

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
AGENCY: Arkwright Mutual Insurance Company
Factory Mutual Engineering Association
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 1 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-002 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 1 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 welds 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 already 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 - LPI 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 VT-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

ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

MO	Traveler	EQID	Class	NIS-2	Workdesc
8905288	001	3HV0514	III-2	2/15/94	REPLACED PIPE PLUG
89061826001		S31204MU016	III-2	5/12/93	REPLACED DISC & LEAK-OFF PLL'S
90052265000		3PSV9206	III-2	1/14/94	REPLACED VALVE
91060245000		S31212MR182	III-2	2/02/94	REPLACED VALVE DISC
91121216000		3FI6262	III-2	3/09/93	REPLACED 3-WAY VALVE MANIFOLD
92031609000		S31204MR319	III-1	1/17/94	REPLACED VALVE DISC
92032181001		S31201MR042	III-2	12/22/92	REPLACED FLEXIBLE HOSE ASSEMBLY
92032539001		S31201MP004	III-1	3/07/94	REPLACED CASING STUDS/NUTS, FLANGE NUTS
92041456000		3LT0313	III-2	7/22/92	REPLACED VALVE
92041841000		S31201MP004	III-1	8/21/92	REPLACED SEAL CARTRIDGE
92041904000		3HV8202	III-2	2/09/94	REPLACED BODY-TO-BONNET BOLTING
92050018000		S31206MU022	III-2	12/28/93	REPLACED VALVE DISC
92050930000		3TE01251	III-1	1/17/94	REPLACED THERMOWELL
92051610000		S31208MU067	III-2	11/23/92	REPLACED VALVE DISC
92060990000		S31201MP002	III-1	3/03/94	REPLACED MECHANICAL SEAL CARTRIDGE
92060992000		S3SS037H003	III-2	12/28/93	REPLACED PIPE SUPPORT ROD
92061348000		S31208MU083	III-2	1/17/94	REPLACED VALVE DISC
92071063000		3HV0514	III-2	1/14/94	REPLACED PIPING/RELOCATED VALVE
92072548001		3LT01102	III-2	2/02/94	REPLACED VALVE BYPASS MANIFOLD
92080359000		S31201MR043	III-1	1/20/93	REPAIRED VALVE W/BODY TO BONNET SEALWELD
92090262000		3PSV8155	III-2	3/09/93	REPLACED INTERNAL PARTS
92090987000		S31204MP019	III-2	2/05/93	REPAIRED PUMP DISCHARGE HEAD
92091721001		S31204MR176	III-2	12/17/92	REDESIGN VENT LINE EXTENSION TUBING
92091726000		S31204MR176	III-2	12/17/92	REDESIGN VENT LINE EXTENSION TUBING
92091740000		S31204MR176	III-2	12/17/92	REDESIGN VENT LINE EXTENSION TUBING
92091792000		3PSV9221	III-2	1/14/94	REPLACED VALVE
92091794000		S31201MP004	III-1	3/07/94	REPLACED MECHANICAL SEAL CARTRIDGE
92091827000		3PSV8410	III-2	1/14/94	REPLACED VALVE & INLET NUTS
92091828000		3PSV8411	III-2	1/14/94	REPLACED VALVE & INLET NUTS
92091829000		3PSV8415	III-2	1/14/94	REPLACED VALVE & INLET NUTS
92091830000		3PSV8403	III-2	1/14/94	REPLACED VALVE & INLET NUTS
92091831000		3PSV8414	III-2	1/14/94	REPLACED VALVE & INLET NUTS
92091836000		024-43877	III-1	1/14/94	REDRILLED ISI HOLES
92092029000		3HV0513	III-2	2/01/94	REPLACED VALVE PLUG
92092030001		3HV0512	III-2	2/01/94	REPLACED INNER VALVE
92092258000		S31204MR320	III-1	1/14/94	REPLACED VALVE DISC
92100117000		3LT03054	III-2	7/16/93	REPLACED VALVE
92111288000		S31201MR038	III-1	2/15/94	REPAIRED/WELDED BODY/BONNET JOINT
92111356000		S31201ME613	III-1	1/14/94	REPLACED PZR HEATER
92111357000		S31201ME623	III-1	1/14/94	REPLACED PZR HEATER PLUG
92112756001		S31204ML065	III-1	1/14/94	REPLACED PORTION OF PIPING
92120994000		S31201ME620	III-1	3/02/94	REMOVED HEATER SEAL WELD
92121424000		3PSV8154	III-2	1/06/94	REPLACED DISC, SPRING/WASH, SPINDLE, BASE
93010738000		3PSV0200	III-1	1/14/94	REPLACED VALVE, INLET STUDS & NUTS
93010745000		3PSV0201	III-1	1/14/94	REPLACED VALVE
93012466000		S31201MR040	III-1	2/15/94	REPAIRED/WELDED BODY/BONNET JOINT
93020105000		S31201MP001	III-1	2/15/94	REPLACED MECHANICAL SEAL CARTRIDGE
93020823000		S31301ME089P	III-1	1/14/94	REPLACED MANWAY STUDS & GEARED NUTS
93021747000		3PSV9349	III-2	1/06/94	REPLACED VALVE

ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

MO	Traveler	EQID	Class	NIS-2	Workdesc
93030293000		S3S1003H005	III-2	3/08/94	REPLACED SPRING CAN
93030294000		S3S1004H005	III-2	3/08/94	REPLACED SPRING CAN
93030750000		S3-1301-ML-363	III-2	3/08/94	INSTALLED WELDOLET FOR ML363
93030753000		S3-1301-ML-583	III-2	3/08/94	INSTALL WELDOLET ON ML583
93030775000		S3-1301-ML-578	III-2	3/08/94	PREFAB BYPASS LINE
93030792000		S3-1301-ML-004	III-2	3/08/94	INSTALL 3HV8200 BYPASS LINE
93030795000		S3-1301-ML-004	III-2	3/08/94	INSTALL 3HV8200 BYPASS LINE
93030796000		S3-1301-ML-578	III-2	3/08/94	INSTALLED BYPASS LINE ML578
93030808000		S3-1301-ML-578	III-2	3/08/94	INSTALLED BYPASS LINE ML578
93030819000		S3-1301-ML-004-4"	III-2	3/08/94	PREFAB BYPASS LINE
93030833001		S3-1301-ML-004-4"	III-2	3/08/94	INSTALL PREFAB LINE
93030892000		S3-1301-ML-578-4	III-2	3/08/94	PREFAB BYPASS LINE
93030895001		S3-1301-ML-578-4"	III-2	3/08/94	PREFAB BYPASS LINE
93031067000		S3-1301-ML-004	III-2	3/08/94	PREFAB BYPASS LINE
93032459000		S31206MP012	III-2	3/07/94	LPST/CROSSTIE HYDRO
93041428000		S3ST001H014,H022E-W	III-2	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041429000		S3ST001H031	III-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT, BRACKETS
93041430000		S3ST363H002	III-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93041435000		S3ST580H002	III-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT, BRACKETS
93041455000		S3ST001H013A-B	III-2	1/17/94	SPRING HANGER DELETIONS
93041457000		S3ST001H029	III-2	12/28/93	SPRING HANGER DELETION
93041472000		S3CS004H006	III-2	1/25/94	SNUBBER DELETION
93041475000		S3CS004H056	III-2	12/28/93	SNUBBER DELETION
93041478000		S3CS004H007	III-2	1/25/94	SNUBBER DELETION
93041484000		S3CS004H002,H043	III-2	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041537000		S3CS004H014,053,054	III-2	12/28/93	SNUBBER DELETIONS
93041543000		S3CS004H028	III-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT, BRACKETS
93041551000		S3CS004H048E	III-2	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041562000		S3CS031H003	III-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93041588000		S3FS057H098B-T	III-2	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041614000		S3VC007H010	III-2	12/28/93	SNUBBER DELETION
93041627000		S3VC007H017	III-2	2/25/94	REPLACED SWAY STRUT W/RIGID STRUT,&BRKTS
93041938000		S3ST016H704,714,727,731	III-2	1/17/94	SNUBBER DELETIONS
93041939000		S3ST016H706,H716	III-2	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041940000		S3ST016H701	III-2	2/02/94	REPLACED SNUBBER & MOUNTING HARDWARE
93041942000		S3ST001H059	III-2	12/28/93	SNUBBER DELETION
93041943000		S3ST001H060,H062,H065	III-2	2/25/94	REPLACED SNUBBERS W/RIGID STRUTS
93041944000		S3S1065H042	III-1	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93042050000		S3CS020H003	III-2	12/28/93	SNUBBER DELETION
93042132000		S3S1132H002	III-2	1/17/94	SNUBBER DELETION
93042134000		S3CS020H001	III-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93042135000		S3RC094H009	III-2	12/28/93	SNUBBER DELETION
93042136000		S3RC096H025	III-2	12/28/93	SNUBBER DELETION
93042139000		S3ST018H702,706-07,713,722-23	III-2	12/28/93	SNUBBER DELETIONS
93042140000		S3ST018H709	III-2	2/25/94	REPLACED SNUBBER W/RIGID STRUT
93042170000		S3S1166H002	III-1	12/28/93	SNUBBER DELETION
93042177001		S3ST016H00F	III-2	1/25/94	REPLACED TRANVERSE PIPE STOP
93050031000		S31204MP015	III-2	2/08/94	INCREASED WELD SIZE OF PUMP FEET
93050032000		S31204MP016	III-2	2/08/94	INCREASED WELD SIZE OF PUMP FEET

ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

MO	Traveler	EQID	Class	NIS-2	Workdesc
93050033000		S31206MP012	III-2	2/08/94	INCREASED WELD SIZE OF PUMP FEET
93050034000		S31206MP013	III-2	2/08/94	INCREASED WELD SIZE OF PUMP FEET
93050055000		S31204MU027	III-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	III-2	2/04/94	LPSI PUMP SEAL PIPING MOD
93051471001		S31204MP016	III-2	2/04/94	PREFAB PUMP PIPING
93051484000		S31204MP015	III-2	2/04/94	LPSI PUMP SEAL PIPING MOD
93051488000		S31204MP016	III-2	2/04/94	INSTALL/MOD LPSI PUMP PIPING
93051505000		S31204MP015	III-2	2/04/94	LPSI PUMP SEAL PIPING MOD
93051507000		S31204MP016	III-2	2/04/94	MOD PUMP CONNECTIONS TO ACCEPT PIPING
93051508000		S31204MP015	III-2	2/04/94	LPSI PUMP SEAL PIPING MOD
93051524000		S31204MP016	III-2	2/08/94	MODIFIED TUBING FOR HIGHER ELEV OF PUMP
93061877000		S31204MU027	III-1	1/14/94	FAB'D STUDS FROM ALL-THREAD
93072200000		3PSV8406	III-2	1/14/94	REPLACED VALVE & INLET FLANGE NUTS
93080291000		S31204MP016	III-2	2/04/94	MOD PUMP CONNECTIONS TO ACCEPT PIPING
93080872001		3-6863 .00	III-2	3/07/94	PSE FOR CROSSTIE DCP
93080904001		S31203MP1018	III-2	2/24/94	SEISMIC UPGRADE OF CCW MAKE-UP
93080905001		S31203MP1019	III-2	2/24/94	SEISMIC UPGRADE OF CCW MAKE-UP
93080938000		S31204MU156	III-1	2/02/94	REPLACED HINGE PIN COVER STUDS & NUTS
93080939000		S31204MU152	III-1	1/14/94	REPLACED HINGE PIN COVER STUDS & NUTS
93080940000		S31204MU029	III-1	1/14/94	REPLACED HINGE PIN COVER STUDS & NUTS
93080941000		S31204MU033	III-1	1/14/94	REPLACED HINGE PIN COVER STUDS & NUTS
93081174000		3HV4052	III-2	1/14/94	REPLACED/SW PIPE PLUGS, REPLACED BONNET
93081476000		VT-3 EXAM	III-2	3/08/94	VT3 EXAMS OF PIPE SUPPCRTS
93081774000		3HV9364	III-2	1/14/94	REPLACED MAIN DISC
93081775000		3HV9374	III-2	1/17/94	REPLACED VALVE DISC
93090430000		3HV6569	III-2	2/24/94	SEISMIC UPGRADE OF CCW MAKE-UP
93091266000		S31206MU018	III-2	3/07/94	HYDRD FOR S03-93-006
93091444001		{S31208MU014}	III-2	12/28/93	REPLACED FLANGE STUDS & NUTS(UPSTM VLV)
93100554001		S31201MU021	III-1	1/14/94	REPLACED VALVE & UPSTREAM PIPE
93100613001		S3FW189H010B	III-2	2/15/94	REPLACED SNUBBER
93100614000		S3FW189H010T	III-2	3/04/94	REPLACED SNUBBER
93100716000		S3FW190H014T	III-2	12/29/93	REPLACED SNUBBER
93100719001		S31208MR247	III-2	12/29/93	REPLACED VALVE DISC
93100721000		S31208MR084	III-2	1/14/94	REPLACED VALVE DISC
93100722000		S31208MR144	III-2	1/14/94	REPLACED VALVE DISC
93100726000		S31212MU010	III-2	1/25/94	REPLACED VALVE DISC
93100822002		S31219MU052	III-2	1/25/94	MACHINED AND REPLACED VALVE DISC
93100833000		S31301ME088	III-1	2/24/94	REPLACED HANDHOLD STUDS & NUTS
93100845000		S3ST016H715	III-2	12/29/93	REPLACED SNUBBER
93100907000		S3RC012H057	III-1	1/07/94	REPLACED LOAD PIN
93100952000		S31301ME088	III-1	2/24/94	REPLACED MANWAY COVER STUDS & NUTS
93100987000		S3VC008H023	III-2	1/06/94	REPLACED SNUBBER
93101215000		S3FW189H012	III-2	1/06/94	REPLACED SNUBBER
93101216000		S3FW189H013B	III-2	12/28/93	REPLACED SNUBBER
93101314000		S3S1014H012	III-2	1/17/94	REPLACED SNUBBER
93101357000		S31204MU015	III-2	3/02/94	REPLACED VALVE DISC
93101360000		S3ST014H011	III-2	12/28/93	REPLACED SNUBBER
93101532001		S31201MU114	III-2	1/06/94	REPLACED VALVE DISC

ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

MO	Traveler	EQID	Class	NIS-2	Workdesc
93101612000		3PSV8403	III-2	1/14/94	ATTACHED MFR NAMEPLATE
93101625000		S3S1045H013	III-1	12/28/93	REPLACED SNUBBER
93101679000		S3I219MR050	III-2	2/07/94	REPLACED VALVE AND NIPPLE
93101730000		3PSV8406	III-2	1/14/94	ATTACHED MFR NAMEPLATE
93101731000		3PSV8410	III-2	1/14/94	ATTACHED MFR NAMEPLATE
93101732001		3PSV8411	III-2	1/14/94	ATTACHED MFR NAMEPLATE
93101733001		3PSV8414	III-2	1/14/94	ATTACHED MFR NAMEPLATE
93101734001		3PSV8415	III-2	1/14/94	ATTACHED MFR NAMEPLATE
93101740000		S3S1045H016T	III-1	12/28/93	REPLACED SNUBBER
93101741000		S3RC079H001	III-2	12/28/93	REWELDED PIPE SUPPORT
93101742000		S3I204MP016	III-2	2/04/94	MOD LPSI PUMP SEAL PIPING
93101798000		S3I201ME620	III-1	3/02/94	INSTALL/SEAL WELD HEATER PLUG
93101799000		S3I201ME623	III-1	1/14/94	INSTALL/SEAL WELD HEATER PLUG
93101808000		S3RCP01H001	III-1	1/25/94	REPLACED SNUBBER CONTROL VALVE
93101813000		S3S1044H004	III-1	2/09/94	REPLACED SNUBBER
93101833000		PZR PLUGS	III-1	3/02/94	FAB'D PZR HEATER PLUG
93101852001		S3I201MU994	III-2	2/04/94	REPAIRED VALVE BODY LINEAR INDICATION
93110025000		S3I301ME089	III-1	2/24/94	REPLACED MANWAY COVER STUDS & NUTS
93110065000		S3S1152H001	III-1	1/14/94	REPLACED SNUBBER
93110116000		3HV0517	III-2	3/11/94	REPLACED VALVE PLUG, BONNET STUDS/NUTS
93110138000		S3S1087H018	III-2	2/02/94	REPLACED PIPE CLAMP, ADDED SPACERS
93110201000		S3I208MU061	III-2	1/17/94	REPLACED VALVE DISC
93110214001		S3S1014H012	III-2	2/09/94	REPLACED SNUB, BRACKTS, TRANS TUBE, SPACER
93110235000		3HV8202	III-2	2/09/94	CUT STUDS FROM ALL-THREAD
93110631000		S3I301ME089P	III-1	1/25/94	MACHINED PLUGS
93110649000		S3CS001H015	III-2	1/25/94	REPLACED SNUBBER
93110776000		S3CS001H015	III-2	1/25/94	REPLACED FORWARD BRACKET & BOLTS
93110824000		S3I204MU003	III-2	12/29/93	REPLACED FLANGE STUD
93110832000		S3S1003H017	III-2	1/14/94	REPLACED SNUBBER
93110895000		S3I201MP004	III-1	12/28/93	REPAIRED SUPPORT LINK ARC STRIKE
93111108001		S3I305ML189 (S3I301ME088)	III-2	2/24/94	REMOVE/REINSTALLED GAMMA PLUG
93111134000		S3ST580H002	III-2	2/25/94	MACHINED END PADDLES
93111150000		S3I305ML189 (S3I301ME088)	III-2	2/24/94	REINSTALLED PIPE SPOOL
93111157000		S3I305ML189 (S3I301ME088)	III-2	2/24/94	REINSTALLED PIPE SPOOL
93111195001		3HV9354	III-2	3/02/94	REPLACED VALVE DISC
93111208001		S3I206MU104	III-2	2/08/94	REPLACED VALVE DISC
93111219000		S3I305ML189 (S3I301ME088)	III-2	2/24/94	FAB'D GAMMA PLUG
93111220001		S3I305ML189 (S3I301ME088)	III-2	2/24/94	REPAIRED SAFE-END
93111311000		S3ST001H022E	III-2	1/14/94	REPLACED LOAD PIN
93111494000		S3ST002H061	III-2	2/02/94	REPLACED SNUBBER
93111537000		S3I305ML189 (S3I301ME088)	III-2	2/24/94	REPAIRED ELBOW
93111783000		S3I305ML190 (S3I301ME089)	III-2	2/24/94	REINSTALLED SPOOL PIECE, REPL GAMMA PLUG
93111786000		S3I305ML190 (S3I301ME089)	III-2	2/24/94	REINSTALLED SPOOL PIECE
93111810000		S3I305ML190 (S3I301ME089)	III-2	2/24/94	REPAIRED ELBOW
93111903000		S3I305ML190 (S3I301ME089)	III-2	2/24/94	REMOVED/REINSTALL GAMMA PLUG
93111904000		S3I301ME089	III-2	2/24/94	REPAIRED SG SAFE-END
93111909001		S3I104CEDM	III-1	1/14/94	SEAL WELDED HOUSING NUT
93111951000		S3I305ML190 (S3I301ME089)	III-2	2/24/94	FAB'D GAMMA PLUG
93112099001		S3I206MU104	III-2	2/08/94	PERFORMED PRESSURE TEST

