 ISO # S31204ML038 RSO # 1229-93	1993	Replacement	Yes

As Recaured by the Provisions of the ASME Code Section XI

Sheet 1 of 4 Owner: Southern California Edison Company Unit: 3 2244 Walszal Grove Avessie, Rosespead, CA 91770 Traveler: 803-93-006 CWO: 93032459000 Plant: Sen Onofre Nuclear Generating Station 93080872000 P.O. Box 128, San Clemente, CA 92674-0128 93080872001 93091266000 Work 'Performed by: Bachtel Construction Company MMP: 3-6863.00SN

P.O. Box 450 P&ID: 40112B, 40114B
San Clemente, CA 92674-0128 N-5: \$3-1206-1

4 Identification of System: Coestainment Spray System (1206) Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addende (Piping & Fittings); ASME Section III, Class 2, 1971 Edition, S'73 Addenda (Valves); ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Valves); ASME Section III, Subsection "NC", 1974 Edition, S'74 Addenda, Code Casses: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Massufacturer	Manufacturer Senal No.	National Board No.	Other Identification	1	Repaired, Replaced, or Replacement	ASME Code Stamped Yea/No
8° Pipe Sch. 20	Trent Tube	HT # 712717	N/A	Item 1-5, 7-11 ISO #S3-1206-ML-063 RSO # 2321-93	N/A	Replacement	No
8° 90° Elbow Sch. 20	Taylor Forge	HT # LIYA-1	N/A	Item 12 - 14 ISO # 53-1206-ML-063 RSO # 2263-93	N/A	Replacement	No
8° 90° Elbow Sch. 20	Taylor Forge	HT # LIYA-2	N/A	Item 15 ISO # \$3-1206-ML-063 RSO # 2313-93		Replacement	No
3° 45° Elbow Sch. 20	Taylor Forge	HT # LIYA-I	N/A	Item 16 ISO # \$3-1206-ML-063 RSO # 2263-93	N/A	Replacement	No

Description of Work:

Verify code materials, fabricate & install piping & hangers per Dwgs. S3-1206-ML-063 Sht. 1, S3-1206-ML-003 Sht. 2, S3-1206-ML-004 Sht. 1, S3-C3-053-H-004, & S3-CS-063-H-001.

Performed the following welds in accordance with WR-5/5A's and WFMCR's.

ISO/DWG # WELD I.D.

S3-1206-ML-063 Sht. 1 A. B. C. D. F. O. H. J. K. L. M. N. P. Q. Q(R-1), R. S. T. U. V. W. X. Y. F. Z.

MA, MB, MC, SMD, SME, MF, MG, MH, SMJ, ML

53-1206-ML-003 Sht. 2 ND, NE, KA, SBG, SBH

\$3-1206-ML-004 Sht. 1 MN, MP, MQ, SSJ, SSL

\$3-C\$-063-H-001 \$A, \$B, \$C, \$D, \$E, \$F, \$G, \$H

Tests Conducted: VT-2 performed on Test CWO 93032459000to cover requirements of multiple Travelers - Hydrostatic [X]
 Pressure: 775 psig, Actual Temp: 71.4°F

VT-2 performed on Test CWO 93091266000- Hydrostatic [X] Pressure: 780 psig, Temp: 78.6°F.

V1-3 - per procedure G005 - Rev. 5

FORM NIS-2 (back)

	(Applicable Manufacturer's Data Reports to be attached)
	CERTIFICATE OF COMPLIANCE
We certify that the Section XI	statements made in the report are correct and this replacement conforms to the rules of the ASME Code
Type Code Symbo	I Stamp: N/A
Certificate of Auth	orization No: N/A Expiration Date: N/A
Signed: Best Owner	Y. Campo Bechtel Field and mgr. Date Marin 7 19
	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 California of C	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State liferone, and employed by Arteright Muhial Insurance Company (Factory Muhial Engineering Association) of the state that to the best of my knowledge and belief, the Owner has performed examinations and take a described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. Intificate, 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 shanner for any parsonal injury or property damage or a loss of any kind arising from or connected with this
by signing this constraints and the liable in any management.	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State liformia, and employed by Artwright Mutual Insurance Company (Factory Mutual Engineering Association) of the state that is the best of my knowledge and belief, the Owner's Report during the period of the state that to the best of my knowledge and belief, the Owner has performed examinations and takes described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. Intificate, 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 she
By signing this ce examinations and the liable in any management.	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State liferone, and employed by Arteright Muhial Insurance Company (Factory Muhial Engineering Association) of the state that to the best of my knowledge and belief, the Owner has performed examinations and take a described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. Intificate, 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 shanner for any parsonal injury or property damage or a loss of any kind arising from or connected with this
By signing this consection. By signing this consection and the liable in any management of the consection.	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State liformia, and employed by Artwright Mutual Insurance Company (Factory Mutual Engineering Association) of the state that to the best of my knowledge and belief, the Owner's Report during the period of and state that to the best of my knowledge and belief, the Owner has performed examinations and takes described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. Intrincate, 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 shanner for any parsonal injury or property damage or a loss of any kind arising from or connected with this Commissions.
By signing this ce examinations and the liable in any management.	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State liformia, and employed by Artwright Mutual Insurance Company (Factory Mutual Engineering Association) of the state that to the best of my knowledge and belief, the Owner's Report during the period of and state that to the best of my knowledge and belief, the Owner has performed examinations and takes described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. Intrincate, 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 shanner for any parsonal injury or property damage or a loss of any kind arising from or connected with this Commissions.