ABSTRACT OF RECORDS OF REPAIRS AND REPLACEMENTS

MO	Traveler	EQID	Class	NIS-2	Workdesc
93112103000		S3FW189H010B	III-2	1/17/94	REPLACED SNUBBER
93120130000		FGD-J3-PT0313	III-2	2/01/94	REPLACED TUBING & TUBING TEE
93120875009		S31201MP002	III-1	3/03/94	REPLACED MECHANICAL SEAL CARTRIDGE
91041421000	S03-91-006	S31204MR028	III-2	8/04/92	INSTALLED NEW VALVE & 1/2" TUBING
91041416000	S03-91-007	S31204MR088	III-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041427000	S03-91-008	S31204MR089	III-2	8/04/92	INSTALLED NEW VALVE & 1/2" TUBING
91041423000	S03-91-009	S31204MR367	III-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041417000	S03-91-010	S31204MR106	III-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041429001	S03-91-011	S31204ML110	III-2	9/11/92	REDESIGN 1/2" TUBING, NEW ISOL VALVE
91041431000	S03-91-012	S31204MR133	III-2	8/04/92	INSTALLED NEW VALVE & 1/2" TUBING
91041419000	S03-91-020	S31204MR279	III-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041433000	S03-91-021	S21204MR356	III-2	8/04/92	INSTALLED NEW VALVE & 1/2" TUBING
91041358000	S03-91-022	S31204MR368	III-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041413000	S03-91-023	S31204MR395	III-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
91041414000	S03-91-024	S31204MR538	III-2	6/17/92	INSTALLED 1/2" TUBING & ISOL VALVE
	S03-93-001	S31201ML321, ML134	III-2	3/07/94	CROSS-TIE ML321 TO ML134, MOD PIPE SUPP
	S03-93-002	S31201ML001, 002, 032, 033	III-2	3/07/94	ADD HX BLOCK VALVES & THERMOCOUPLES
	S03-93-003	S31204ML003, 004	III-2	3/07/94	TIE-IN ML321 TO ML003, 4, MOD PIPE SUPP
	S03-93-004	S31204ML038	III-2	3/07/94	ADD HX BLOCK VALVE & THERMOCOUPLE
	S03-93-006	S31206ML063, ML063	III-2	3/07/94	TIE-IN ML063, ML064 FOR SFC, MOD PIPE SUPP
93072301000	S03-93-007	S3SS001HONK	III-2	1/27/94	MODIFIED PIPE SUPPORT
	S03-93-009	S31301ME089P	III-1	1/25/94	REPLACED WELDED TAPER PLUGS

ASMEMO R3

ATTACHMENT 6.0

FIRST TEN YEAR INTERVAL ISI STATUS

UNIT 3 FIRST TEN YEAR INTERVAL ISI STATUS

Inspection Frequency

Class 1 and 2

Exam Cat.	Plant Total	% Req.	Num. Req.	1st Per. 16%-34%		2nd Per. 50%-67%		3rd Per. 100%		Num. Done
				Number	% Done	Number	% Done	Number	% Done	
B-A	27	100%	27	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	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	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	100%	6
B3.100	6	100%	6	2	33%	0	33%	4	100%	6
B3.110	5	100%	5	1	20%	0	20%	4	100%	5
B3.120	5	100%	5	1	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	100%	5
B5.50	23	100%	23	7	30%	15	96%	1	100%	23
B-G-1	408	65%	264	90	34%	94	70%	141	123%	325
B6.10	54	100%	54	18	33%	19	69%	17	100%	54
B6.30	54	100%	54	36	67%	19	102%	36	169%	91
B6.40	54	100%	54	18	33%	18	67%	18	100%	54
B6.50	54	100%	54	18	33%	38	104%	22	144%	78
B6.180	64	25%	16	0	0%	0	0%	16	100%	16
B6.200	128	25%	32	0	0%	0	0%	32	100%	32
B-G-2	466	38%	179	8	4%	5	7%	213	126%	226
B7.20	20	100%	20	0	0%	0	0%	20	100%	20
B7.30	160	50%	80	0	0%	0	0%	80	100%	80
B7.60	256	25%	64	0	0%	0	0%	96	150%	96
B7.70	30	50%	15	8	53%	5	87%	17	200%	30
B-H	3	67%	2	1	50%	1	100%		100%	2
B8.20	1	100%	1	1	100%	0	100%	0	100%	1
B8.30	2	50%	1	0	0%	1	100%	0	100%	1

UNIT 3 FIRST TEN YEAR INTERVAL ISI STATUS

Inspection Frequency

Class 1 and 2

Exam Cat.	Plant Total	% Req.	Num. Req.	1st Per. 16%-34%		2nd Per. 50%-67%		3rd Per. 100%		Num. Done
				Number	% Done	Number	% Done	Number	% Done	
B-J	721	37%	268	72	27%	96	63%	200	137%	368
B9.11	373	37%	139	44	32%	45	64%	124	154%	213
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
B-L-1	8	25%	2	0	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%	1
B12.20	4	25%	1	0	0%	0	0%	1	100%	1
B-M-1	16	40%	6	0	0%	0	0%	6	100%	6
B12.30	16	40%	6	0	0%	0	0%	6	100%	6
B-M-2	10	50%	5	0	0%	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	0%	31	100%	31
B-N-3	2	100%	2	0	0%	0	0%	2	100%	2
B13.30	2	100%	2	0	0%	0	0%	2	100%	2
B-O	287	24%	68	9	13%	15	35%	44	100%	68
B14.10	287	24%	68	9	13%	15	35%	44	100%	68
B-E/B-P	6	100%	6	2	33%	2	67%	2	100%	6
Leakage All Items	6	100%	6	2	33%	2	67%	2	100%	6
C-A	19	50%	10	2	21%	8	100%	0	100%	10
C1.10	10	50%	5	1	20%	4	100%	0	100%	5
C1.20	4	50%	2	0	0%	2	100%	0	100%	2
C1.30	5	50%	3	1	40%	2	100%	0	100%	3
C-B	16	80%	13	0	0%	9	69%	4	100%	13
C2.20	16	80%	13	0	0%	9	69%	4	100%	13
C-C	104	27%	28	0	0%	12	43%	16	100%	28
C3.10	10	60%	6	0	0%	5	83%	1	100%	6
C3.40	94	23%	22	0	0%	7	32%	15	100%	22
C-E-1	200	18%	36	5	14%	11	44%	20	100%	36
C2.5	194	17%	33	5	15%	11	49%	17	100%	33
C3.3	6	50%	3	0	0%	0	0%	3	100%	3

UNIT 3 FIRST TEN YEAR INTERVAL ISI STATUS

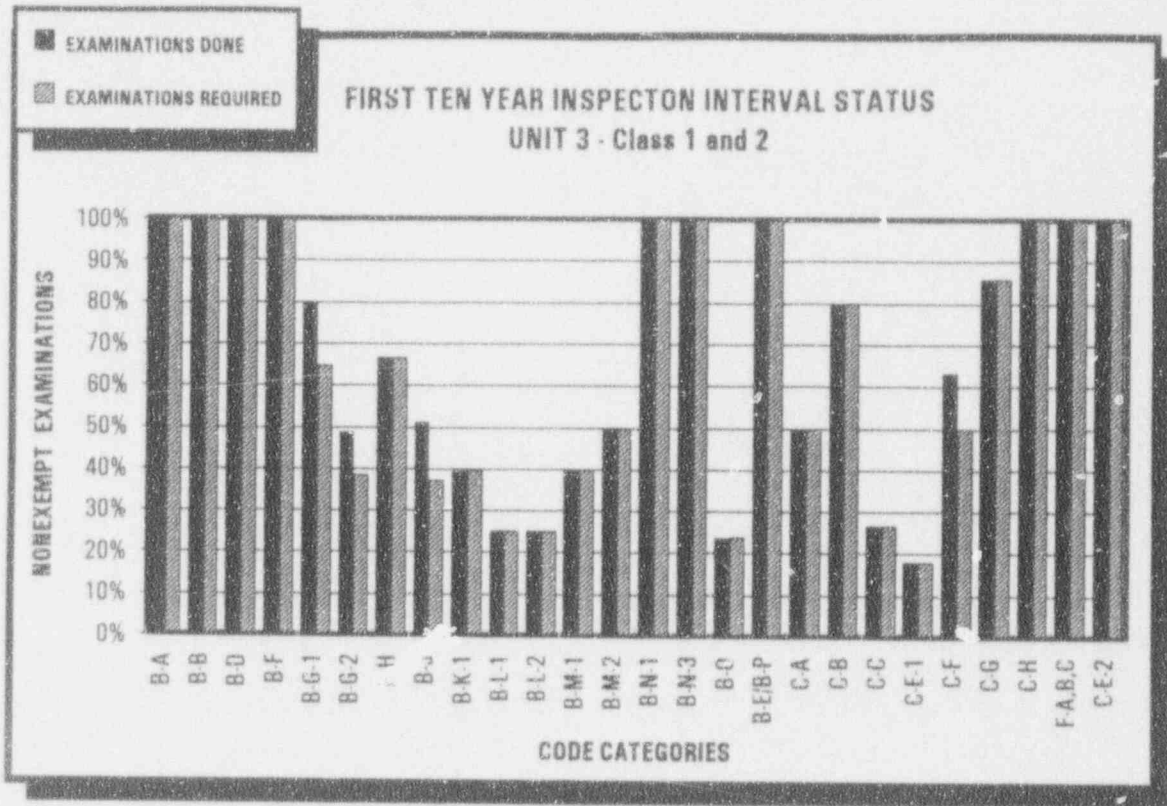
Inspection Frequency

Class 1 and 2

Exam Cat.	Plant Total	% Req.	Num. Req.	1st Per. 16%-34%		2nd Per. 50%-67%		3rd Per. 100%		Num. Done
				Number	% Done	Number	% Done	Number	% 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%	1	2	267%	1	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
C-H	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%	342
F-2	13	100%	13	1	8%	2	23%	10	100%	13
F-3	181	100%	181	54	30%	66	66%	61	100%	181
F-4	148	100%	148	16	11%	63	53%	69	100%	148
C-E-2	265	100%	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%	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 tube 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 Item B12.30.
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 CATEGORY	CATEGORY TITLE	EXAMS REQUIRED	EXAMS DONE
B-A	REACTOR VESSEL WELDS	27	27
B-B	OTHER VESSEL WELDS	37	37
B-D	VESSEL NOZZLE WELDS	34	34
B-F	DISSIMILAR METAL WELDS	28	28
B-G-1	BOLTING > 2" DIA.	264	325
B-G-2	BOLTING < or = 2" DIA.	179	226
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
B-N-1	REACTOR VESSEL INTERIOR	31	31
B-N-3	REMOVABLE CORE STRUCTURE	2	2
B-O	CONTROL ROD HOUSING WELDS	68	68
B-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
C-G	PUMP AND VALVE WELDS	12	12
C-H	PRESSURE RETAINING BOUNDARY	63	63
F,A,B,C	COMPONENT SUPPORTS	342	342
C-E-2	COMPONENT SUPPORTS	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 NO HOT OR COLD LOAD INDICATORS
03-024-550	VT-3	393-07IVT-016	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 recordable indications.
03-035-011	UT45	393-07IUT-037	Geometric Indications: Reflectors from flywheel bore and keyway geometry.
03-035-012	UT45	393-07IUT-037	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 93100160 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 extension 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
03-044-060	UT60	393-07IUT-062	Geometric Indication: Reflector from counterbore in extension piece. PER NRC I.N. 93-20
03-045-270	UT45	393-07IUT-057	Geometric Indication: Reflector at weld root. PER NRC I.N. 93-20
03-045-310	UT45	393-07IUT-058	Geometric Indications: Reflectors from water interface, confirmed with 0° transducer. PER NRC I.N. 93-20
03-045-360	UT60	393-07IUT-052	Geometric Indications: Reflectors from weld crown. PER NRC I.N. 93-20 AUTOMATED UT EXAM
03-045-360	UT45	393-07IUT-052	Geometric Indication: Reflector from weld root. PER NRC I.N. 93-20 AUTOMATED UT EXAM
03-045-360	UT45	393-07IUT-048	Geometric Indications: Reflectors at weld crown and root. PER NRC I.N. 93-20 AUTOMATED UT EXAM
03-045-360	UT60	393-07IUT-048	Geometric Indications: Reflectors from counterbores in extension piece and elbow. PER NRC I.N. 93-20 AUTOMATED UT EXAM
03-046-610	VT-4	393-07IVT-020	Geometric Indications: Reflectors from counterbores in extension piece and elbow. 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 settings were found within Spec.
03-046-830	UT45	393-07IUT-018	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 NUMBER	EXAM METHOD	EXAM DATA SHEET NO.	REMARKS
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 surface corrosion, which was found acceptable.
03-047-480	VT-4	393-07IVT-034	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 1/2" / 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.
03-050-200B	UT45	393-07IUT-042	Geometric Indication: Reflector from weld crown.
03-050-210	UT45	393-07IUT-042	Geometric Indications: Reflectors from weld crown.
03-051-190	UT45	393-07IUT-030	Geometric indication was reflector at weld crown.
03-052-100	UT45	393-07IUT-024	Geometric indications were reflectors at weld crown and root.
03-061-1460	PT	3PT-048-93	Recordable indication was determined to be 5/32" long and found acceptable per IWB-3514.
03-066-712	PT	3PT-026-93	Recordable indication was 1/8" in dia. and found to be acceptable per IWB-3514.
03-072-1690	PT	3PT-032-93	Two recordable indications, 1/8" and 3/32" rounded, were found in southeast side of fillet weld. Both indications were found acceptable per IWB-3514.
03-081-010	UT45	393-07IUT-023	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 3ME087	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: March 31, 1992 to: December 30, 1993
9. Inspection Period: 3rd Period: December 4, 1990 to March 31, 1994
10. Inspection Interval Identification: First Interval: April 4, 1984 to March 31, 1994
11. Applicable Edition of Section XI: 1977 Edition, Addenda Summer 1979
12. Date/Revision of Inspection Plan: 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 P. Haet

Title:

Manager Site Technical Services

CERTIFICATE OF INSERVICE INSPECTION

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

R. Thompson
Inspector's Signature

Commissions 1862 CA, NB8024 I.S.I.S, C, B, N,
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		003000	11/12/93

EQUIPMENT I.D.: REACTOR VESSEL CLOSURE HEAD S3-1101-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

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

CODE CLASS: 1 CODE CATEGORY: B-D

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

03-001-021	B03.90	UT	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

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

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

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						
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	VT-1			393-07IVT-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 CLASS: 1 CODE 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	VT-1			393-07IVT-065	10/31/93
03-038-043	B06.200	VT-1			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

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
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CODE CLASS: 1 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
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EQUIPMENT I.D.: LOOP 1B SAFETY INJECTION 1204-060-12"-A-FEO

03-018-010C	B07.70	VT-1			393-07IVT-008	10/18/93
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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
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EQUIPMENT I.D.: SAFETY INJECTION TO LOOP 2B 1204-046-8"-A-FEO

03-020-540C	B07.70	VT-1			393-07IVT-002	10/15/93
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EQUIPMENT I.D.: SAFETY INJECTION TO LOOP 2B 1204-155-3"-A-FEO

03-020-650C	B07.70	VT-1			393-07IVT-009	10/19/93
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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
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EQUIPMENT I.D.: PRESSURIZER SPRAY LINE LOOP 1B, 1201-013-4

03-022-150B	B07.70	VT-1			393-07IVT-003	10/15/93
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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
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EQUIPMENT I.D.: REACTOR COOLANT PUMP 2B S3-1201-MP-002

03-037-080	B07.60	VT-1			393-07IVT-063	10/27/93
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03-037-081	B07.60	VT-1			393-07IVT-063	10/27/93
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03-037-082	B07.60	VT-1			393-07IVT-063	10/27/93
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03-037-083	B07.60	VT-1			393-07IVT-063	10/27/93
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03-037-084	B07.60	VT-1			393-07IVT-063	10/27/93
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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 CLASS: 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-1			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 Date
CODE CLASS: 1 CODE CATEGORY: BG2						
03-037-115	B07.60	VT-1			393-07IVT-062	10/27/93
03-037-116	B07.60	VT-1			393-07IVT-062	10/27/93
03-037-117	B07.60	VT-1			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			393-07IVT-062	10/27/93
03-037-121	B07.60	VT-1			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

EQUIPMENT ID: REACTOR COOLANT PUMP 2A S3-1201-MP-004

03-038-080	B07.60	VT-1			393-07IVT-066	11/09/93
03-038-081	B07.60	VT-1			393-07IVT-066	11/09/93
03-038-082	B07.60	VT-1			393-07IVT-066	11/09/93
03-038-083	B07.60	VT-1			393-07IVT-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	B07.60	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 CLASS: 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			393-07IVT-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-066	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	11/09/93
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			393-07IVT-078	11/01/93
03-038-121	B07.60	VT-1			393-07IVT-078	11/01/93
03-038-122	B07.60	VT-1			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 Date
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CODE CLASS: 1 CODE CATEGORY: 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

EQUIPMENT I.D: SAFETY INJECTION FROM #2 HP HEADER 1204-165-3"-A-FEO

03-039-010C	B07.70	VT-1			393-07IVT-026	10/25/93
03-039-400C	B07.70	VT-1			393-07IVT-025	10/25/93

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

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 S3-1101-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		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		393-07IPT-018	10/20/93
03-002-015A-04	B09.11	PT	CIRC		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

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 1 CODE CATEGORY: 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: STEAM GENERATOR #1 (PRIMARY SIDE) 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: STEAM GENERATOR #2 (PRIMARY SIDE) 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

EQUIPMENT I.D: PRESSURIZER S3-1201-ME-087

03-005-034	B09.11	PT	CIRC		393-07IPT-057	11/02/93
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EQUIPMENT I.D: HOT LEG LOOP 1, RPV TO S/G E089 1201-001-42

03-006-001	B09.11	MT	CIRC		393-07IMT-011	10/23/93
03-006-002 SG	B09.12	MT	LONG		393-07IMT-011	10/23/93
03-006-003 SG	B09.12	MT	LONG		393-07IMT-011	10/23/93
03-006-008	B09.31	MT	CIRC		393-07IMT-011	10/23/93
03-006-008	B09.31	UT	CIRC	UT-4	393-07IUT-013	10/23/93
03-006-009	B09.31	MT	CIRC		393-07IMT-011	10/23/93
03-006-009	B09.31	UT	CIRC	UT-4	393-07IUT-013	10/23/93

EQUIPMENT I.D: HOT LEG LOOP 2, RPV TO S/G E088 1201-002-42

03-007-001	B09.11	MT	CIRC		393-07IMT-002	10/18/93
03-007-002 SG	B09.12	MT	LONG		393-07IMT-002	10/18/93
03-007-002 SG	B09.12	UT	LONG	UT-4	393-07IUT-009	10/21/93
03-007-003 SG	B09.12	UT	LONG	UT-4	393-07IUT-009	10/21/93

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 1 **CODE CATEGORY:** 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: COLD LEG LOOP 1B, S/G E089 TO RCP 3MP-003 1201-005-30

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
03-008-018	B09.31	MT	CIRC		393-07IMT-016	10/25/93

EQUIPMENT I.D: COLD LEG LOOP 1B, RC PUMP 3MP-003 TO RPV 1201-009-30

03-009-001	B09.11	PT	CIRC		393-07IPT-035	10/25/93
03-009-003 P	B09.12	MT	LONG		393-07IMT-017	10/25/93
03-009-004 P	B09.12	MT	LONG		393-07IMT-017	10/25/93
03-009-006 RV	B09.12	UT	LONG	UT-6	100000	11/08/93
03-009-007 RV	B09.12	UT	LONG	UT-6	100100	11/08/93
03-009-008	B09.11	UT	CIRC	UT-6	100200	11/08/93
03-009-009	B09.31	MT	CIRC		393-07IMT-017	10/25/93
03-009-010	B09.31	MT	CIRC		393-07IMT-017	10/25/93

EQUIPMENT I.D: COLD LEG LOOP 1A, S/G E089 TO RCP 3MP-001 1201-003-30

03-010-001	B09.11	PT	CIRC		393-07IPT-028	10/23/93
03-010-003 P	B09.12	MT	LONG		393-07IMT-012	10/23/93
03-010-004 P	B09.12	MT	LONG		393-07IMT-012	10/23/93
03-010-012 SG	B09.12	MT	LONG		393-07IMT-012	10/23/93
03-010-013 SG	B09.12	MT	LONG		393-07IMT-012	10/23/93

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 1 CODE CATEGORY: 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.: COLD LEG LOOP 1A, RC PUMP 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		393-07IMT-013	10/23/93
03-011-004 P	B09.12	MT	LONG		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.D.: COLD LEG LOOP 2B, S/G E088 TO RCP 3MP-002 1201-006-30

03-012-001	B09.11	PT	CIRC		393-07IPT-033	10/25/93
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		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.: COLD LEG LOOP 2B, RC PUMP 3MP-002 TO RPV 1201-010-30

03-013-001	B09.11	PT	CIRC		393-07IPT-030	10/23/93
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Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 1 CODE CATEGORY: B-J						
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.D.: COLD LEG LOOP 2A, S/G E088 TO RCP 3MP-004 1201-004-30

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
03-014-017	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.: COLD LEG LOOP 2A, RC PUMP 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
03-015-009	B09.31	MT	CIRC		393-07IMT-005	10/21/93
03-015-014	B09.31	MT	CIRC		393-07IMT-005	10/21/93

EQUIPMENT I.D.: PRESSURIZER SURGE LINE 1201-015-12"-A-EEO

03-016-001	B09.11	PT	CIRC		393-07IPT-036	10/25/93
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Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 1 CODE CATEGORY: 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

EQUIPMENT I.D.: LOOP 1A SAFETY INJECTION 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		393-07IPT-001	10/15/93
03-017-100	B09.11	PT	CIRC		393-07IPT-001	10/15/93
03-017-130	B09.11	PT	CIRC		393-07IPT-008	10/18/93

EQUIPMENT I.D.: LOOP 1A SAFETY INJECTION 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		393-07IPT-009	10/18/93

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

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
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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

03-018-120	B09.11	PT	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

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 1 **CODE CATEGORY:** 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 I.D.: LOOP 1B SAFETY INJECTION 1204-044-4"-A-FEO

03-018-450	B09.11	PT	CIRC		393-07IPT-004	10/15/93
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EQUIPMENT I.D.: LOOP 2A SAFETY INJECTION 1204-045-8"-A-FEO

03-019-130	B09.11	PT	CIRC		393-07IPT-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

EQUIPMENT I.D.: LOOP 2A SAFETY 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

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 1 CODE CATEGORY: 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

EQUIPMENT ID: SAFETY INJECTION TO LOOP 2B 1204-062-12"-A-FEO

03-020-020	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 ID: SAFETY INJECTION TO LOOP 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 ID: SAFETY INJECTION TO LOOP 2B 1204-046-8"-A-FEO

03-020-370	B09.11	PT	CIRC		393-07IPT-006	10/16/93
03-020-380	B09.11	PT	CIRC		393-07IPT-006	10/16/93
03-020-500	B09.11	UT	CIRC	UT-26	393-07IUT-005	10/18/93
03-020-500	B09.11	PT	CIRC		393-07IPT-006	10/16/93
03-020-520	B09.11	PT	CIRC		393-07IPT-006	10/16/93
03-020-520	B09.11	UT	CIRC	UT-26	393-07IUT-005	10/18/93
03-020-530	B09.11	PT	CIRC		393-07IPT-006	10/16/93

EQUIPMENT ID: SHUTDOWN COOLING INSIDE CONTAINMENT

03-021-010	B09.11	PT	CIRC		393-07IPT-026	10/22/93
03-021-020	B09.11	UT	CIRC	UT-28	393-07IUT-012	10/23/93
03-021-020	B09.11	PT	CIRC		393-07IPT-032	10/23/93

EQUIPMENT ID: SHUTDOWN COOLING INSIDE CONTAINMENT

03-021-090	B09.11	PT	CIRC		393-07IPT-077	11/11/93
03-021-110	B09.11	PT	CIRC		393-07IPT-077	11/11/93

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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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	B09.11	PT	CIRC		393-07IPT-064	11/08/93
03-021-240	B09.11	UT	CIRC	UT-28	393-07IUT-035	11/13/93
03-021-240	B09.11	PT	CIRC		393-07IPT-084	11/15/93
03-021-250	B09.11	PT	CIRC		393-07IPT-084	11/15/93
03-021-270	B09.11	PT	CIRC		393-07IPT-064	11/08/93
03-021-300	B09.11	PT	CIRC		393-07IPT-064	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	B09.11	PT	CIRC		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
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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	PT	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
03-022-112	B09.11	PT	CIRC		393-07IPT-003	10/15/93

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 1 CODE CATEGORY: 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.: PRESSURIZER SPRAY LINE LOOP 1B, 1201-014-4

03-022-172	B09.11	UT	CIRC	UT-25	393-07IUT-011	10/22/93
03-022-172	B09.11	PT	CIRC		393-07IPT-024	10/21/93
03-022-173	B09.11	UT	CIRC	UT-25	393-07IUT-011	10/22/93
03-022-173	B09.11	PT	CIRC		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
03-022-176	B09.11	PT	CIRC		393-07IPT-031	10/23/93

EQUIPMENT I.D.: PRESSURIZER SPRAY LINE FROM LOOP 1B 1201-011-3"-A-FEO

03-023-100	B09.21	PT	CIRC		393-07IPT-060	11/04/93
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EQUIPMENT I.D.: PRESSURIZER SPRAY LINE FROM LOOP 1B 1201-012-4"-A-FEO

03-023-161	B09.11	UT	CIRC	UT-25	393-07IUT-019	11/04/93
03-023-161	B09.11	PT	CIRC		393-07IPT-060	11/04/93
03-023-162	B09.11	PT	CIRC		393-07IPT-060	11/04/93
03-023-162	B09.11	UT	CIRC	UT-25	393-07IUT-019	11/04/93
03-023-163	B09.11	UT	CIRC	UT-25	393-07IUT-019	11/04/93
03-023-163	B09.11	PT	CIRC		393-07IPT-060	11/04/93
03-023-164	B09.11	PT	CIRC		393-07IPT-060	11/04/93
03-023-164	B09.11	UT	CIRC	UT-25	393-07IUT-019	11/04/93
03-023-166	B09.11	PT	CIRC		393-07IPT-060	11/04/93
03-023-166	B09.11	UT	CIRC	UT-25	393-07IUT-019	11/04/93

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 1 CODE CATEGORY: 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.: PRESSURIZER SPRAY LINE FROM LOOP 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.: COMBINED PRESSURIZER SPRAY LINE 1201-012-4"-A-FEO

03-024-450	B09.11	UT	CIRC	UT-25	393-07IUT-015	10/26/93
03-024-450	B09.11	PT	CIRC		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	10/26/93

EQUIPMENT I.D.: PRESSURIZER SAFETY VALVE PIPING 1201-032-6"-A-EEO

03-025-010	B09.11	PT	CIRC		393-07IPT-038	10/26/93
03-025-030	B09.11	PT	CIRC		393-07IPT-038	10/26/93
03-025-110	B09.11	PT	CIRC		393-07IPT-038	10/26/93

EQUIPMENT I.D.: PRESSURIZER SAFETY VALVE PIPING 1201-033-6"-A-EEO

03-025-130	B09.11	PT	CIRC		393-07IPT-038	10/26/93
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EQUIPMENT I.D.: PRESSURIZER AUXILIARY SPRAY LINE 1201-060-2"-A-FEO

03-026-820	B09.21	PT	CIRC		393-07IPT-059	11/04/93
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Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 1 CODE CATEGORY: B-J

EQUIPMENT I.D.: LETDOWN 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
03-028-085	B09.21	PT	CIRC		393-07IPT-005	10/16/93
03-028-095	B09.21	PT	CIRC		393-07IPT-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 I.D.: LOOP 1B DRAIN 1201-022-2"-A-FEO

03-029-010	B09.21	PT	CIRC		393-07IPT-039	10/26/93
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EQUIPMENT I.D.: HOT LEG LOOP 1 DRAIN 1201-018-2"-A-FEO

03-030-020	B09.21	PT	CIRC		393-07IPT-040	10/26/93
03-030-040	B09.21	PT	CIRC		393-07IPT-040	10/26/93

EQUIPMENT I.D.: LOOP 1A DRAIN 1201-019-2"-A-FEO

03-031-010	B09.21	PT	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 I.D.: CHARGING LINE TO LOOP 1A 1201-056-2"-A-FEO

03-032-070A	B09.21	PT	CIRC		393-07IPT-056	11/02/93
03-032-070C	B09.21	PT	CIRC		393-07IPT-056	11/02/93

EQUIPMENT I.D.: DRAIN FROM LOOP 2B 1201-031-2"-A-FEO

03-034-060	B09.21	PT	CIRC		393-07IPT-041	10/26/93
03-034-070	B09.21	PT	CIRC		393-07IPT-041	10/26/93

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

Unit 3 Cycle 7 Examination Summary

Class 1 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
03-039-410	B09.21	PT	CIRC		393-07IPT-042	10/26/93

Unit 3 Cycle 7 Examination Summary

Class 1 Integral Attachments

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 1 CODE CATEGORY: BK1

EQUIPMENT I.D.: PIPE SUPPORT

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

EQUIPMENT I.D.: REACTOR COOLANT PUMP 1B S3-1201-MP-003

03-035-013	B10.20	PT	FILLET		393-07IPT-062	11/08/93
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EQUIPMENT I.D.: REACTOR COOLANT PUMP 1A S3-1201-MP-001

03-036-013	B10.20	PT	FILLET		393-07IPT-067	11/08/93
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EQUIPMENT I.D.: REACTOR COOLANT PUMP 2B S3-1201-MP-002

03-037-013	B10.20	PT	FILLET		393-07IPT-068	11/09/93
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Unit 3 Cycle 7 Examination Summary

Class 1 Pump Casing Welds

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
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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

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
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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 LD: 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
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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
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EQUIPMENT I.D.: SHUTDOWN COOLING INSIDE CONTAINMENT

03-021-360A	B12.40	UT			393-07IUT-084	10/23/93
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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 I.D.: REACTOR VESSEL CLOSURE HEAD S3-1101-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	B14.10	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
03-002-019-90	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 CODE CATEGORY: B-O						
03-002-020-64	B14.10	PT	CIRC		393-07IPT-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

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 ID: 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 Attachments

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

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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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		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		393-07IUT-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

03-044-030	C05.21	MT	CIRC		393-07IMT-049	11/04/93
03-044-050	C05.21	MT	CIRC		393-07IMT-058	11/10/93
03-044-060	C05.21	UT	CIRC	UT-51	393-07IUT-062	12/04/93
03-044-070	C05.31	MT	CIRC		393-07IMT-024	10/28/93
03-044-080	C05.21	UT	CIRC	UT-51	393-07IUT-055	11/27/93
03-044-090	C05.21	UT	CIRC	UT-51	393-07IUT-055	11/27/93
03-044-100	C05.21	UT	CIRC	UT-51	393-07IUT-055	11/27/93

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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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	CIRC		393-07IMT-067	11/13/93
03-044-380	C05.21	MT	CIRC		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
03-045-240	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	CIRC	UT-51	393-07IUT-057	11/28/93

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

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

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
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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 2 CODE CATEGORY: 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	11/02/93
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: AUXILIARY FEEDWATER TO STEAM GENERATOR #1 1305-190-6"-C-GK1

03-046-560	C05.21	MT	CIRC		393-07IMT-009	10/22/93
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 I.D: AUXILIARY FEEDWATER TO STEAM GENERATOR #1 1305-223-6"-C-GK1

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

EQUIPMENT I.D: AUXILIARY FEEDWATER TO STEAM GENERATOR #2 1305-189-6"-C-GK1

03-047-010	C05.21	MT	CIRC		393-07IMT-054	11/09/93
03-047-010	C05.21	MT	CIRC		393-07IMT-036	11/06/93

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

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

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

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

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: 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.: CONTINUOUS BLOWDOWN FROM 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

EQUIPMENT I.D.: MAIN STEAM FROM S/G #1 INSIDE CONTAINMENT 1301-002-42"-C-HK1

03-050-010	C05.21	UT	CIRC	UT-56	393-07IUT-029	11/10/93
03-050-010	C05.21	MT	CIRC		393-07IMT-057	11/10/93
03-050-030A	C05.22	MT	LONG		393-07IMT-057	11/10/93
03-050-030A	C05.22	UT	LONG	UT-56	393-07IUT-029	11/10/93
03-050-030B	C05.22	UT	LONG	UT-56	393-07IUT-029	11/10/93
03-050-030B	C05.22	MT	LONG		393-07IMT-057	11/10/93
03-050-200A	C05.22	MT	LONG		393-07IMT-064	11/11/93
03-050-200B	C05.22	MT	LONG		393-07IMT-064	11/11/93
03-050-210	C05.21	MT	CIRC		393-07IMT-064	11/11/93
03-050-211	C05.22	MT	LONG		393-07IMT-064	11/11/93
03-050-251	C05.22	MT	LONG		393-07IMT-056	11/10/93
03-050-260	C05.21	MT	CIRC		393-07IMT-056	11/10/93
03-050-270A	C05.22	MT	LONG		393-07IMT-050	11/06/93
03-050-270B	C05.22	MT	LONG		393-07IMT-050	11/06/93
03-050-280	C05.21	MT	CIRC		393-07IMT-052	11/08/93
03-050-281	C05.22	MT	LONG		393-07IMT-050	11/06/93

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

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

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 2 CODE CATEGORY: C-F						
03-051-030B	C05.22	MT	LONG		393-07IMT-063	11/11/93

EQUIPMENT I.D.: MAIN STEAM FROM S/G #2 INSIDE CONTAINMENT 1301-001-40"-C-HK1

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		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 I.D.: 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
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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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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 2 CODE CATEGORY: 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		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 I.D: 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

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: 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 FROM S/G #1 OUTSIDE CONTAINMNT 1301-004-6"-C-HK1

03-052-500	C05.11	UT	CIRC	UT-68	393-07IUT-033	11/04/93
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EQUIPMENT I.D: MAIN STEAM FROM S/G #1 OUTSIDE CONTAINMNT 1301-002-40"-C-HK1

03-052-620	C05.21	MT	CIRC		393-07IMT-068	11/15/93
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EQUIPMENT I.D: MAIN STEAM FROM S/G #2 OUTSIDE CONTAINMNT 1301-001-40"-C-HK1

03-053-010	C05.21	MT	CIRC		393-07IMT-046	11/04/93
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03-053-010	C05.21	UT	CIRC	UT-55	393-07IUT-044	11/16/93
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EQUIPMENT I.D: MAIN STEAM FROM S/G #2 OUTSIDE CONTAINMNT 1301-595-8"-C-HK1

03-053-070	C05.11	MT	CIRC		393-07IMT-026	11/01/93
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03-053-080	C05.11	MT	CIRC		393-07IMT-026	11/01/93
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03-053-090	C05.11	MT	CIRC		393-07IMT-026	11/01/93
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03-053-110	C05.11	MT	CIRC		393-07IMT-026	11/01/93
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03-053-260	C05.11	MT	CIRC		393-07IMT-026	11/01/93
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EQUIPMENT I.D: MAIN STEAM FROM S/G #2 OUTSIDE CONTAINMNT 1301-363-34"-C-HK1

03-053-290	C05.21	MT	CIRC		393-07IMT-059	11/01/93
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03-053-300	C05.21	MT	CIRC		393-07IMT-059	11/01/93
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03-053-310A	C05.22	UT	LONG	UT-54	393-07IUT-046	11/16/93
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03-053-360	C05.21	MT	CIRC		393-07IMT-033	11/02/93
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03-053-360A	C05.22	UT	LONG	UT-54	393-07IUT-046	11/16/93
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03-053-360A	C05.22	MT	LONG		393-07IMT-042	11/03/93
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EQUIPMENT I.D: MAIN STEAM FROM S/G #2 OUTSIDE CONTAINMNT 1301-578-6"-C-HK1

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: C-F

03-053-370	C05.21	MT	CIRC		393-07IMT-066	11/13/93
03-053-380	C05.11	MT	CIRC		393-07IMT-066	11/13/93

EQUIPMENT I.D.: MAIN STEAM FROM S/G #2 OUTSIDE CONTAINMNT 1301-001-40"-C-HK1

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

EQUIPMENT I.D.:

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	11/15/93

EQUIPMENT I.D.: MAIN STEAM FROM S/G #2 OUTSIDE CONTAINMNT 1301-580-26"-C-HK1

03-053-550A	C05.22	UT	LONG	UT-53	393-07IUT-045	11/16/93
03-053-550A	C05.22	MT	LONG		393-07IMT-025	11/01/93
03-053-590	C05.21	MT	CIRC		393-07IMT-025	11/01/93

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

03-059-010	C02.01	PT	CIRC		393-07IPT-054	11/01/93
03-059-020	C02.01	PT	CIRC		393-07IPT-054	11/01/93
03-059-030A	C02.02	PT	LONG		393-07IPT-054	11/01/93
03-059-030B	C02.02	PT	LONG		393-07IPT-054	11/01/93
03-059-060	C02.01	PT	LONG		393-07IPT-054	11/01/93

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

03-059-070	C02.01	PT	CIRC		393-07IPT-054	11/01/93
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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

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

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
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EQUIPMENT I.D.:

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
03-059-200A	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

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 2 CODE CATEGORY: 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

EQUIPMENT I.D: SHUTDOWN COOLING OUTSIDE CONTAINMENT 1201-018-16"-C-KEO

03-061-050	C02.01	PT	CIRC		3PT-068-93	05/17/93
03-061-061	C02.02	PT	LONG		3PT-045-93	05/04/93
03-061-070	C02.01	PT	CIRC		3PT-045-93	05/04/93
03-061-090	C02.01	PT	CIRC		3PT-045-93	05/04/93
03-061-091	C02.02	PT	LONG		3PT-045-93	05/04/93

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

03-061-1020	C02.01	PT	CIRC		3PT-043-93	05/03/93
03-061-1030A	C02.02	PT	LONG		3PT-043-93	05/03/93
03-061-1030B	C02.02	PT	LONG		3PT-043-93	05/03/93
03-061-1040	C02.01	PT	CIRC		3PT-043-93	05/03/93
03-061-1041	C02.02	PT	LONG		3PT-056-93	05/11/93
03-061-1050	C02.01	PT	CIRC		3PT-043-93	05/03/93
03-061-1060A	C02.02	PT	LONG		3PT-043-93	05/03/93
03-061-1060B	C02.02	PT	LONG		3PT-043-93	05/03/93
03-061-1070	C02.01	PT	CIRC		3PT-043-93	05/03/93
03-061-1080	C02.01	PT	CIRC		3PT-043-93	05/03/93

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

03-061-1250A	C02.02	PT	LONG		3PT-044-93	05/03/93
03-061-1250B	C02.02	PT	LONG		3PT-044-93	05/03/93
03-061-1260	C02.01	PT	CIRC		3PT-044-93	05/03/93

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: C-F

03-061-1300	C02.01	PT	CIRC		3PT-084-93	05/20/93
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EQUIPMENT I.D.: SHUTDOWN COOLING OUTSIDE CONTAINMENT 1201-134-10"-C-KEO

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

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

03-061-1570B	C02.02	PT	LONG		3PT-085-93	05/21/93
03-061-1580	C02.01	PT	CIRC		3PT-085-93	05/21/93
03-061-1630	C02.01	PT	CIRC		3PT-085-93	05/21/93
03-061-1640A	C02.02	PT	LONG		3PT-085-93	05/21/93
03-061-1640B	C02.02	PT	LONG		3PT-085-93	05/21/93
03-061-1650	C02.01	PT	CIRC		3PT-085-93	05/21/93
03-061-1740	C02.01	PT	CIRC		3PT-066-93	05/14/93
03-061-1750B	C02.02	PT	LONG		3PT-066-93	05/14/93
03-061-1760	C02.01	PT	CIRC		3PT-066-93	05/14/93