			Sheet 2 of	4	
1.	Owner: Southern Cal	forms Edison Company	Unit:	3	
	2244 Walmst	Grove Aversie, Rosemend, CA 91770	Traveler	SO3-93-006	
			CWO:	93072125000	93072126000
2	Plant: See Onofre Nuclear Generating Station			93072127000	93072128000
	P.O. Box 128	San Clemente, CA 92674-0128		93080384000	93080778000
			MMP:	3-6863.008N	
3.	Work Performed by	Bechtel Construction Company	P&ID:	40112B, 40114B	
		P.O. Box 450	N-5:	\$3-1206-1	
		San Clomente, CA 92674-0128			
			Type Code	Symbol Stamp	N/A
4.	Identification of System	Containment Spray System (1206)	Authorizat	ion No:	N/A
			Expiration	Date	N/A

- 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 3"74 Addenda (Piping & Fittings); ASME Section III, Class 2, 1971 Edition, 3"73 Addenda (Valves); ASME Section III, Class 2, 1974 Edition, 3"74 Addenda (Valves); ASME Section III, Class 2, 1974 Edition, 3"74 Addenda, Code Casses: None
 - (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addende
- 6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
S' Tee Sch. 20	Taylor Forge	HT # LIYA-2	N/A	item 17, 18 ISO # 53-1206-ML-063 RSO # 2263-93	N/A	Rapiecement	No
8" Flange 300# Sch. 20	WFI	HT # 896 VNE	N/A	Item 19 ISO # S3-1206-ML-063 RSO # 2313-93	N/A	Replacement	No
1º Pipe Nipple Sch. 40s	Sandvik	HT # 461879	N/A	Item 25 ISO # S3-1206-ML-063 RSO # 2010-93	N/A	Replacement	No
1° 90° Elbow Sch. 40s	Taylor Forge	HT # LDMQ-1	N/A	Item 26 ISO # 53-1206-ML-063 RSO # 2263-9?	N/A	Replacement	No
8"x1" Weldolet Sch. 40s	WFI	HT # 691VNA2	N/A	Item 27 ISO # \$3-1206-ML-063 RSO # 2248-93	N/A	Replacement	No
1° Pipe Nipple BOExPOE	Sandvik	HT # 461879	N/A	Item 29 ISO # S3-1206-ML-063 RSO # 2010-93	N/A	Replacement	No
8"x3/4" Weldolet 3ch 40s	WFI	HT # 691VNA2	N/A	Item 32 ISO # S3-1206-ML-063 RSO # 2248-93	N/A	Replacement	No
3/4* 90° Elbow Sch. 40s	Taylor Forge	HT # LGFD-1	N/A	Item 33 ISO # \$3-1206-ML-063 RSO # 2263-93	N/A	Replacement	No
3/4" Nipple BBE Sch. 40s	Sandvik	HT # SW 773	N/A	Item 34 ISO # \$3-1206-ML-063 RSO # 2010-93	N/A	Replacement	No
3/4" Pipe Nipple POExBOE Sch. 40s	Sandvik	HT # SW 773	N/A	Item 35 ISO # 83-1206-ML-063 RSO # 2010-93	N/A	Replacement	No
7/8" Stud Bolt Continuous Thread	Cardinal	HT # E5	N/A	Item 40 ISO # \$3-1206-ML-063 RSO # 0751-93	N/A	Replacement	No

			Sheet 3 of	4	
	Owner Southern Califor	mia Ediaon Company	Unit:	3	
	2244 Walmet Gro	ove Avenue, Rosemend, CA 91770	Traveler:	503-93-006	
			CWO:	93072125000	93072126000
2	Plant: San Opofre Nuc	lear Generating Station		93072127000	93072128000
	P.O. Box 128, Sa	us Clemonte, CA 92674-0128		93080384000	93080778000
			MMP:	3-6863.008N	
3.	Work Performed by	Ber stel Construction Company	P&ID:	40112B, 40114B	
		P.O. Box 450	N-5:	\$3-1206-1	
		San Clemone, CA 92674-0128			
			Type Code	Symbol Stamp	N/A
4.	Identification of System:	Containment Spray System (1206)	Authorizat	ion No	N/A
			Expiration	Date	N/A