EQUIPMENT I.D.: SHUTDOWN COOLING OUTSIDE CONTAINMENT 1201-017-14"-C-KEO

03-061-1816	C02.01	PT	CIRC		3PT-056-93	05/11/93
03-061-1820	C02.01	PT	CIRC		3PT-056-93	05/11/93
03-061-1830A	C02.02	PT	LONG		3PT-056-93	05/11/93
03-061-1830B	C02.02	PT	LONG		3PT-056-93	05/11/93
03-061-1840	C02.01	PT	CIRC		3PT-066-93	05/14/93

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

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: 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

EQUIPMENT I.D: SHUTDOWN COOLING OUTSIDE CONTAINMENT 1201-017-12"-C-KEO

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

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

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
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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 2 CODE CATEGORY: 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

EQUIPMENT I.D.: LPSI PUMP #1 SUCTION PIPING 1204-032-14"-C-KEO

03-062-020	C02.01	PT	CIRC		3PT-076-93	05/18/93
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.D.: LPSI PUMP #1 SUCTION PIPING 1204-032-16"-C-KEO

03-062-200	C02.01	PT	CIRC		3PT-058-93	05/11/93
03-062-203A	C02.02	PT	LONG		3PT-058-93	05/11/93
03-062-203B	C02.02	PT	LONG		3PT-058-93	05/11/93
03-062-206	C02.01	PT	CIRC		3PT-058-93	05/11/93
03-062-207	C02.02	PT	LONG		3PT-058-93	05/11/93
03-062-209	C02.01	PT	CIRC		3PT-058-93	05/11/93
03-062-225	C02.01	PT	CIRC		3PT-058-93	05/11/93
03-062-226	C02.02	PT	LONG		3PT-058-93	05/11/93

EQUIPMENT I.D.: LPSI PUMP #2 SUCTION PIPING 1204-033-14"-C-KEO

03-066-120	C02.01	PT	CIRC		3PT-026-93	04/22/93
03-066-130A	C02.02	PT	LONG		3PT-031-93	04/26/93
03-066-150	C02.01	PT	CIRC		3PT-026-93	04/22/93

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: C-F

EQUIPMENT I.D.: LPSI PUMP #2 SUCTION PIPING 1204-033-16"-C-KEO

03-066-200	C02.01	PT	CIRC		3PT-026-93	04/22/93
03-066-220	C02.01	PT	CIRC		3PT-026-93	04/22/93
03-066-250B	C02.02	PT	LONG		3PT-026-93	04/22/93

EQUIPMENT I.D.: LPSI PUMP #2 SUCTION PIPING 1201-050-14"-C-KEO

03-066-330	C02.01	PT	CIRC		3PT-026-93	04/22/93
03-066-360	C02.01	PT	CIRC		3PT-026-93	04/22/93
03-066-370A	C02.02	PT	LONG		3PT-026-93	04/22/93
03-066-370B	C02.02	PT	LONG		3PT-026-93	04/22/93
03-066-380	C02.01	PT	CIRC		3PT-026-93	04/22/93
03-066-390	C02.01	PT	CIRC		3PT-026-93	04/22/93

EQUIPMENT I.D.: LPSI PUMP #2 SUCTION PIPING 1201-050-16"-C-KEO

03-066-440	C02.01	PT	CIRC		3PT-031-93	04/26/93
03-066-450A	C02.02	PT	LONG		3PT-026-93	04/22/93
03-066-450B	C02.02	PT	LONG		3PT-026-93	04/22/93
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
03-066-560A	C02.02	PT	LONG		3PT-053-93	05/11/93
03-066-560B	C02.02	PT	LONG		3PT-053-93	05/11/93
03-066-580	C02.01	PT	CIRC		3PT-053-93	05/11/93
03-066-600	C02.01	PT	CIRC		3PT-053-93	05/11/93
03-066-710	C02.01	PT	CIRC		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	LONG		3PT-026-93	04/22/93
03-066-712	C02.01	PT	CIRC		3PT-026-93	04/22/93

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
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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

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 DISCHARGE LPSI PUMPS 1 & 2 1204-038-10"-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 I.D.: COMBINED DISCHARGE LPSI PUMPS 1 & 2 1204-038-14"-C-KEI

03-072-1000	C02.01	PT	CIRC		3PT-072-93	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.: COMBINED DISCHARGE LPSI PUMPS 1 & 2 1204-038-10"-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.: COMBINED DISCHARGE LPSI PUMPS 1 & 2 1204-038-14"-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

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
CODE CLASS: 2 CODE CATEGORY: C-F						
03-072-400B	C02.02	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.: COMBINED DISCHARGE LPSI PUMPS 1 & 2 1204-034-8"-C-KEI

03-072-520	C02.02	PT	LONG		3PT-060-93	05/12/93
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EQUIPMENT I.D.: COMBINED DISCHARGE LPSI PUMPS 1 & 2 1204-034-10"-C-KEI

03-072-540	C02.01	PT	CIRC		3PT-060-93	05/12/93
03-072-550A	C02.02	PT	LONG		3PT-060-93	05/12/93
03-072-550B	C02.02	PT	LONG		3PT-060-93	05/12/93
03-072-560	C02.01	PT	CIRC		3PT-060-93	05/12/93
03-072-570A	C02.02	PT	LONG		3PT-060-93	05/12/93
03-072-570B	C02.02	PT	LONG		3PT-060-93	05/12/93
03-072-580	C02.01	PT	CIRC		3PT-060-93	05/12/93
03-072-600	C02.01	PT	CIRC		3PT-060-93	05/12/93
03-072-630	C02.01	PT	CIRC		3PT-060-93	05/12/93
03-072-790	C02.01	PT	CIRC		3PT-080-93	05/18/93

EQUIPMENT I.D.: COMBINED DISCHARGE LPSI PUMPS 1 & 2 1204-038-14"-C-KEI

03-072-874	C02.01	PT	CIRC		3PT-074-93	05/18/93
03-072-876A	C02.02	PT	LONG		3PT-074-93	05/18/93
03-072-876B	C02.02	PT	LONG		3PT-074-93	05/18/93
03-072-878	C02.01	PT	CIRC		3PT-074-93	05/18/93
03-072-880	C02.02	PT	LONG		3PT-074-93	05/18/93
03-072-882	C02.01	PT	CIRC		3PT-074-93	05/18/93
03-072-882A	C02.02	PT	LONG		3PT-074-93	05/18/93
03-072-884	C02.01	PT	CIRC		3PT-074-93	05/18/93
03-072-970	C02.01	PT	CIRC		3PT-074-93	05/18/93

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: 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 1204-038-14"-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 1204-036-8"-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	C02.02	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 1204-038-14"-C-KE1

03-073-110A	C02.02	PT	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 1204-036-8"-C-KE1

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
03-073-1160B	C02.02	PT	LONG		3PT-047-93	05/07/93
03-073-1170	C02.01	PT	CIRC		3PT-047-93	05/07/93
03-073-1171	C02.02	PT	LONG		3PT-047-93	05/07/93
03-073-1180	C02.01	PT	CIRC		3PT-047-93	05/07/93
03-073-1190A	C02.02	PT	LONG		3PT-047-93	05/07/93

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: C-F

03-073-1190B	C02.02	PT	LONG		3PT-047-93	05/07/93
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EQUIPMENT I.D.: LPSI HEADER 1204-038-14"-C-KE1

03-073-120	C02.01	PT	CIRC		3PT-067-93	05/14/93
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EQUIPMENT I.D.: LPSI HEADER 1204-036-8"-C-KE1

03-073-1200	C02.01	PT	CIRC		3PT-047-93	05/07/93
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03-073-1510	C02.01	PT	CIRC		3PT-071-93	05/17/93
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03-073-1520B	C02.02	PT	LONG		3PT-071-93	05/17/93
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03-073-1530	C02.01	PT	CIRC		3PT-071-93	05/17/93
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03-073-1540A	C02.02	PT	LONG		3PT-071-93	05/17/93
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03-073-1540B	C02.02	PT	LONG		3PT-071-93	05/17/93
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03-073-1550	C02.01	PT	CIRC		3PT-071-93	05/17/93
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EQUIPMENT I.D.: LPSI HEADER 1204-041-8"-C-KE1

03-073-1560	C02.01	PT	CIRC		3PT-071-93	05/17/93
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EQUIPMENT I.D.: LPSI HEADER 1204-145-8"-C-KE1

03-073-1620	C02.01	PT	CIRC		3PT-051-93	05/10/93
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03-073-1620	C02.01	PT	CIRC		3PT-083-93	05/20/93
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03-073-1630	C02.01	PT	CIRC		3PT-051-93	05/10/93
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03-073-1661	C02.02	PT	LONG		3PT-078-93	05/19/93
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03-073-1670	C02.01	PT	CIRC		3PT-051-93	05/10/93
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03-073-1680A	C02.02	PT	LONG		3PT-051-93	05/10/93
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03-073-1680B	C02.02	PT	LONG		3PT-078-93	05/19/93
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03-073-1690	C02.01	PT	CIRC		3PT-078-93	05/19/93
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03-073-1780	C02.01	PT	CIRC		3PT-071-93	05/17/93
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EQUIPMENT I.D.: LPSI HEADER 1204-040-8"-C-KE1

03-073-1810	C02.01	PT	CIRC		3PT-083-93	05/20/93
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03-073-1830	C02.01	PT	CIRC		3PT-071-93	05/17/93
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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: 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 I.D.: 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

EQUIPMENT I.D.: LPSI HEADER 1204-038-14"-C-KE1

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
03-073-525	C02.02	PT	LONG		3PT-051-93	05/10/93

EQUIPMENT I.D.: LPSI HEADER 1204-038-8"-C-KE1

03-073-590	C02.01	PT	CIRC		3PT-051-93	05/10/93
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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: 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 I.D.: LPSI HEADER 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

EQUIPMENT I.D.: CS PUMP #1 TO SHUTDOWN COOLING HX #1 1206-001-8"-C-KEO

03-074-030	C02.01	PT	CIRC		3PT-054-93	05/11/93
03-074-040A	C02.02	PT	LONG		3PT-054-93	05/11/93
03-074-040B	C02.02	PT	LONG		3PT-054-93	05/11/93
03-074-050	C02.01	PT	CIRC		3PT-054-93	05/11/93
03-074-060	C02.01	PT	CIRC		3PT-054-93	05/11/93
03-074-070A	C02.02	PT	LONG		3PT-054-93	05/11/93
03-074-070B	C02.02	PT	LONG		3PT-054-93	05/11/93
03-074-080	C02.01	PT	CIRC		3PT-054-93	05/11/93
03-074-250	C02.01	PT	CIRC		3PT-065-93	05/14/93

EQUIPMENT I.D.: CS PUMP #1 TO SHUTDOWN COOLING HX #1 1206-033-12"-C-KEO

03-074-260	C02.01	PT	CIRC		3PT-065-93	05/14/93
03-074-260A	C02.02	PT	LONG		3PT-073-93	05/17/93

EQUIPMENT I.D.: SC PUMP #1 TO SHUTDOWN COOLING HX #1 1206-033-12"-C-KEO

03-074-270	C02.01	PT	CIRC		3PT-073-93	05/17/93
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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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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	PT	LONG		3PT-065-93	05/14/93
03-074-350	C02.01	PT	CIRC		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 1206-002-12"-C-KEI

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		3PT-030-93	04/26/93
03-075-300	C02.01	PT	CIRC		3PT-030-93	04/26/93
03-075-310A	C02.02	PT	LONG		3PT-030-93	04/26/93
03-075-310B	C02.02	PT	LONG		3PT-030-93	04/26/93
03-075-320	C02.01	PT	CIRC		3PT-030-93	04/26/93
03-075-360	C02.01	PT	CIRC		3PT-079-93	05/20/93

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

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

Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: C-F

03-076-840	C02.01	PT	CIRC		3PT-023-93	02/21/93
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EQUIPMENT I.D.: COMBINED SDCHX DISCHARGE TO LPSI HEADER 1206-027-14"-C-KEI

03-076-870	C02.01	PT	CIRC		3PT-038-93	04/28/93
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EQUIPMENT I.D.: SHUTDOWN COOLING HEAT EXCHANGR #1 OUTLET 1206-003-12"-C-KEI

03-077-030	C02.01	PT	CIRC		3PT-036-93	04/27/93
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03-077-040A	C02.02	PT	LONG		3PT-036-93	04/27/93
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03-077-040B	C02.02	PT	LONG		3PT-036-93	04/27/93
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03-077-050	C02.01	PT	CIRC		3PT-036-93	04/27/93
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03-077-060	C02.01	PT	CIRC		3PT-036-93	04/27/93
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03-077-070A	C02.02	PT	LONG		3PT-036-93	04/27/93
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03-077-070B	C02.02	PT	LONG		3PT-036-93	04/27/93
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03-077-080	C02.01	PT	CIRC		3PT-036-93	04/27/93
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EQUIPMENT I.D.: SHUTDOWN COOLING HEAT EXCHANGR #1 OUTLET 1206-003-8"-C-KEI

03-077-230	C02.01	PT	CIRC		3PT-039-93	04/28/93
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03-077-240A	C02.02	PT	LONG		3PT-039-93	04/28/93
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EQUIPMENT I.D.: SHUTDOWN COLLING HEAT EXCHANGR #1 OUTLET 1206-027-12"-C-KEI

03-077-330	C02.01	PT	CIRC		3PT-039-93	04/28/93
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03-077-350	C02.01	PT	CIRC		3PT-039-93	04/28/93
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03-077-351	C02.02	PT	LONG		3PT-039-93	04/28/93
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03-077-360	C02.01	PT	CIRC		3PT-039-93	04/28/93
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03-077-370A	C02.02	PT	LONG		3PT-039-93	04/28/93
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03-077-370B	C02.02	PT	LONG		3PT-039-93	04/28/93
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03-077-380	C02.01	PT	CIRC		3PT-039-93	04/28/93
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EQUIPMENT I.D.: SHUTDOWN COOLING HEAT EXCHANGER #2 OUTLET 1206-004-12"-C-KEI

03-078-030	C02.01	PT	CIRC		3PT-037-93	04/27/93
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03-078-040A	C02.02	PT	LONG		3PT-037-93	04/27/93
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Unit 3 Cycle 7 Examination Summary

Class 2 Pipe Welds

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 2 CODE CATEGORY: C-F

03-078-040B	C02.02	PT	LONG		3PT-037-93	04/27/93
03-078-050	C02.01	PT	CIRC		3PT-037-93	04/27/93
03-078-060	C02.01	PT	CIRC		3PT-040-93	04/28/93
03-078-070A	C02.02	PT	LONG		3PT-040-93	04/28/93
03-078-070B	C02.02	PT	LONG		3PT-040-93	04/28/93
03-078-080	C02.01	PT	CIRC		3PT-040-93	04/28/93

EQUIPMENT I.D: SHUTDOWN COOLING HEAT EXCHANGER #2 OUTLET 1206-028-12"-C-KEI

03-078-220	C02.01	PT	CIRC		3PT-040-93	04/28/93
03-078-221A	C02.02	PT	LONG		3PT-040-93	04/28/93
03-078-221B	C02.02	PT	LONG		3PT-040-93	04/28/93
03-078-254	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

EQUIPMENT I.D: SHUTDOWN COOLING HEAT EXCHANGER #2 OUTLET 1206-004-8"-C-KEI

03-078-330	C02.01	PT	CIRC		3PT-029-93	04/26/93
03-078-340A	C02.02	PT	LONG		3PT-029-93	04/26/93
03-078-340B	C02.02	PT	LONG		3PT-029-93	04/26/93
03-078-350	C02.01	PT	CIRC		3PT-029-93	04/26/93

EQUIPMENT I.D: REGENERATIVE HEAT EXCHANGER S3-1208-ME-063

03-082-030	C05.21	PT	CIRC		393-07IPT-020	10/21/93
03-082-040	C05.21	PT	CIRC		393-07IPT-021	10/21/93

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
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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
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03-044-390B	C06.20	MT			393-07IMT-067	11/13/93
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EQUIPMENT I.D: MAIN STEAM FROM S/G #1 OUTSIDE CONTAINMNT

03-052-250	C06.20	MT			393-07IMT-068	11/15/93
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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 LD: 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
03-076-925	C02.06	VT-3			393-07IVT-085	05/20/93

Unit 3 Cycle 7 Examination Summary

Linear Type Supports

ISI Number	Item No.	Exam Method	Weld Type	Cal. Block	Report No.	Exam Date
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CODE CLASS: 1 CODE CATEGORY: F-B

EQUIPMENT ID: PIPE 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-010	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
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CODE CLASS: 1 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			393-07IVT-006	10/16/93
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	VT-3			393-07IVT-058	11/04/93
03-023-240	F-3	VT-3			393-07IVT-051	11/04/93
03-023-240	F-4	VT-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 S3-1301-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 I.D.: PIPE SUPPORT

03-044-410	F-4	VT-4	393-07IVT-032	10/27/93
03-044-410	F-4	VT-3	393-07IVT-032	10/27/93
03-044-450	F-4	VT-4	393-07IVT-048	10/27/93
03-044-450	F-3	VT-3	393-07IVT-048	10/27/93
03-044-460	F-3	VT-3	393-07IVT-033	10/27/93
03-044-460	F-4	VT-4	393-07IVT-033	10/27/93
03-046-610	F-3	VT-3	393-07IVT-020	10/23/93
03-046-610	F-4	VT-4	393-07IVT-020	10/23/93
03-046-630	F-3	VT-3	393-07IVT-011	10/22/93
03-046-640	F-4	VT-3	393-07IVT-073	11/13/93
03-046-640	F-4	VT-4	393-07IVT-073	11/13/93
03-046-760	F-4	VT-3	393-07IVT-072	11/13/93
03-046-760	F-4	VT-4	393-07IVT-072	11/13/93
03-047-480	F-4	VT-4	393-07IVT-034	10/28/93
03-047-480	F-3	VT-3	393-07IVT-034	10/28/93
03-049-490	F-3	VT-3	393-07IVT-039	10/30/93
03-049-490	F-4	VT-4	393-07IVT-039	10/30/93
03-050-310	F-4	VT-4	393-07IVT-053	11/06/93
03-050-310	F-3	VT-3	393-07IVT-053	11/06/93
03-050-320	F-3	VT-3	393-07IVT-052	11/06/93
03-050-320	F-4	VT-4	393-07IVT-052	11/06/93

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
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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	RG1.14	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	RG1.14	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

<u>SYSTEM</u>	<u>PLANT LOCATION</u>	<u>TEST PRESSURE</u>	<u>TEST TEMPERATURE</u>	<u>EXAM DATE</u>
A. SYSTEM LEAKAGE TESTS:				
REACTOR COOLANT 1201	RCS PIPING INSIDE CONTAINMENT	2254 psig	478°F	12/07/93
B. SYSTEM FUNCTIONAL TESTS:				
LOW PRESSURE SAFETY INJECTION 1204	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	PUMP NO. 1/MP012	247 psig	AMB	12/4/93
CONTAINMENT SPRAY 1206	PUMP NO. 2/MP013	247 psig	AMB	10/9/93
C. SYSTEM INSERVICE TESTS:				
CHEMICAL AND VOLUME CONTROL 1208	INSIDE CONTAINMENT	2250 psig - RCS ²	≥545 °F - RCS	10/10/93
	OUTSIDE CONTAINMENT	2250 psig - RCS	≥545 °F - RCS	10/8/93
MAIN STEAM 1301	INSIDE CONTAINMENT STEAM GEN. ME088/ME089	920 psig	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 psig	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				

¹ Ambient or Room Temperature

² Reactor Coolant System

ATTACHMENT 11.0

STEAM GENERATOR EXAMINATIONS

Southern California Edison Company

23 PARKER STREET
IRVINE, CALIFORNIA 92718

December 2, 1993

WALTER C. MARSH
MANAGER OF NUCLEAR REGULATORY AFFAIRS

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.

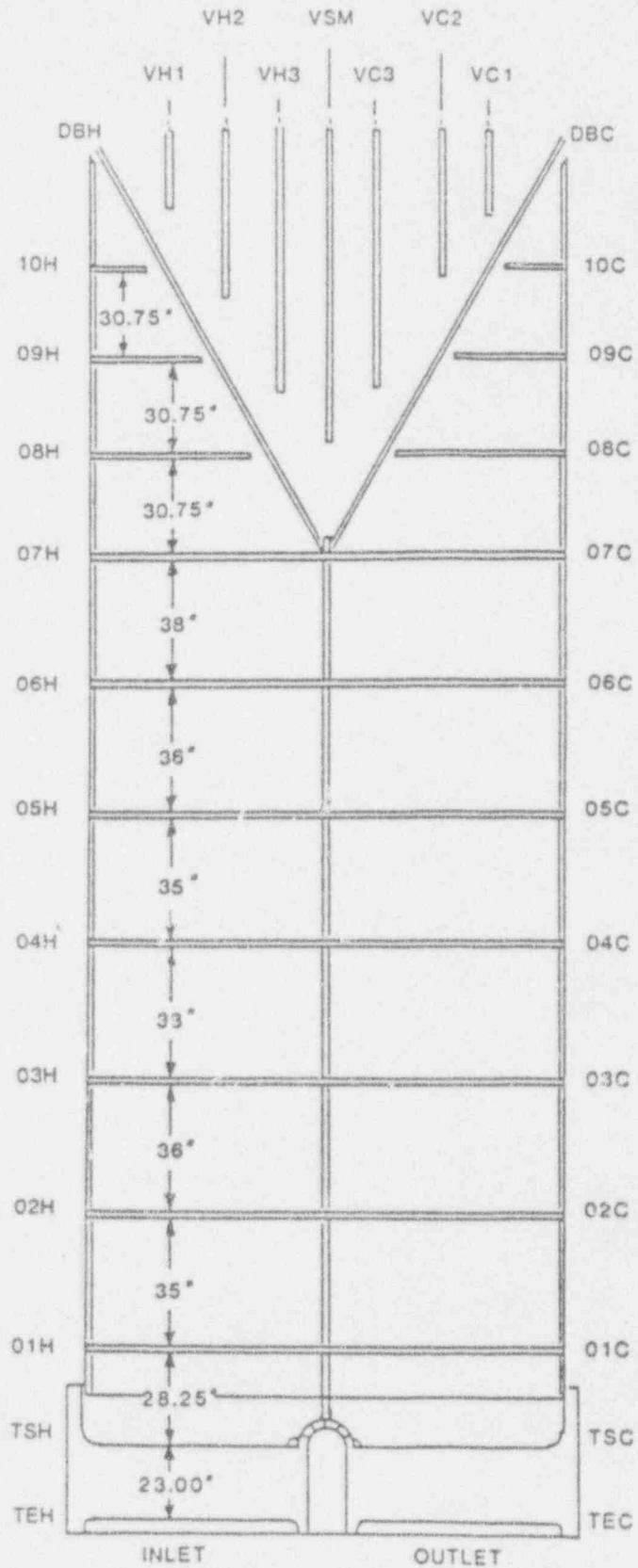
Sincerely,


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)

CE MODEL 3410 TUBE SUPPORT DRAWING



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

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

PAGE: 1 OF 4
DATE: 11/29/93
TIME: 14:03:20

ROW	COL	HEAT#	LEG	EXAM EXTENT		EXP	CAL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
43	5		C	TEC-TEH	TEC-TEH		00009	580UL	04C- 0.09	0.52	0	<20	P 2	
106	28		C	TEC-TSH	TEC-TSH		00015	580UL	VC3- 0.82	8.27	0	54	P 2	
			C	TEC-TSH	TEC-TSH		00015	580UL	VC3+ 0.70	1.15	0	27	P 2	
102	30		C	TEC-TEH	TEC-TEH		00016	580UL	08C- 0.80	0.77	0	21	P 2	
104	30		C	TEC-TEH	TEC-TEH		00016	580UL	VH2- 0.75	0.97	0	25	P 2	
			C	TEC-TEH	TEC-TEH		00016	580UL	VH2+ 0.78	1.09	0	27	P 2	
			C	TEC-TEH	TEC-TEH		00016	580UL	VC2+ 0.89	0.42	0	<20	P 2	
107	31		C	TEC-TEH	TEC-TEH		00016	580UL	VH2- 0.88	0.47	0	<20	P 2	
76	34		C	TEC-TEH	TEC-TEH		00020	580UL	VH3+ 0.66	0.56	0	<20	P 2	
114	34		C	TEC-TEH	TEC-TEH		00020	580UL	DBC+ 1.68	0.58	0	<20	P 2	
112	38		C	TEC-TEH	TEC-TEH		00021	580UL	VC2- 0.29	0.60	0	<20	P 2	
112	40		C	TEC-TEH	TEC-TEH		00022	580UL	07C+ 19.46	0.63	140	27	1	
27	45		C	TEC-TEH	TEC-TEH		00025	580UL	02H+ 23.82	0.93	153	<20	1	
86	46		C	TEC-TEH	TEC-TEH		00030	580UL	08H+ 2.53	0.90	146	24	1	
71	47		C	TEC-TEH	TEC-TEH		00025	580UL	VSM- 1.06	0.97	0	25	P 2	
76	48		C	TEC-TEH	TEC-TEH		00030	580UL	VSM- 0.99	0.56	0	<20	P 2	
			C	TEC-TEH	TEC-TEH		00030	580UL	VSM+ 0.99	0.87	0	22	P 2	
94	48		C	TEC-TEH	TEC-TEH		00032	580UL	VH2+ 0.85	0.93	0	26	P 2	
112	48		C	TEC-TEH	TEC-TEH		00030	580UL	VSM+ 0.84	2.98	0	42	P 2	
			C	TEC-TEH	TEC-TEH		00030	580UL	VC3- 0.68	1.34	0	30	P 2	
			C	TEC-TEH	TEC-TEH		00030	580UL	VC2- 0.74	0.82	0	22	P 2	
113	49		C	TEC-TEH	TEC-TEH		00030	580UL	DBH+ 1.31	0.41	0	<20	P 2	
131	51		C	TEC-TEH	TEC-TEH	4	00031	580UL	DBC+ 1.43	0.63	0	22	P 2	
134	52		C	TEC-TEH	TEC-TEH		00031	580UL	DBC+ 1.55	1.51	0	36	P 2	
112	58		C	TEC-TEH	TEC-TEH		00032	580UL	VH2+ 1.21	0.68	0	21	P 2	
			C	TEC-TEH	TEC-TEH		00032	580UL	VH3+ 1.21	0.54	0	<20	P 2	
107	59		C	TEC-TEH	TEC-TEH		00032	580UL	VH2+ 0.88	0.91	0	25	P 2	
			C	TEC-TEH	TEC-TEH		00032	580UL	VH3- 0.78	1.17	0	29	P 2	
			C	TEC-TEH	TEC-TEH		00032	580UL	VC2+ 0.94	6.15	0	51	P 2	
139	61		C	TEC-TEH	TEC-TEH	4	00033	580UL	DBH- 1.36	2.39	0	41	P 2	
140	62		C	TEC-TEH	TEC-TEH	4	00033	580UL	09H+ 0.63	0.50	0	<20	P 2	
81	65		C	TEC-TEH	TEC-TEH		00040	580UL	VSM+ 0.91	0.94	0	23	P 2	
141	65		C	TEC-TEH	TEC-TEH		00033	580UL	DBC+ 1.68	0.40	0	<20	P 2	
118	66		C	TEC-TEH	TEC-TEH		00033	580UL	06H+ 3.33	0.95	154	<20	1	
142	66		C	TEC-TEH	TEC-TEH		00033	580UL	DBC+ 1.41	0.48	0	<20	P 2	
82	68		C	TEC-TEH	TEC-TEH		00035	580UL	VH3- 0.88	0.58	0	<20	P 2	
110	68		C	TEC-TEH	TEC-TEH		00035	580UL	VH2- 0.89	0.73	0	<20	P 2	
130	68		C	TEC-TEH	TEC-TEH		00035	580UL	VH1+ 0.92	0.96	0	23	P 2	
142	68		C	TEC-TEH	TEC-TEH		00035	580UL	DBH+ 2.32	1.94	0	35	P 2	
			C	TEC-TEH	TEC-TEH		00035	580UL	DBC+ 1.59	1.04	0	25	P 2	
43	69		C	TEC-TEH	TEC-TEH		00029	580UL	VSM- 0.96	0.69	0	<20	P 2	
81	69		C	TEC-TEH	TEC-TEH		00035	580UL	VC3+ 0.73	0.90	0	22	P 2	
143	69		C	TEC-TEH	TEC-TEH		00035	580UL	DBC+ 1.43	2.24	0	38	P 2	
104	70		C	TEC-TEH	TEC-TEH		00036	580UL	VC3- 0.98	0.64	0	<20	P 2	
77	71		C	TEC-TEH	TEC-TEH		00036	580UL	VH3+ 0.67	0.99	0	25	P 2	

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

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

PAGE: 2 OF 4
 DATE: 11/29/93
 TIME: 14:03:20

ROW	COL	HEAT#	LEG	EXAM EXTENT		EXP	CAL	PROBE	LOCATION	CURRENT					
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH	
44	72		C	TEC-TEH	TEC-TEH		00030	580UL	VSM-	0.91	0.54		0	<20	P 2
144	72		C	TEC-TEH	TEC-TEH	4	00036	580UL	VH2-	1.06	0.46		0	<20	P 2
37	73		C	TEC-TEH	TEC-TEH		00030	580UL	VSM+	0.88	1.21		0	28	P 2
39	73		C	TEC-TEH	TEC-TEH		00030	580UL	VSM+	0.91	0.77		0	21	P 2
81	73		C	TEC-TEH	TEC-TEH		00036	580UL	VSM-	0.86	0.52		0	<20	P 1
38	74		C	TEC-TEH	TEC-TEH		00030	580UL	DBH-	1.71	0.49		0	<20	P 2
138	74		C	TEC-TEH	TEC-TEH	4	00036	580UL	VH1-	1.04	0.82		0	22	P 2
39	75		C	TEC-TEH	TEC-TEH		00030	580UL	DBH-	1.94	0.36		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00030	580UL	VSM+	0.96	0.51		0	<20	P 2
41	75		C	TEC-TEH	TEC-TEH		00030	580UL	DBH-	1.71	0.38		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00030	580UL	VSM+	1.01	0.45		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00030	580UL	DBC+	1.55	1.19		0	28	P 2
75	75		C	TEC-TEH	TEC-TEH		00037	580UL	VSM-	1.03	0.49		0	20	P 2
42	76		C	TEC-TEH	TEC-TEH		00030	580UL	DBH-	1.61	0.29		0	<20	P 2
142	76		C	TEC-TEH	TEC-TEH	4	00037	580UL	VH1-	0.84	0.97		0	30	P 2
146	76		C	TEC-TEH	TEC-TEH	4	00037	580UL	DBH+	1.23	0.48		0	20	P 2
50	78		C	TEC-TEH	TEC-TEH		00030	580UL	DBC-	1.46	0.74		0	20	P 2
146	78		C	TEC-TEH	TEC-TEH	4	00037	580UL	DBC+	1.33	0.89		0	29	P 2
47	79		C	TEC-TEH	TEC-TEH		00030	580UL	VSM+	0.86	0.72		0	<20	P 2
145	79		C	TEC-TEH	TEC-TEH	4	00037	580UL	DBC+	1.48	1.02		0	31	P 2
104	80		C	TEC-TEH	TEC-TEH		00038	580UL	07H+	24.65	0.87		142	27	1
60	82		C	TEC-TEH	TEC-TEH		00077	580UL	DBH-	2.16	0.42		0	<20	P 2
146	82		C	TEC-TEH	TEC-TEH		00001	580UL	DBC+	1.55	0.88		0	24	P 2
114	84		C	TEC-TEH	TEC-TEH		00038	580UL	DBH+	1.94	0.77		0	20	P 2
51	85		C	TEC-TEH	TEC-TEH		00082	580UL	DBC-	1.50	0.22		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00082	580UL	03C+	18.63	0.86		161	<20	1
143	85		C	TEC-TEH	TEC-TEH		00001	580UL	TSC+	1.42	23.32		74	82	1
144	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
47	87		C	TEC-TEH	TEC-TEH		00078	580UL	VSM-	0.61	0.37		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00078	580UL	DBC+	1.95	0.58		0	<20	P 2
49	87		C	TEC-TEH	TEC-TEH		00078	580UL	DBH-	1.73	0.40		0	<20	P 2
145	87		C	TEC-TEH	TEC-TEH		00001	580UL	TSC+	2.12	2.72		126	44	1
			C	TEC-TEH	TEC-TEH		00001	580UL	TSC+	0.67	0.68		156	<20	1
50	88		C	TEC-TEH	TEC-TEH		00078	580UL	DBC-	2.25	0.37		0	<20	P 2
138	88		C	TEC-TEH	TEC-TEH	4	00057	580UL	VH1-	1.19	0.54		0	<20	P 2
144	88		C	TEC-TEH	TEC-TEH		00001	580UL	TSC+	1.51	2.00		130	40	1
146	88		C	TEC-TEH	TEC-TEH		00001	580UL	TSC+	1.42	0.35		158	<20	1
77	89		C	TEC-TEH	TEC-TEH		00057	580UL	DBH+	1.82	2.58		0	40	P 2
145	89		C	TEC-TEH	TEC-TEH		00057	580UL	TSC+	1.24	1.62		153	<20	1
			C	TEC-TEH	TEC-TEH		00002	580UL	TSC+	1.21	1.75		166	<20	1
147	89		C	TEC-TEH	TEC-TEH		00002	580UL	DBC-	1.38	0.96		0	26	P 2
			C	TEC-TEH	TEC-TEH		00057	580UL	DBC-	1.22	1.10		0	26	P 2
138	90		C	TEC-TEH	TEC-TEH		00057	580UL	VH1-	0.67	1.28		0	28	P 2
			C	TEC-TEH	TEC-TEH		00057	580UL	01C+	12.71	2.24		142	22	1

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

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

PAGE: 3 OF 4
DATE: 11/29/93
TIME: 14:03:20

ROW	COL	HEAT#	LEG	EXAM EXTENT		EXP	CAL	PROBE	LOCATION	CURRENT					
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH	
146	92		C	TEC-TEH	TEC-TEH	4	00057	580UL	10C+	0.86	0.23		0	<20	P 2
51	93		C	TEC-TEH	TEC-TEH		00077	580UL	DBH-	1.67	0.45		0	<20	P 2
75	93		C	TEC-TEH	TEC-TEH		00057	580UL	VSM+	1.05	0.44		0	<20	P 2
77	93		C	TEC-TEH	TEC-TEH		00057	580UL	VSM+	0.95	0.94		0	23	P 2
79	93		C	TEC-TEH	TEC-TEH		00057	580UL	VH3+	0.86	0.56		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00057	580UL	VSM+	0.95	0.98		0	24	P 2
			C	TEC-TEH	TEC-TEH		00057	580UL	VC3+	0.91	0.81		0	21	P 2
136	94		C	TEC-TEH	TEC-TEH	4	00058	580UL	VH1-	0.91	1.17		0	25	P 2
144	96		C	TEC-TEH	TEC-TEH	4	00058	580UL	VH1+	0.81	0.62		0	<20	P 2
82	98		C	TEC-TEH	TEC-TEH		00058	580UL	VH3-	0.77	0.70		0	<20	P 2
107	99		C	TEC-TEH	TEC-TEH		00059	580UL	VH2-	0.60	0.81		0	21	P 2
			C	TEC-TEH	TEC-TEH		00059	580UL	VC3+	0.72	1.49		0	30	P 2
43	101		C	TEC-TEH	TEC-TEH		00050	580UL	VSM-	0.76	0.51		0	<20	P 2
79	101		C	TEC-TEH	TEC-TEH		00059	580UL	VH3-	0.82	0.81		0	20	P 2
			C	TEC-TEH	TEC-TEH		00059	580UL	VH3+	0.79	1.00		0	23	P 2
135	103		C	TEC-TEH	TEC-TEH	4	00059	580UL	VH1+	0.86	0.49		0	<20	P 2
			C	TEC-TEH	TEC-TEH	4	00059	580UL	VH2-	0.77	0.47		0	<20	P 2
112	104		C	TEC-TEH	TEC-TEH		00060	580UL	VH2-	0.99	1.46		0	31	P 2
			C	TEC-TEH	TEC-TEH		00060	580UL	VH2-	0.20	1.47		0	32	P 2
			C	TEC-TEH	TEC-TEH		00060	580UL	VH2+	1.02	1.50		0	32	P 2
			C	TEC-TEH	TEC-TEH		00060	580UL	VSM+	0.85	0.81		0	22	P 2
134	104		C	TEC-TEH	TEC-TEH	4	00067	580UL	VH1-	0.90	0.67		0	<20	P 2
			C	TEC-TEH	TEC-TEH	4	00060	580UL	VH1-	0.71	0.37		0	<20	P 2
142	104		C	TEC-TEH	TEC-TEH	4	00067	580UL	DBH+	1.99	0.52		0	<20	P 2
77	105		C	TEC-TEH	TEC-TEH		00067	580UL	VC3+	26.58	0.99	157		<20	1
79	105		C	TEC-TEH	TEC-TEH		00061	580UL	VH3+	0.57	1.73		0	34	P 2
105	105		C	TEC-TEH	TEC-TEH		00061	580UL	VH2-	0.73	0.51		0	<20	P 2
38	106		C	TEC-TEH	TEC-TEH		00051	580UL	VSM+	0.85	0.35		0	<20	P 2
144	106		C	TEC-TEH	TEC-TEH	4	00067	580UL	DBC+	2.17	1.05		0	24	P 2
111	107		C	TEC-TEH	TEC-TEH		00076	580UL	VH2-	0.78	0.79		0	<20	P 2
136	108		C	TEC-TEH	TEC-TEH	4	00062	580UL	VH1-	0.91	0.27		0	<20	P 2
75	109		C	TEC-TEH	TEC-TEH		00062	580UL	VSM-	0.97	0.72		0	20	P 2
			C	TEC-TEH	TEC-TEH		00062	580UL	VSM+	0.81	0.52		0	<20	P 2
95	109		C	TEC-TEH	TEC-TEH		00062	580UL	VH2+	0.76	0.69		0	<20	P 2
109	109		C	TEC-TEH	TEC-TEH		00062	580UL	VH2-	0.80	0.39		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00062	580UL	VC2-	0.74	0.42		0	<20	P 2
143	109		C	TEC-TEH	TEC-TEH	4	00062	580UL	VH2-	0.89	0.63		0	<20	P 2
116	110		C	TEC-TEH	TEC-TEH		00062	580UL	VC3+	0.65	0.41		0	<20	P 2
81	113		C	TEC-TEH	TEC-TEH		00067	580UL	VSM-	1.06	1.14		0	26	P 2
113	119		C	TEC-TEH	TEC-TEH		00064	580UL	VH2+	0.79	0.96		0	21	P 2
136	120		C	TEC-TEH	TEC-TEH		00064	580UL	DBH+	2.23	0.62		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00064	580UL	VH3-	0.87	1.76		0	31	P 2
133	121		C	TEC-TEH	TEC-TEH	4	00064	580UL	TSC+	11.75	2.51		87	74	1
75	123		C	TEC-TEH	TEC-TEH		00065	580UL	DBH+	22.19	0.82		161	<20	1
78	124		C	TEC-TEH	TEC-TEH		00065	580UL	VH3+	1.23	0.43		0	<20	P 2