- 5. Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Piping & Fittings); ASME Section III, Class 2, 1971 Edition, S'73 Addenda (Valves); ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Valves); ASME Section III, Subsection "NC", 1974 Edition, S'74 Addenda, Code Casses: None
 - (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 5"79 Addende
- 6. Identification of Components Regained or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
7/8" Hex Nut	Cardinal	HT # H2	N/A	Item 41 ISO # \$3-1206-ML-063 RSO # 0751-93	N/A	Replacement	No
8° Flange 300#	Consolidated Power	HT # 896 VNE	N/A	Item 42 ISO # \$3-1206-ML-063 RSO # 2373-93	N/A	Replacement	No
8"x3/4" Weidolet Sch. 40s	Consolidated Power	HT # 832 VNA	N/A	Item 16 ISO # \$3-1206-ML-003 RSO # 2436-93	N/A	Replacement	No
3/4° Pipe Nipple BOExPOE Sch. 40s	Sandvik	HT # SW 773	N/A	Item 17 ISO # S3-1206-ML-003 RSO # 2010-93	N/A	Replacement	No
8° Tee BW SS Sch. 20	Consolidated Power	HT # LIYA-2	N/A	Item 21 ISO # \$3-1206-ML-003 RSO # 2436-93	N/A	Replacement	No
8° Tee BW SS Sch. 20	Consolidated Power	HT # LIYA-2	N/A	Item 23 ISO # \$3-1206-ML-004 RSO # 2436-93	N/A	Replacement	No
8"x3/4" Weldolet Sch. 40e	Consolidated Power	HT # 832VNA	N/A	Item 24 ISO # 53-1206-ML-004 RSO # 2436-93	N/A	Replacement	No
3/4" Pipe Nipple BOExPOE Sch. 40e	Sandvik	HT # SW 773	N/A	Item 25 ISO # 53-1206-ML-004 RSO # 2010-93	N/A	Replacement	No
Lug 1° SS	Consolidated Power	HT # 858350	N/A	hem 38 (2 ea) ISO # 53-CS-053-H-004 RSO # 2356-93	N/A	Replacement	No
Lug 1* SS	Consolidated Power	HT # 858350	N/A	Item 38 ISO # \$3-C\$-063-H-001 RSO # 2356-93	N/A	Replacement	No
Lug 1° SS	Allegheny Ludium Steel	HT # 856791	N/A	Item 38 (3 es) ISO # S3-CS-063-H-001 RSO # 0453-93	N/A	Replacement	No
8° Globe Valve	ccı	SN # 610291-10-1	N/A	Item 21 (\$31206MU104) ISO # \$3-1206-ML-063 RSO # 1111-93	1993	Replacement	Yes

			Sheet 4 of	4	
1.	Owner: Southern Califor	nie Edison Company	Unit	3	
	2244 Walens Gro	ve Avenue, Rosemend, CA 91770	Traveler:	SC3-93-006	
			CWO:	93072125000	93072126000
2	Plant: Sen Ocofre Nucl	ear Generating Station		93072127000	93072128000
	P.O. Box 128, Se	formie Edison Company Grove Avenue, Rosemead, CA 91770 fuciosar Generating Station, ,San Clemente, CA 92674-0128 Bechtel Construction Company P.O. Box 450 San Clemente, CA 92674-0128 Containment Sprsy System (1206)		93090384000	93080778000
			MMP:	3-6863.00SN	
3.	Work Performed by:	Bechtel Construction Company	P&ID:	40112B, 40114B	
		P.O. Box 450	N-5:	\$3-1206-1	
		Sen Clemente, CA 92674-0128			
			Type Code	Symbol Stamp:	N/A
4	Identification of System:	Containment Spray System (1206)	Authorizati	ion No:	N/A
			Expiration	Date:	N/A
100			and the contract of the contract of the con-	and the second of the second	

- Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Piping & Fittings); ASME Section III, Class 2, 1971 Edition, S'73 Addenda (Valves); ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Valves); ASME Section III, Subsection "NC", 1974 Edition, S'74 Addenda, Code Casses: None
 - (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, 8"79 Addenda
- 6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stemped Yes/No
8' Gate Vaive	cei	SN # 610291-8-1	N/A	Item 22 (\$31206MU105) ISO # \$3-1206-ML-063 RSO # 1111-93	1993	Replacement	Yes
8" Gate Valve	ccı	3N # 610291-8-2	N/A	Item 23 (S31206MU106) ISO # S3-1206-ML-063 RSO # 1526-93	1993	Replacement	Yes
1º Gate Valve	Vogt	SN # 1-215457	N/A	Item 24 (S31206MR076) ISO # S3-1206-ML-063 RSO # 1592-87	1987	Replacement	Yes
3/4" Gate Valve	Vogt	SN # 11-216845	N/A	Item 36 (S31206MR079) ISO # S3-1206-ML-063 RSO # 2048-93	1993	Replacement	Yes
3/4" Gate Valve	Vogt	SN # 1-216845	N/A	Item 18 (531206MR074) ISO # 53-1206-ML-003 RSO # 2048-93	1993	Replacement	Yes
3/4" Gate Valve	Vogt	SN # 2-216845	N/A	Item 26 (S31206MR075) ISO # 53-1206-ML-004 RSO # 2048-93	1993	Replacement	Yes