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

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

PAGE: 4 OF 4
DATE: 11/29/93
TIME: 14:03:20

ROW	COL	HEAT#	LEG	EXAM EXTENT		EXP	CAL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
78	124		C	TEC-TEH	TEC-TEH		00065	580UL	VC3+ 0.87	0.44		0	<20	P 2
81	125		C	TEC-TEH	TEC-TEH		00065	580UL	VH3+ 0.90	0.85		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00065	580UL	VC3+ 0.96	0.65		0	<20	P 2
80	126		C	TEC-TEH	TEC-TEH		00065	580UL	VH3+ 0.63	1.30		0	26	P 2
			C	TEC-TEH	TEC-TEH		00065	580UL	VC3+ 0.69	0.60		0	<20	P 2
76	128		C	TEC-TEH	TEC-TEH		00065	580UL	VC3- 0.90	1.38		0	27	P 2
82	128		C	TEC-TEH	TEC-TEH		00065	580UL	VH3- 0.87	0.80		0	<20	P 2
3	129		C	TEC-07H	TEC-07H		00068	560SF	03C+ 21.80	1.11	148	22		1
41	129		C	TEC-TEH	TEC-TEH		00055	580UL	DBH+ 1.36	0.57		0	<20	P 2
83	129		C	TEC-TEH	TEC-TEH		00065	580UL	VH2+ 0.62	0.73		0	<20	P 2
127	129		C	TEC-TEH	TEC-TEH		00065	580UL	TSC+ 7.33	2.10	148	23		1
108	130		C	TEC-TEH	TEC-TEH		00066	580UL	VH3- 0.89	0.86		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00066	580UL	VC3- 0.72	0.76		0	<20	P 2
112	132		C	TEC-TEH	TEC-TEH		00066	580UL	VC3+ 0.58	0.55		0	<20	P 2
106	134		C	TEC-TEH	TEC-TEH		00066	580UL	VH2- 0.99	0.46		0	<20	P 2
72	140		C	TEC-TEH	TEC-TEH		00045	580UL	06H+ 15.56	0.66	155	<20		1
80	140		C	TEC-TEH	TEC-TSH		00045	580UL	VC3- 1.09	0.47		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00066	580UL	VC3- 1.06	0.58		0	<20	P 2
			C	TEC-TEH	TEC-TSH		00045	580UL	VC3+ 0.59	0.36		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00066	580UL	VC3+ 0.70	0.49		0	<20	P 2
106	144		C	TEC-TEH	TEC-TEH		00046	580UL	VH2- 1.01	0.90		0	26	P 2
			C	TEC-TEH	TEC-TEH		00046	580UL	VH3+ 0.84	0.58		0	<20	P 2
94	146		C	TEC-TEH	TEC-TEH	4	00047	580UL	VH3- 0.84	0.45		0	<20	P 2
72	148		C	TEC-TEH	TEC-TEH		00047	580UL	VC3+ 0.93	0.30		0	<20	P 2
89	151		C	TEC-TEH	TEC-TEH	4	00047	580UL	VC3- 0.79	0.55		0	<20	P 2
77	157		C	TEC-TEH	TEC-TEH	4	00048	580UL	08C- 1.29	0.35		0	<20	P 2
74	160		C	TEC-TEH	TEC-TEH		00044	580UL	08C- 0.37	0.87		0	25	P 2
79	161		C	TEC-TEH	TEC-TEH	4	00044	580UL	DBH+ 1.85	0.29		0	<20	P 2
10	166		C	TEC-TEH	TEC-TEH	4	00049	580UL	01H+ 0.23	2.90		0	43	P 2
17	169		C	TEC-TEH	TEC-TEH		00083	580UL	DBH+ 2.36	4.45		9	23	1
			C	TEC-TEH	TEC-TEH		00081	580UL	DBH+ 2.89	3.57		10	25	1

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
ELECTION VARIABLES: Percent

PAGE: 1 OF 2
DATE: 12/17/93
TIME: 10:29:50

ROW	COL	HEAT#	LEG	EXAM EXTENT		EXP	CAL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
30	4		C	TEC-TEH	TEC-TEH		00006	58OUL	03C+ 34.28	0.91		146	25	1
42	6		C	TEC-TEH	TEC-TEH	4	00006	58OUL	VSM+ 0.91	0.60		0	<20	P 2
61	9		C	TEC-TEH	TEC-TEH		00007	58OUL	VSM+ 1.46	0.51		154	<20	1
50	10		C	TEC-TEH	TEC-TEH		00007	58OUL	VSM- 0.64	0.73		0	24	P 2
51	11		C	TEC-TEH	TEC-TEH	4	00007	58OUL	03C- 1.14	0.26		0	<20	P 2
101	43		C	TEC-TEH	TEC-TEH		00018	58OUL	VSM+ 0.99	0.22		0	<20	P 2
113	53		C	TEC-TEH	TEC-TEH		00026	58OUL	06C+ 25.12	0.56		160	<20	:
77	59		C	TEC-TEH	TEC-TEH		00027	58OUL	VSM- 0.80	0.68		0	20	P :
			C	TEC-TEH	TEC-TEH		00027	58OUL	VC3+ 0.74	0.53		0	<20	P 2
141	63		C	TEC-TEH	TEC-TEH		00027	58OUL	DBH+ 2.22	0.40		0	<20	P 2
50	64		C	TEC-08H	TEC-TEH		00022	58OUL	VSM- 0.15	0.89		0	26	P 2
129	65		C	TEC-TEH	TEC-TEH		00028	58OUL	VH2- 1.50	0.41		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00028	58OUL	VC3+ 8.07	1.61		157	<20	1
100	78		C	TEC-TEH	TEC-TEH		00031	58OUL	08H- 0.54	0.76		0	25	P 2
108	80		C	TEC-TEH	TEC-TEH		00031	58OUL	07H+ 23.34	0.75		149	22	1
56	86		C	TEC-TEH	TEC-TEH		00072	58OUL	DBH- 2.17	0.23		0	<20	P 2
138	86		C	TEC-TEH	TEC-TEH	4	00032	58OUL	VH1- 0.92	0.30		0	<20	P 2
			C	TEC-TEH	TEC-TEH	4	00032	58OUL	VH2- 1.08	0.32		0	<20	P :
			C	TEC-TEH	TEC-TEH	4	00032	58OUL	VH2+ 0.70	0.28		0	<20	P 2
132	94		C	TEC-TEH	TEC-TEH		00035	58OUL	VH2- 0.89	0.57		0	27	P 2
50	98		C	TEC-TEH	TEC-TEH		00050	58OUL	DBH- 1.71	0.49		0	<20	P 2
142	98		C	TEC-TEH	TEC-TEH	4	00036	58OUL	08C+ 0.96	0.80		0	32	P 2
38	102		C	TEC-TEH	TEC-TEH		00049	58OUL	DBC- 1.22	0.34		0	<20	P 2
136	102		C	TEC-TEH	TEC-TEH	4	00038	58OUL	08C+ 25.95	0.92		159	<20	1
55	103		C	TEC-TEH	TEC-TEH		00048	58OUL	VC3+ 1.21	0.45		0	<20	P 2
34	104		C	TEC-TEH	TSC-TEH		00048	58OUL	DBC+ 1.71	0.33		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00059	58OUL	DBC+ 1.74	0.34		0	<20	P 2
46	104		C	TEC-TEH	TEC-TEH		00048	58OUL	VSM- 1.02	0.26		0	<20	P 2
74	104		C	TEC-TEH	TEC-TEH		00038	58OUL	DBC- 0.51	0.41		0	<20	P 2
35	105		C	TEC-TEH	TEC-TEH		00048	58OUL	VSM+ 13.10	0.86		159	<20	1
37	105		C	TEC-TEH	TEC-TEH		00048	58OUL	VSM+ 0.71	0.49		0	<20	P 2
41	105		C	TEC-TEH	TEC-TEH		00048	58OUL	TSH+ 0.80	0.52		146	25	1
136	114		C	TEC-TEH	TEC-TEH	4	00040	58OUL	VC1+ 2.14	0.92		148	<20	1
			C	TEC-TEH	TEC-TEH	4	00040	58OUL	DBC+ 1.46	0.54		0	<20	P 2
140	114		C	TEC-TEH	TEC-TEH	4	00040	58OUL	DBH+ 2.11	0.91		0	25	P 2
83	115		C	TEC-TEH	TEC-TEH		00040	58OUL	VSM+ 1.84	0.57		0	23	P 2
133	117		C	TEC-TEH	TEC-TEH	4	00040	58OUL	03C+ 10.81	0.50		154	<20	1
138	118		C	TEC-TEH	TEC-TEH	4	00040	58OUL	VH1- 1.14	1.25		0	35	P 2
50	128		C	TEC-TEH	TEC-TEH		00045	58OUL	03C+ 0.78	0.60		0	<20	P 2
77	131		C	TEC-TEH	TEC-TEH		00043	58OUL	VH3- 0.66	0.43		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00043	58OUL	VC3+ 0.72	1.07		0	30	P 2
46	138		C	TEC-TEH	TEC-TEH		00051	58OUL	04C- 0.30	0.26		0	<20	P 2
106	138		C	TEC-TEH	TEC-TEH		00051	58OUL	VH2- 0.90	0.44		0	<20	P 2
119	139		C	TEC-TEH	TEC-TEH		00051	58OUL	10C- 1.21	0.53		0	<20	P 2
47	145		C	TEC-TEH	TEC-TEH		00054	58OUL	VSM+ 1.03	0.41		0	<20	P 2

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

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

PAGE: 2 OF 2
DATE: 12/17/93
TIME: 10:29:50

ROW	COL	HEAT#	LEG	EXAM EXTENT		EXP	CAL	PROBE	LOCATION		CURRENT				
				PROGRAM	ACTUAL						VOLTS	MIL	DEG	%	CH
67	145		C	TEC-TEH	TEC-TEH		00054	580UL	VC3+	1.46	0.60		0	23	P 2
76	146		C	TEC-TEH	TEC-TEH		00054	580UL	VH3+	0.86	0.43		0	<20	P 2
104	146		C	TEC-TEH	TEC-TEH		00054	580UL	VH2-	0.60	1.11		0	31	P 2
			C	TEC-TEH	TEC-TEH		00054	580UL	VH3-	0.87	0.57		0	21	P 2
73	147		C	TEC-TEH	TEC-TEH		00054	580UL	VH3+	0.86	0.40		0	21	P 2
			C	TEC-TEH	TEC-TEH		00054	580UL	VSM-	0.86	0.38		0	<20	P 2
79	153		C	TEC-TEH	TEC-TEH		00055	580UL	VH3-	0.99	0.44		0	<20	P 2
			C	TEC-TEH	TEC-TEH		00055	580UL	VC3+	0.69	0.76		0	22	P 2
81	153		C	TEC-TEH	TEC-TEH		00055	580UL	VC3-	1.07	0.23		0	<20	P 2
77	155		C	TEC-TEH	TEC-TEH		00056	580UL	VH3+	0.88	0.40		0	<20	P 2

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 45
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 55

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

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 89052887
RS: 026-90
P&ID: 40111CSO3
N-5: S3-1212-9 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Nuclear Plant Sampling | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
3/4" Globe Valve	WKM	70-117773	1202	3HV0514	1977	---	Yes
1/4" Pipe Plug	ASP Steel	Hr. Code EYL	N/A	RSO 2257-9C SA-182, TP 316	N/A	Replacement	No

7. Description of Work:
- The packing leak-off plug was replaced and sealwelded in accordance with the requirements of weld record WR3-90-047.
8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer

Date: 3-14, 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 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.

[Signature]
Inspector's Signature

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

Date Feb. 15, 1994

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

As required by the Provision of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Comp.
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 89061826
R-3: 053-90, Rev 2
P&ID: 40112ASO3 (E-3)
N-5: S3-1204-34 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Comp.ny | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda (Valve), 1974 Edition, S74 Addenda (Pipe Plug), Code Cases: 1516-1 | |
| | (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
4" Globe Check Valve	Anchor Darling	2N801	N/A	S31204MU016	1977	- - -	Yes
Disc	Anchor Darling	SN 2 Ht. 32477	N/A	RSO 0764-92 SA-479, Tp 316	N/A	Replacement	Yes
1/2" Pipe Plug	Crane-Aloyco	Ht. Code OM	N/A	RSO 3124-92 SA-182, F316	N/A	Replacement	No

7. 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

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
 Pressure: 1520 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 5/9, 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 2/17/93 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.

[Signature]
Inspector's Signature

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

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

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 90052265
RS: GEN-024, Rev. 1
P&ID: 40123BSO3 (D-7)
N-5: S3-1208-4 |
| 2. | Plant: San Onofre Nuclear Generating Station
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: Chemical and Volume Control | Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
1 1/4" x 2 1/2" Nozzle Type Relief Valve	Crosby	N59377-00-0004	N/A	3PSV9206	1984	Replaced	Yes
1 1/4" x 2 1/2" Nozzle Type Relief Valve	Crosby	N59377-00-0003	N/A	Rebuild MO 89041852	1983	Replacement	Yes

7. Description of Work:
Relief valve located in plant position 3PSV9206 was replaced with a refurbished and tested spare relief valve.
8. Tests Conducted: System Leakage System Functional 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 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 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 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 the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 186-2 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
Traveler: SO3-91-006
CWO: 91041421000
91042624000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | NOMP: 2/3-6697.00SM
P&ID: 40112ASO3
N-5: S3-1204-21 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection System (1204) | |
| 5. | (a) 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, 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" Butt Weld Connector	Parker Hannifin Corp.	HT #UAMP	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
1/2" x .065 Wall Tube	Sandvik Steel	HT #462093	N/A	Item 10 RSO #0305-91	N/A	Replacement	No
1/2" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 13 RSO #1675-91	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 17 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70080	N/A	Item 16 S3-1204-MR-028 RSO #1672-92	1992	Replacement	Yes

7. Description of Work:
- NOMP 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 K per the WR-5.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
- Pressure: 138 psig Temp: 68°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.

9. 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: MAURANDY F. EL CONSTRUCTION MANAGER Date: AUGUST 3, 1992
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 System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-4-92 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.

CD Thompson Commissions 1862 California
Inspector's Signature (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

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

2. 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

4. Identification of System: Safety Injection System (1204)

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S-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 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" Butt Weld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	Item 61 RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 62 RSO #1469-91	N/A	Replacement	No
1/2" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 63 RSO #1675-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 60 RSO #0190-92	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 69 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70019	N/A	Item 66 S3-1204-MR-088 RSO #1441-91	1991	Replacement	Yes

7. 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 MQ per the WR-5.

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 138 psig Temp: 71°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.

Sheet 1 of 1

Unit: 3
Traveler: SC3-91-007
CWO: 91041416000
91042415000
MMP: 2/3-6697.00SM
P&ID: 40112ASO3
N-5: S3-1204-21

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

FORM NIS-2 (back)

9. 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: MA Maerdy FIELD CONSTRUCTION MANAGER Date: JUNE 15, 1992
 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 System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-16-91 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 inspection.

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

Date June 17, 1992

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station
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
4. Identification of System: Safety Injection System (1204)

Sheet 1 of 1
Unit: 3
Traveler: SO3-91-008
CWO: 91041427000
91042628000
MMP: 2/3-6697.00SM
PAID: 40112AS03
N-5: S3-1204-21

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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, 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" 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	Item 27 RSO #1469-91	N/A	Replacement	No
1/4" Tube Union	Parker Hannifin Corp.	HT #UA01	N/A	Item 28 RSO #1675-91	N/A	Replacement	No
1/4" x .065 Wall Tube	Sandvik Steel	HT #462093	N/A	Item 25 RSO #0305-91	N/A	Replacement	No
1/4" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 37 RSO #1511-91	N/A	Replacement	No
1/4" Globe Valve	Anderson-Greenwood & Co.	S/N N70079	N/A	Item 31 S3-1204-MR-089 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 end of tubing. Fabricate and install weld BL per the WR-5.

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic 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 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)

9. 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: MAM Macoulay FIELD CONSTRUCTION MANAGER Date: 8/3/92, 19__
 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 Artwright 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 9-4-92 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.

[Signature] Commissions B102 California
 Inspector's Signature (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

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

Sheet 1 of 1

Unit: 3

Traveler: 503-91-009

CWO: 91041423000

91042626000

MMP: 2/3-6697.00SM

P&ID: 40112A303

N-5: S3-1204-21

2. 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

Type Code Symbol Stamp: N/A

Authorization No: N/A

Expiration Date: N/A

4. Identification of System: Safety Injection System (1204)

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'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 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" Butt Weld Connector	Parker 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
1/2" Tube Union	Parker Hannifin Corp.	HT #UAMB	N/A	Item 50 RSO #0995-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Teledyne	HT #462093	N/A	Item 47 RSO #0305-91	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 54 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70040	N/A	Item 53 S3-1204-MR-367 RSO #1441-91	1991	Replacement	Yes

7. 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 MH per the WR-5.

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 138 psig Temp: 72°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.

FORM NIS-2 (back)

9. 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: MS Macdonald FIELD CONSTRUCTION MANAGER Date: June 15, 1992
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 System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6-17-92 to 9-18-92 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.

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

Date June 17, 1992

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128
3. Work Performed by: Rechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128
4. Identification of System: Safety Injection System (1204)
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'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 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Sheet 1 of 1

Unit: 3
Traveler: SC03-91-010
CWO: 91041417000
MMP: 2/3-6697.00SM
P&ID: 40112A303
N-5: S3-1204-34

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Buttweid 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
1/2" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 19 RSO #1675-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 16 RSO #0190-92	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 24 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70056	N/A	Item 22 S3-1204-MR-106 RSO #1441-91	1991	Replacement	Yes

7. 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.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 2375 psig Temp: 72°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.

FORM NIS-2 (back)

9. 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: W. M. Masland FIELD CONSTRUCTION MANAGER Date: June 15 1992
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 System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-18-92 to 91 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.

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

Date June 17 1992

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station
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
4. Identification of System: Safety Injection System (1204)
5. (a) 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, S'79 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Sheet 1 of 1
Unit: 3
Traveler: SO3-91-011 Rev. 0, 1, & 2
CWO: 91041429000
91042429001
91042629000
MMP: 2/3-6697.00SM
P&ID: 40112ASO3
N-5: S3-1204-22

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Butt Weld Connector	Parker 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
1/2" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 12 RSO #1675-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Sandvik Steel	HT #462093	N/A	Item 9 RSO #0305-91	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 19 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70081	N/A	Item 15 S3-1204-MR-114 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 1/2" tubing and install new isolation valve at end of tubing. Fabricate and install weld U per the WR-5.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 28 psig 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.

2/28/91

FORM NIS-2 (back)

9. 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: [Signature] BILL CODES E.A.S. Date: 9-8, 1992
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 System), of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/19/91 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 inspection.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Sept 11 19 92

ISI Engineer Reviewer: [Signature] Date: 9-8-92

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

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
Traveler: 503-91-012
CWO: 91041431000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | 91042631000
MMP: 2/3-6697.00SM
PAID: 40112BSO3
N-5: 53-1204-12 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection System (1204) | |
| 5. | (a) 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, 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
1/4" Butt-weld Connector	Parker Hannifin Corp.	HT #UAEH	N/A	Item 7 RSO #1470-91	N/A	Replacement	No
1/4" Pipe	Sandvik Steel	HT #462521	N/A	Item 8 RSO #1180-91	N/A	Replacement	No
1/2" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 9 RSO #1675-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Sandvik Steel	HT #462093	N/A	Item 6 RSO #0305-91	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 16 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70084	N/A	Item 12 53-1204-MR-133 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 1/2" tubing and install new isolation valve at end of tubing. Fabricate and install welds SBB and BA per the WR-5.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 813 psig Temp: 69°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.

FORM NIS-2 (back)

9. 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: MA Masonry FIELD CONSTRUCTION MANAGER
Owner or Owner's Designee Title

Date: AUGUST 3, 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 2-6-92 to 3-5-92 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.

[Signature]
Inspector's Signature

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

Date August 3⁴, 1992

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

As Required by the Provisions of the ASME Code Section XI

- Sheet 1 of 1
1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Safety Injection System (1204)
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Pipe)
ASME Section III, Class 2, 1983 Edition, S'85 Addenda (Valve), Code Case: 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" Butt Weld 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
1/2" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 48 RSO #1675-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Teladyne	HT #9E4558	N/A	Item 45 RSO #0190-92	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 52 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70020	N/A	Item 51 S3-1204-MR-279 RSO #1441-91	1991	Replacement	Yes

7. 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 Z per the WR-5.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
- Pressure: 2375 psig Temp: 72°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.

FORM NIS-2 (back)

9. 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: W. B. Manning FIELD CONSTRUCTION MANAGER
Owner or Owner's Designee, Title

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, Massachusetts have inspected the components described in this Owner's Report during the period 9-13-91 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 inspection.

W. B. Manning
Inspector's Signature

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

Date June 17, 1992

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

As Required by the Provisions of the ASME Code Section XI

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

2. Plant: San Onofre Nuclear Generating Station
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

4. Identification of System: Safety Injection System (1204)

5. (a) 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, 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" Butt-weld Connector	Parker Hannifin Corp.	HT #R4SD	N/A	Item 67 RSO #1470-91	N/A	Replacement	No
1" Tube End Reducer	Parker Hannifin Corp.	HT #UAJB	N/A	Item 68 RSO #1469-91	N/A	Replacement	No
1/2" Tube Union	Parker Hannifin Corp.	HT #UA01	N/A	Item 69 RSO #1675-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Sandvik Steel	HT #462093	N/A	Item 66 RSO #0305-91	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 73 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70083	N/A	Item 72 S3-1204-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 1/2" tubing and install new isolation valve at end of tubing. Fabricate and install weld BQ per the WR-5.

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic 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 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.

Sheet 1 of 1

Unit: 3

Traveler: SO3-91-021

CWO: 91041433000

91042633000

MMP: 2/3-6697.00SM

PAID: 40112ASO3

N-5: S3-1204-34

Type Code Symbol Stamp: N/A

Authorization No: N/A

Expiration Date: N/A

FORM NIS-2 (back)

9. 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: MS Mauding FIELD CONSTRUCTION MANAGER Date: August 3, 1992
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 Artwright 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 9-4-92 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.

[Signature] Commissions 1862 California
Inspector's Signature (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

- Sheet 1 of 1
1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
Traveler: 803-91-022
CWO: 91042412000
91041358000
2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128
MMP: 2/3-6697.00SM
P&ID: 401128903
N-5: 83-1204-12
3. Work Performed by: Bochtal Construction Company
P.O. Box 450
San Clemente, CA 92674-0128
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
4. Identification of System: Safety Injection System (1204)
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'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 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" Butt Weld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	Item 56 RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 57 RSO #1469-91	N/A	Replacement	No
1/2" Tube Union	Parker Hannifin Corp.	HT #CASJ	N/A	Item 58 RSO #1243-90	N/A	Replacement	No
1/2" x .065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 55 RSO #0190-92	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 64 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70060	N/A	Item 61 S3-1204-MR-368 RSO #2423-91	1991	Replacement	Yes

7. 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 PS per the WR-5.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 770 psig Temp: 71°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.

FORM NIS-2 (back)

9. 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: M. B. Mauding FIELD CONSTRUCTION MANAGER
Owner or Owner's Designee, Title

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.

[Signature]
Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date June 17, 1992

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

As Required by the Provisions of the ASME Code Section XI

- Sheet 1 of 1
1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
Unit: 3
Traveler: 903-91-023
CWO: 91041413000
91042413000
2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128
MMP: 2/3-6697.00SM
P&ID: 40112BSO3
N-5: S3-1204-35
3. Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A
4. Identification of System: Safety Injection System (1204)
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S⁷⁴ Addenda (Pipe)
ASME Section III, Class 2, 1983 Edition, S⁸⁵ Addenda (Valve), Code Cases: None
(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
3/4" Butt Weld 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
1/2" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 11 RSO #1675-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 8 RSO #0190-92	N/A	Replacement	No
1/4" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 20 RSO #1511-91	N/A	Replacement	No
1/4" Globe Valve	Anderson-Greenwood & Co.	S/N N70027	N/A	Item 14 S3-1204-MR-395 RSO #1441-91	1991	Replacement	Yes

7. 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 BR per the WR-5.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 138 psig Temp: 71°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.

FORM NIS-2 (back)

9. 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: MA Macomber FIELD CONSTRUCTION MANAGER Date: JUNE 15, 1992
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 Artwright 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 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.

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

Date June 17, 1992

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128
3. Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128
4. Identification of System: Safety Injection System (1204)
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Pipe)
ASME Section III, Class 2, 1983 Edition, S'85 Addenda (Valve), Code Cases: None
- (b) Application of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Sheet 1 of 1
Unit: 3
Traveler: 903-91-024
CWO: 91041414000
91042414000
MMP: 2/3-6697.00SM
P&ID: 40112AS03
N-5: S3-1204-21

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Butt Weld Connector	Parker Hannifin Corp.	HT #UAMP	N/A	Item 44 RSO #1470-91	N/A	Replacement	No
3/4" Tube End Reducer	Parker Hannifin Corp.	HT #CAZN	N/A	Item 45 RSO #1469-91	N/A	Replacement	No
1/2" Tube Union	Parker Hannifin Corp.	HT #CBEU	N/A	Item 46 RSO #1675-91	N/A	Replacement	No
1/2" x .065 Wall Tube	Teledyne	HT #9E4558	N/A	Item 43 RSO #0190-92	N/A	Replacement	No
1/2" Male Connector	Parker Hannifin Corp.	HT #CBHW	N/A	Item 50 RSO #1511-91	N/A	Replacement	No
1/2" Globe Valve	Anderson-Greenwood & Co.	S/N N70046	N/A	Item 49 S3-1204-MR-538 RSO #1441-91	1991	Replacement	Yes

7. 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 NP per the WR-5.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 138 psig Temp: 71°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.

FORM NIS-2 (back)

9. 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: MB Masonry FIELD CONSTRUCTION MANAGER Date: JUNE 15, 1992
 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 System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-18-91 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 inspection.

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

Date June 17, 1992

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 91060245
RS: 157-91 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40112BSO3
N-5: S3-1212-15 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Nuclear Sampling System | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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
4" Globe Valve	Kerotest	0S27-6	N/A	S31212MR182	1976	---	Yes
Valve Disc	Kerotest	ARP18-6	N/A	RSO 2485-91	1991	Replacement	Yes

7. Description of Work:
- The valve disc was replaced in the valve in plant position S31212MR182.
-
-
8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. 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

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

Date: Feb. 2, 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 7/24/91 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.

[Signature]
Inspector's Signature

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

Date Feb. 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 91121216
RS: 027-92
P&ID: 40127ES03 (D-2)
N-5: S3-1203-23 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Component Cooling Water | |
| 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, 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" 3-Way Valve Manifold	Gould Inc.	15040	N/A	3F16262	1978	Replaced	Yes
3/4" 3-Way Valve Manifold	Imperial Eastman Div.	42804	N/A	RSO 3069-86	1986	Replacement	Yes

7. Description of Work:
- The valve manifold for 3F16262 was replaced due to leakage.

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
- Pressure: 107 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization N: N/A

Expiration Date: N/A

Signed: [Signature] 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, Massachusetts have inspected the components described in this Owner's Report during the period 03/05/92 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 inspection.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date March 9, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92031609
RS: 132-92
PKID: 40113ASO3 (C-4)
N-5: S3-1204-4 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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
1/4" Globe Valve	Kerotest	BAX49-17	N/A	S31204MR319	1979	---	Yes
Valve Disc	Kerotest	ARP18-9	N/A	RSO 2485-91 SA-479, Gr. 316	1991	Replacement	Yes

7. Description of Work:
The valve disc was replaced in valve in plant position S31204MR319.
8. Tests Conducted: System Leakage 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 1/4 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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 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 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 corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

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

Date Jan 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|---|---|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None</p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p style="text-align: right;">Sheet 1 of 1</p> <p>Unit: 2</p> <p>MO: 92032181</p> <p>RS: 102-92</p> <p>P&ID: 40111BSO3</p> <p>N-5: S3-1201-02</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---|---|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
44" SS Flex Assembly	Metal Bellows	N/A	N/A	S31201ML313	N/A	Replaced	Yes
44" SS Flex Assembly	Parker Hannifin	032	N/A	RSO 3739-89	1989	Replacement	Yes

7. Description of Work:
- Due to leakage, the flexible hose connection downstream of valve S31201MR402 was replaced. The required VT-2 examination was bypassed and later performed as documented in NCR 92040016.
- Reference: NCR 92030191
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
- Pressure: 2250 psia Temp: N/A

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, 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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

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 by 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 arising from or connected with this inspection.

Inspector's Signature [Signature]

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

Date Dec. 22, 1992

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | | |
|----|---|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92032539
92091794 | |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: GEN-006, Rev. 2
273-93
P&ID: 40130ASO3
N-5: S3-1201-3
S3-1201-6 | |
| 3. | Work Performed by: Southern California Edison Company | | |
| 4. | Identification of System: Reactor Coolant | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, 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 | | |
| 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 (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
3/4" Flange Nuts (2)	Vitco Inc.	Ht. 5483089	N/A	RSO 3125-93 SA-194, Gr. 2H CR-2001-93 S31201ML142 S31301ML152	N/A	Replacement	No

7. 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.
8. Tests Conducted: System Leakage System Functional 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) 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 case nut from RSO 2-P-991-83 (certified to 1974 Edition, S'74 Addenda) was reconciled on ME-92-026, Rev. 1. The casing studs (certified to 1974 Edition, W'74 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, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: R. Holman for A. B. Meichler Supervising ASME Codes Engineer Date: 3/7 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 1/6/93 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.

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

Date March 7, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92041456
RS: 117-92
P&ID: 40113ASO3
N-5: N/A |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Safety Injection | |
| 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, 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" 3-Way Valve	Gould	14992	N/A	3LT0313	1978	Replaced	Yes
3/4" 3-Way Valve	Imperial Eastman	42790	N/A	RSO 3069-86	1986	Replacement	Yes

7. Description of Work:
A 3-way valve to the level indicator manifold 3LT0313 was replaced.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 640 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]
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 (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-22-92 to 7-22-92, 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 inspection.

[Signature]
Inspector's Signature

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

Date July 22 1992

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|---|--|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, W73 Addenda (Pump), 1980 Edition, S82 Addenda (Cartridge), Code Cases: None</p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p>Sheet 1 of 1</p> <p>Unit: 3</p> <p>MO: 92041841</p> <p>RS: GEN-006</p> <p>P&ID: 40111ASO3</p> <p>N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---|--|

Name 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-0562	N/A	S31201MP004 SO23-CART-21	1979	---	Yes
Reactor Coolant Pump Seal Cartridge	Bingham Willamette	1659057-11	1219	SO23-CART-26	1986	Replacement	Yes

7. Description of Work:
- The Reactor Coolant Pump Seal Cartridge was replaced as a result of scheduled maintenance operations.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
- Pressure: 2250 psia Temp: 535 °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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer

Date: 8-16, 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 04/25/92 to 05/21/92, 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.

[Signature]
Inspector's Signature

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

Date Aug 21 1992

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|--|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Main Steam</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3</p> <p>MO: 92041904
93110235</p> <p>RS: 121-92
GEN-039</p> <p>P&ID: 40141ESO3 (F-7)</p> <p>N-5: S3-1301-2</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|--|--|
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, No Addenda, Code Cases: None
- (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
4" Globe Valve	Fisher Inc.	6489981	4613	3HV8202	1979	---	Yes
1 1/8" φ-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
1 1/8" φ Nuts	Cardinal Industrial Products	Ht. Code "E2"	N/A	RSO 2366-92 SA-194, Gr. 7	N/A	Replacement	No

7. Description of Work:
- The body-to-bonnet 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.
8. Tests Conducted: System Leakage System Functional 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)

9. Remarks: The replacement studs and nuts were certified to Class 2, 1974 Edition, S74 Addenda and were reconciled on CR-89-002, 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 Date: N/A

Signed: *D. McMill*

Owner or Owner's Designee, Title

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 1/3/93 to 2/9/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

D. Thompson
Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date Feb. 9,

1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92050018
RS: 139-92 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | PRID: 40114BSO3 (D-7)
N-5: S3-1206-1 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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
1/4" Globe Valve	Kerotest	BAX27-18	N/A	S31206MU022	1979	- - -	Yes
Valve Disc	Kerotest	AEU8-9	N/A	RSO2-P-2249-83	1983	Replacement	Yes

7. Description of Work:
- The valve disc was replaced in valve in plant position S31206MU022.
8. Tests Conducted: System Leakage System Functional 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)

9. 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

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/28, 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 6-10-93 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.

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92050930
RS: 065-93
P&ID: 40111ASO3 (G-4)
N-5: S3-1201-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | 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, S72 Addenda, Code Cases: None | |
| | (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
1" Thermowell	Rosemount	Model 104 AFV-1	N/A	Thermowell @ 3TE0125-1	N/A	Replaced	No
1" Thermowell	Cogwell Mfg. Co.	TW-5	N/A	RSO 4955-85	N/A	Replacement	No

7. 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.

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic 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 1/4 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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *[Signature]*
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 5/28/93 to 1/20/94, 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.

[Signature]
Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date

Jan. 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92051610
RS: 155-92
P&ID: 4012489C3 (G-2)
N-5: S3-1208-5 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Chemical and Volume Control | Authorization No: N/A
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, 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
2" Check Valve	Kerotest	MA8-16	N/A	S31208MU067	1976	---	Yes
Valve Disc	Kerotest	ABH23-4	N/A	RSO 2-P-1372-83	1983	Replacement	Yes

7. Description of Work:
The valve disc was replaced.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 2400 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)

9. Remarks: A Class 1 disc was used 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

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/22 19 92
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 Aetna Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7/14/92 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.

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

Date: Nov. 23, 1992

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92060990
93120875 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: GEN-006, Rev. 2
P&ID: 40130BSO3
N-5: S3-1201-3 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1980 Edition, S'82 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
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

7. 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.
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None =

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Date: March 3, 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 10/3/93 to 3/3/94 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.

[Signature]
Inspector's Signature

Commissions

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

Date

March 3, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92060992
RS: 076-93, Rev. 1
P&ID: 40134ASO3 (E-6)
N-5: S3-1212-13 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Nuclear Plant Sampling | 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, 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
Spring Hanger	Sanwa Tekki	NS 90052	N/A	S3SS037H003	1979	--	No
1/4"-13 x 12" Threaded Rod	Nova Machine	Ht. 34105030	N/A	RSO 1647-93 SA-307, Gr. B	N/A	Replacement	No

7. 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.
8. Tests Conducted: System Leakage System Functional System in service 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/26, 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 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 inspection.

[Signature] Commissions 1574 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date December 28 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92061348
RS: 153-92 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40124BSO3
N-5: S3-1208-10 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Chemical and Volume Control | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, 573 Addenda, CoJe 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" Swing Check Valve	Walworth/Aloyco	A1626	636	S31208MU083	1974	---	Yes
Valve Disc	Crane Aloyco Inc.	S669 Ht. 25926	N/A	RSO 0088-88	1987	Replacement	Yes

7. Description of Work:
- The valve disc was replaced in check valve S31208MU083.
-
-
8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *C. W. Spindel*
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 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.

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

C. P. Thompson
Inspector's Signature

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

Date Jan. 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92071063
RS: 021-93, Rev. 1
P&ID: 40111CSO3
N-5: S3-1212-9 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Nuclear Sampling | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
3/4" Sch. 40 Pipe	Bechtel	S3-SS-072-01A	N/A	S3-1212-ML-072 Spool 1A	1979	Repaired/ Replaced	Yes
3/4" Sch. 40 Pipe	Sandvik	Ht. 462190	N/A	RSO 0995-93 SA-376, TP. 304	N/A	Replacement	No

7. Description of Work:

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

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 19 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13 19 94
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 08/12/93 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.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan 14 19 94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92072548
RS: 173-92
P&ID: 40111BSO3
N-5: J3-E087-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S75 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
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

7. Description of Work:

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

8. Tests Conducted: System Leakage System Functional 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 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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Date: Feb. 2, 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 10/25/93 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.

[Signature]
Inspector's Signature

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

Date Feb. 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92080359
RS: 179-92
P&ID: 40111B903
N-5: S3-1201-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) 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, 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
¾" Globe Valve	Rockwell-Edwards	CC604	N/A	S31201MR043	1986	Repaired	Yes

7. 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 S6874M. A post weld PT was performed on the seal weld with satisfactory results.

Reference: WR3-92-333

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
 Pressure: 2250 psig Temp: 530 °F

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, 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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: W. B. Meikle Supervising ASME Codes Engineer
Owner or Owner's Designee, Title

Date: Jan 19, 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 9-14-92 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.

Inspector's Signature

Commissions

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

Date

Jan 20, 1993

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

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92090262
RS: GEN-022
P&ID: 40112ASO3 (H-5)
N-5: S3-1204-21 |
| 2. | Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
½" 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
Base	Crosby	N91258-53-0073	N/A	RSO 2124-92	N/A	Replacement	No

7. Description of Work:
- The valve was disassembled for inspection due to excessive leakage. The code parts listed above required replacement.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
- RWST T005 Level @ 92%

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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 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, Massachusetts have inspected the components described in this Owner's Report during the period 11/30/92 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 inspection.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date March 9 1993

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92090987
RS: 194-92
P&ID: 40112AS03
N-5: S3-1204-21 |
| 2. | Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection | |
| 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, 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
HPSI Pump	Ingersoll Rand	1075157	304	S21204MP019	1978	- - -	Yes
Discharge Head	Cann & Saul Steel	90620	-	S21204MP019	-	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
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: W. L. Lippert R. B. Reich, Supervising ASME Codes Engineer
Owner or Owner's Designee, Title

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

W. L. Lippert
Inspector's Signature

Commissions

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

Date Feb. 5, 1993

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

Sheet 1 of 1

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

Unit: 3
CWO: 92091721000
92091721001
92091726000
92091740000

2. 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

MMP: 2/3-6697 00SM
P&ID: 40112C 503
N-5: S3-1204-11

4. Identification of System: Safety Injection System

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (Tubing & Fittings); ASME Section III Class 2, 1971 Edition, S'73 Addenda (Valve, Exemption IWA-7400 Taken, Supplied to '77, S'77).
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
Buttweld Conn. 3/4"	Parker Hannifin	HT #LATJ	N/A	Item #28 RSO #2484-91	N/A	Replacement	No
Tubing, 1/2" X .065 Wall S.S.	Sandvik Steel	HT #462093	N/A	Item #29 RSO #1294-91	N/A	Replacement	No
Male Conn. 1/2" X 1/2"	Parker Hannifin	HT #CBIY	N/A	Item #30 RSO 2333-91	N/A	Replacement	No
Tube End Reducer 3/4" X 1/2"	Parker Hannifin	HT #CAZN	N/A	Item #35 RSO #1469-91	N/A	Replacement	No
Globe Needle Valve, 1/2" 6000#	Anderson Greenwood	S/N N70082	N/A	S3-1204-MR-436 Item #31 RSO #1672-92	1992	Replacement	Yes

7. 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.

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Pressure: 3425 psig Temp: 74.4°F

FORM NIS-2 (back)

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

(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: M. Masonry FIELD CONSTRUCTION MANAGER Date: 12/16/92, 19__
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 System) of Norwood, Massachusetts have inspected the components described in this Owner's Report, during the period 10/16/92 to 12/17/92 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.