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1 Owner: - Southern California Edison Company Unit: 2244 Walnut Grove Avenue, Rosennead, CA 91770 Traveler: \$03-93-007 CWO: 93072301000 San Onofre Nuclear Generating Station MMP: 3-6863.00SN Plant: P.O. Box 128, San Clemente, CA 92674-0128 P&ID: 40112503 \$3-1212-15 Non

Work Performed by: Bechtel Construction Company
P.O. Box 450 Type Code Symbol Stamp: N/A
San Clemente, CA 92674-0128 Authorization No: N/A

Expiration Date: N/A
Identification of System: Auxiliary Sampling System (1212)

5. (a) Applicable Construction Code: ASME Section III, Subsection NF, 1974 Edition, S'74 Addends, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 19"7 Edition, 5"79 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yel/No
3/	4° Pipe Strep	Corinnell	HT # B089	N/A	RSO # 0409-93	N/A	Replacement	No

7. Description of Work:

Modify existing pipe support \$3-\$\$-001-H-ONK. Performed welds HA, HB per the WR-5A/WFMCR's.

8. VT-3 - per procedure G005 - Rev. 5

FORM NIS-2 (back)

Section XI. Type Code Symbol Certificate of Author Signed: Bus	atements made in the report an tamp: N/A	FICATE OF CO!		o the rules of the ASME Code.
Section XI. Type Code Symbol Certificate of Author Signed: Bus	zation Not N/A	e correct and this	placement conforms t	o the rules of the ASME Code.
Certificate of Author	zation No: N/A			
Signed Bers				
Signed: Bus		Expiration Date	e: N/A	
	Curry Beck Owner's Designee, Title	to Field	Inst Mgs	Date: 01-26, 195
	CERT	TFICATE OF IN	SPECTION	
Norwood, Massache	ornia and employed by Artwo	right Mutual Insurance sents described in this of my knowledge and	Owner's Report during belief, the Owner has p	erformed examinations and taken
avaminations and o	ificate neither the Inspector no recetive measures described in the ner for any personal injury or p	his Owner's Report. roperty damage or a l	Furthermore, neither the loss of any kind arising i	e Inspector nor his employer shall from or connected with this
Inspector's	Thompson	Commissions		Province, and Endorsements)
1	27, 1994			
		AND DESCRIPTION OF THE PERSON		

As Required by the Provisions of the ASME Code Section XI

Owner: Southern California Edison Company Unit: 3
2244 Wainut Grove Avenue, Rosemead, CA 91770 Traveler: SO3-93-009
MO: 93110631

 Plant:
 San Opofre Nuclear Generating Station
 RS:
 279-93

 P.O. Box 128, San Clemente, CA 92674-0128
 P&ID:
 4011ASO3

 N-5:
 S3-1201-3

. Work Performed by: B&W Nuclear Services

Type Code Symbol Stamp: N/A

Identification of System: Reactor Coolant Authorization No: N/A Expiration Date: N/A

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S71 Addenda, Code Cases: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Steam Generator (Primary Side)	Combustion Engineering	72270-1	22264	S31301ME089P	1977	Repaired	Yes
Tube Sheet Plugs (2 each)	Teledyne Allvac	Ht. BC93-3	N/A	RSC 3185-93 SB 66, N06690	N/A	Replacement	No

Description of Work:

Note:

2.

The existing weld-in type tube plugs in locations R28-C72 and R34-C98 were machined out. The dimensions of the machined holes in the tubesheet were obtained. Two plugs were machined to the required dimensions in accordance with RS 279-93 and MO 93110631. A PT examination was performed on plugs after machining. The plugs were installed and sealwelded in accordance with B&W Process Traveler 50-121529 and SCE Section XI Traveler SO3-93-009. A VT-1 examination was performed on the sealweld.

8. Tests Conducted: System Leakage [] System Functional [] System Inservice [] Hydrostatic [] Pneumatic [] Other [] Pressure: N/A Temp: N/A Reference MO 93020823 for system leakage test on manway connections.

3

Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ¼ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

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

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer Date: 1/22

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetti: have inspected the components described in this Owner's Report during the period performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of

the ASME Code, Section 2J.

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

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

Date Jan. 25, 1944