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

Date Dec. 17, 1992

ISI Engineer Review: [Signature] Date: 12/10/92

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|---|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None</p> <p style="padding-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3</p> <p>MO: 92091792</p> <p>RS: GEN-022</p> <p>P&ID: 40124ASO3 (G-3)</p> <p>N-5: S3-1208-10</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|--|---|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1/4" x 1/4" Nozzle-Type Relief Valve	Crosby	N59371-00-0005	N/A	3PSV9221	1977	Replaced	Yes
1/4" x 1/4" Nozzle-Type Relief Valve	Crosby	N59371-00-0036	N/A	RSO 0136-89	1988	Replacement	Yes

7. Description of Work:
- The relief valve in plant position 3PSV9221 was replaced in-kind.
-
-
8. Tests Conducted: System Leakage System Functional 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.

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: Al Meidel 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 10/1/93 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.

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

Date Jan 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 920918
93101731 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: GEN-009, Rev. 3
268-93
P&ID: 40141CSJ3 (G-7)
N-5: S3-1301-2 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Main Steam | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (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
6" x 10" Safety Valve	Crosby	N58737-00-0028	N/A	3PSV8410	1977	Replaced	Yes
6" x 10" Safety Valve	Crosby	N58737-00-0014	N/A	RSO 2742-93	1976	Replacement	Yes
(12) 1 1/4" x 8 Heavy Hex Nuts	Nova Machine Products	Heat Code K8H	N/A	RSO 1373-93 SA-194, Gr. 7	N/A	Replacement	No

7. 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.

*Flexidisc conversion per FCNs F8704M and F8216M

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.

8. Tests Conducted: System Leakage System Functional 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)

9. 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

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

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 10/15/93 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.

[Signature]
Inspector's Signature

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|--|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Main Steam</p> <p>5. (a) Applicable Construction Code: 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, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3
MO: 92091828
93101732
RS: GEN-009, Rev. 3
268-93
P&ID: 40141CSO3 (G-6)
N-5: S3-1301-2</p> <p>Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A</p> |
|--|--|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
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 1/4" x 8 Heavy Hex Nuts	Nova Machine Products	Heat Code K8H	N/A	RSO 1373-93 SA-194, Gr. 7	N/A	Replacement	No

7. 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.
- *Flexidisc conversion per FCNs F8407M and F8216M
- 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.
8. Tests Conducted: System Leakage System Functional 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)

9. 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

Signed: *A. Whittle* Supervising ASME Codes Engineer Date: 1/13, 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 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.

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92091829
93101734 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: GEN-009, Rev. 3
268-93
P&ID: 40141CSO3 (G-4)
N-5: S3-1301-2 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Main Steam | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None
(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
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
1 1/4" x 8 Heavy Hex Nuts	Cardinal Industrial Products	Heat Code E2	N/A	RSO 1171-93 SA-194, Gr. 7	N/A	Replacement	No

7. 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.

*Flexidisc conversion per FCNs F8704M and F8216M.

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.

8. Tests Conducted: System Leakage System Functional 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)

9. 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

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13, 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 09/15/93 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.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan 14 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92091830
93101612 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: GEN-009, Rev. 3
268-93
P&ID: 40141DSO3 (G-6)
N-5: S3-1301-1 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Main Steam | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None
(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
6" x 10" Safety Valve	Crosby	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 1/8" x 8 Heavy Hex Nuts	Cardinal Industrial Products	Heat Code E-2	N/A	RSO 1171-93 SA-194, Gr. 7	N/A	Replacement	Yes

7. 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.
8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. 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

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/15/93 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.

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92091831
93101733 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: GEN-009, Rev. 3
268-93
P&ID: 40141CSO3
N-5: S3-1301-2 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Main Steam | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (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
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 1/4" 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 1/4" x 8 Heavy Hex Nuts	Cardinal Industrial Products	Heat Code E2	N/A	RSO 1171-93 SA-194, Gr. 7	N/A	Replacement	No

7. 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.

*Flexidisc conversion per FCNs F8407M and F8216M

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.

8. Tests Conducted: System Leakage System Functional 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)

9. 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

Signed: [Signature]
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 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

[Signature]

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date

Jan 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92091836
RS: 217-52, Rev. 1
P&ID: 40111ASO3 (G-2)
N-5: S3-1201-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | 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, W71 Addenda, Code Cases: None | |
| | (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
(16) RCP Casing Studs	Byron Jackson	Ht. 126121	N/A	RSO 3-P-991-83	N/A	Repaired	No

7. Description of Work:
- In accordance with FCN S7343M, the ISI holes on 16 studs were redrilled/reamed. A surface and volumetric examination was performed on each stud after redrilling/reaming.
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.

FORM NIS-2 (back)

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13 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 06/05/93 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.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan 14 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92092029
RS: 209-92 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40134ASO3
N-5: S3-1212-6 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Nuclear Sampling | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, No Addenda, Code Cases: None | |
| | (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
1" Valve w/4" 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

7. 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 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

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 3/10/93 to 3/1/94, 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.

[Signature]
Inspector's Signature

Commissions 186.2 California
(National Board, State, Province, and Endorsements)

Date Feb. 1, 19 94

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 92092030
RS: 208-92
P&ID: 40134ASO3 (C-7)
N-5: S3-1212-6 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Nuclear Sampling | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
4" Globe Valve	WKM	70-117771	1200	3HV0512	1978	- - -	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 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed [Signature] ABM Supervising ASME Codes Engineer Date: Feb. 1, 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 10/16/93 to 2/1/94, 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.

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

Date Feb. 1, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92092258
RS: 200-92 |
| 2. | 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 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S773 Addenda, Code Cases: None | |
| | (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
4" Globe Valve	Kerotest	BAE21-20	N/A	S31204MR320	1979	- - -	Yes
Disc	Kerotest	ARP19-2	N/A	RSO 2485-91	1991	Replacement	Yes

7. Description of Work:
- Kerotest valve in plant position S31204MR320 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.
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13, 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 10/17/92 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.

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92100117
RS: 213-92
P&ID: 40122BS03 C-4
N-5: S3-1219-4 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Fuel Pool Cooling | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S75 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
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

7. Description of Work:
- The instrument valve was replaced due to leakage.
8. Tests Conducted: System Leakage System Functional 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.

9. Remarks: 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 No: N/A

Expiration Date: N/A

Signed: *R. H. Feitel*
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 7/15, 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 07/06/93 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 the ASME Code, Section XI.

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

Ernest C. ...
Inspector's Signature

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

Date July 15 1993

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92111288
RS: 135-93
P&ID: 40111BSO3 (E-4)
N-5: S3-1201-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, S75 Addenda, Code Cases: None | |
| | (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
¾" Globe Valve	Rockwell Edwards	CC606	N/A	S31201MR038	1986	Repaired	Yes

7. Description of Work:

The valve located in plant position S31201MR038 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

8. Tests Conducted: System Leakage 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 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2 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 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 inspection.

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

Date Feb. 15, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MID: 92111356
RS: 070-93
P&ID: 40111BSO3
N-5: S3-1201-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | 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, 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
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

7. Description of Work:
- The pressurizer heater in plant position S31201ME613 was replaced.
- References: NCR 92030170, WR3-93-169
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13 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 7/2/93 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.

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92111357
93101799
93101833 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: 071-93
266-93 |
| 3. | Work Performed by: Southern California Edison Company | P&ID: 40111BSO3
N-5: S3-1201-2 |
| 4. | Identification of System: Reactor Coolant | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S71 Addenda, Code Cases: None | |
| | (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
Pressurizer Heater	Combustion Engineering	CE# 25E	N/A	S31201ME623	1981	Repaired	Yes
Pressurizer Heater Plug	Hub Inc.	Ht. A53520	N/A	RSO 0759-93 SA-479, Tp. 316	N/A	Replacement	No

7. 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
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/14 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7/3/93 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.

[Signature] Commissions 1562 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan. 14, 19 94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92112756
RS: 240-92, Rev. 1
P&ID: 40113BSO3
N-5: S3-1204-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (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
1"φ Sch. 160 Spool Piece	Bechtel	S3-SI-065-01B	N/A	S31204ML065	1982	Replaced	Yes
1"φ Sch. 160 Spool Piece	Aitech Specialty Steel Corp.	Ht. AH6710	N/A	RSO 1360-93 SA-376, TP. 316	N/A	Replacement	No

7. 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 P8751M). The new welds were examined by radiography and liquid penetrant examination.
- Reference: WR3-92-451
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]
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 1/10/94 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

[Signature]

Commissions

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

Date

Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128
3. Work Performed by: Southern California Edison Company
4. Identification of System: Reactor Coolant

Unit: 3
MO: 92120994
93101798
93101833
RS: 069-93
265-93
P&ID: 40111BSO3
N-5: S3-1201-2

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

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S71 Addenda, Code Cases: None
- (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
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

7. 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

8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None =

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Date March 02, 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 10/30/93 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.

[Signature]
Inspector's Signature

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

Date March 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 92121424
RS: GEN-022, Rev. 1
P&ID: 40112ASO3 (D-5)
N-S: S3-1204-21 |
| 2. | Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
1/4" 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

7. Description of Work:
- The 1/4" relief valve in plant position 3PSV8154 was refurbished.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
Tank T006 Level @ 96%

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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]
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 8-20-93 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

[Signature]

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date

Jan 6, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93010738
RS: GEN-015
P&ID: 40111BSO3 (G-7)
N-5: S3-1201-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: 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 |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, No Addenda (Valve),
S74 Addenda (Bolting), Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S70 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 1 1/4" 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.

8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/14, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/22/93 to 1/4/94, 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.

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

Date Jan. 14, 19 94

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93010745
RS: GEN-015
P&ID: 40111BSO3 (G-5)
N-5: S3-1201-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, No Addenda, Code Cases: None | |
| | (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
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

7. Description of Work:
- The pressurizer safety valve in plant position 3PSV0201 was replaced with a tested and refurbished spare valve.
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 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 9/22/93 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.

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93012466
RS: 136-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40111BSO3 (E-6)
N-5: S3-1201-2 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, S75 Addenda, Code Cases: None | |
| | (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
4" Globe Valve	Rockwell Edwards	CC650	N/A	S31201MR040	1986	Repaired	Yes

7. Description of Work:
- 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
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/14, 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 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 inspection.

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

Date Feb. 15, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93020105
RS: GEN-006, Rev. 2
P&ID: 40130BSO3
N-5: S3-1201-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1980 Edition, S'82 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
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

7. Description of Work:
- The seal cartridge was replaced in RCP S31201MP001.
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *R. Mill* Supervising ASME Codes Engineer Date: 2-14, 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 10/27/93 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.

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

Date Feb 15, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93020823
RS: GEN-005, Rev. 2
P&ID: 40111ASO3
N-5: S3-1201-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | 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, 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
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	Ht. 52763	N/A	RSO 2554-85 SA-194, Gr. 7	N/A	Replacement	No

7. Description of Work:
- The primary manway studs and nuts were replaced on steam generator S31301ME089P. A VT-1 examination was performed on all replacement studs and nuts. A UT examination was performed on all replacement geared nuts.
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 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 5/4/93 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.

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93021747
RS: GEN-016, Rev. 1
P&ID: 40112DSD3
N-5: S3-1201-4 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
6" x 8" Nozzle-Type Relief Valve	Crosby	N60061-00-0002	N/A	3PSV9349	1978	Replaced	Yes
6" x 8" Nozzle-Type Relief Valve	Crosby	N60061-00-0001	N/A	MO 92031037	1978	Replacement	Yes

7. Description of Work:
- The relief valve in plant position 3PSV9349 was replaced with a tested spare valve (ref. MO 92031037).
-
-
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
- Pressure: 495.919 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/5, 19 94
 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 6-10-93 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.

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

Date Jan. 6, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93030293
RS: 086-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40112ASO3 (B-7)
N-5: S3-1204-21 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety 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, 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
Spring Can	ITT Gnnnell	S3-SI-003-H-005	N/A	S3SI003H005	N/A	Replaced	No
Spring Can	ITT Gnnnell	Ht. Code A	N/A	RSO 1871-93 SA-36	N/A	Replacement	No

7. 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.
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: P. Holmes for A.B. Meichler, Supervising ASME Codes Engineer Date: 3/8, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/10/93 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 inspection.

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

Date March 8, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93030294
RS: 077-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40112ASO3 (B-7)
N-5: S3-1204-21 |
| 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-NF, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (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
Spring Can	ITT Grinnell	S3-SI-004-H-005	N/A	S3SI004H005	N/A	Replaced	No
Spring Can	ITT Grinnell	Ht. Code A	N/A	RSO 1871-93 SA-36	N/A	Replacement	No

7. 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.
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed *Robert A. B. Meibler* Supervising ASME Codes Engineer Date: 3/8 19 94
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/1/93 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 inspection.

Robert A. B. Meibler Commissions 1862 California
 Inspector's Signature (National Board, State, Province, and Endorsements)

Date March 8, 19 94

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|--|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128</p> <p>4. Identification of System: Steam (1301)</p> <p>5. (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</p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p style="text-align: right;">Sheet 1 of 2</p> <p>Unit: 3</p> <p>CWO: 93030750000 93030892000
93030775000 93030895000
93030796000 93030895001
93030808000 93081476000</p> <p>DCP: 3-6869.00-0</p> <p>P&ID: 40141DSO3</p> <p>N-5: S3-1301-1</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|--|--|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
34"X4" Weldolet	WFI Nuclear	HT # 599VNF	N/A	Item 25 CWO # 93030750000 DWG # S31301ML363 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

7. Description of Work: Install 4" weldolet on line S3-1301-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 I.D. |
| 93030750000 | S3-1301-ML-363 | SA |
| 93030796000 | SO23-503-7-1-730 | SMB, SMC, SMD, SME, SMK |
| 93030808000 | SO23-503-7-1-730 | SMF, SMG, SMH, SMJ, SML |
| 93030892000/93030895000/001 | S3-1301-ML-578 | D, E, F, G, H, J, K, L, M, N |
| | S3-ST-578-H-005 | SA, SB |

8. 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)

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

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Bechtel Fuel Cost Dept. Date: March 7, 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 Arwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2/10/94 to 3/3/94 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.

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

Date March 8, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 3-4-94

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Steam (1301)
5. (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:

Unit: 3
CWO: 9303075000 93030892000
93030775000 93030895000
93030796000 93030895001
93030808000 93081476000
DCP: 3-6869-00-0
P&ID: 40141DSO3
N-5: S3-1301-1
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Ell, 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	Item 6 CWO # 93030892000 DWG # S31301ML578 RSO # 0358-93	N/A	Replacement	No
Pipe, 4", Sch. 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, 1" Thk.	Lukens	SN # C6293	N/A	Item 38 CWO # 93030892000 DWG # S3ST578H005 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

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 2

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

2. 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

Unit: 3
CWO: 93030753000 93030819000
93030792000 93030833000
93030795000 93030833001
93081476000 93031067000

DCP: 3-6869 00-0
P&ID: 40141CS03
N-5: S3-1301-2

4. Identification of System: Steam (1301)

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, §74 Addenda (Piping), ASME Section III, Class 2, 1974 Edition, §75 Addenda (Valves), ASME Section III, Class 2, 1974 Edition, §74 Addenda, Subsection "NC", 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 Yes/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° Ell	Tube Forge	HT # F194	N/A	Item 9, 10, 11, 12 CWO # 93030819000 DWG # S31301ML004 RSO # 1439-93	N/A	Replacement	No
4", 90° Ell	Custom Alloy	HT # 8689A	N/A	Item 13 CWO # 93030819000 DWG # S31301ML004 RSO # 0358-93	N/A	Replacement	No
4" Pipe, Sch. 80	Nippon Kokan	HT # N71668	N/A	Item 14, 15, 16, 17 CWO # 93030819000 DWG # S31301ML004 RSO # 2469-93	N/A	Replacement	No

7. Description of Work: Prefab and install bypass line S3-1301-ML-003, install/complete bypass 3HV-8200, and install 4" weldolet on line S3-1301-ML583.

Perform welds per the WR5/5A's and WMFCR's.

CWO #	DWG #	WELD I.D.
93030753000	S31301ML583	SB
93030792000	S02350371730	ST, SU, SV, SW, SMM
93030795000	S02350371730	SX, SY, SZ, SMA, SMN
93030833000	S31301ML004	H, J, K, L, M, N, P(C-1), Q, G
	S3ST004H005	5A, 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 psia, Temp: 545°F
VT-2 Test on CWO 93030833001- System Functional [X], Pressure: 1000 psia, Temp: 545°F

FORM NIS-2 (back)

9. 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: Bert Y. Campos - Bechtel Field Const. Mgr. Date: March 7, 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 Aetna Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/2/93 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 loss of any kind arising from or connected with this inspection.

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

Date March 8, 1994

ISI Engineer Review: Arum H. Mahindrakav Date: 3-4-94

Sheet 2 of 2

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
CWO: 93030753000 93030819000
93030792000 93030833000
93030795000 93030833001
93081476000 93031067000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: 3-6869.00-0
P&ID: 40141CS03
N-5: 63-1301-2 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Steam (1301) | |
| 5. | (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, 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, 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" 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" Socket, 6000#	WFI	HT # Z6	N/A	Item 118, 126 CWO # 93031067000 DWG # S023-503-7-1-730 RSO # 0264-93	N/A	Replacement	No
3/4" Pipe, Sch. 160	Sumitomo	HT # J212229	N/A	Item 119, 121, 123, 125 CWO # 93031067000 DWG # S023-503-7-1-730 RSO # 0051-93	N/A	Replacement	No
90° Ell, 3/4", 6000#	Capitol Mfg.	HT # R4C	N/A	Item 120, 124 CWO # 93031067000 DWG # S023-503-7-1-730 RSO # 2539-93	N/A	Replacement	No
3/4" Gate Valve S31301MU1411	Vogt	SN # 11-215315	N/A	Item 122 DWG # S023-503-7-1-730 CWO # 93031067000 RSO # 4006-86	1986	Replacement	Yes

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041428
RS: 183-93
P&ID: 40141DSO3
N-5: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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: 1644-5 | |
| | (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 35-6	Pacific Scientific	2669	N/A	S3ST001H014	1978	Replaced	No
29 11/16" Rigid Strut	Lisege	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	Lisege	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	Lisege	S3-ST-001-H-022W R724D, G7-1A1	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

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.

FORM NIS-2 (back)

9. Remarks: The Lisege 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: *[Signature]*
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 1/13/93 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.

[Signature]
Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date Feb 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041429
RS: 192-93
P&ID: 40141DSO3
N-5: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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: 1644-5 | |
| | (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 35-6	Pacific Scientific	2668	N/A	S3ST001H031	1978	Replaced	No
27 1/8" 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	Ht. B341D Z45	N/A	RSO 2820-93	N/A	Replacement	No

7. 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 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 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 Liseaga 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: [Signature] Supervising ASME Codes Engineer Date: 2/25, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/13/93 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.

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

Date Feb. 25, 19 94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041430
RS: 183-93
P&ID: 40141DSO3
N-5: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Main Steam | |
| 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 35	Pacific Scientific	5823	N/A	S3ST363H002	N/A	Replaced	Yes
29 1/4" Rigid Strut	Lisega	S3-ST-363-H-002 R723D, G7-1A1	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
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.

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, S74 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: [Signature], Supervising ASME Codes Engineer Date: 2/25, 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 9/13/93 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.

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

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041435
93111134 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: 193-93
287-93
P&ID: 40141DSO3
N-5: S3-1301-1 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Main Steam | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 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 10-6	Pacific Scientific	8289	N/A	S3ST580H002	N/A	Replaced	Yes
52 1/4" Rigid Strut	Liseqa	S3-ST-580-H-002 R88D, B336D	N/A	RSO 2622-93	N/A	Replacement	No
Rear Brackets (2)	Liseqa	Ht. Z45, AS7A2, Z35D	N/A	RSO 2820-93	N/A	Replacement	No

7. 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
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 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 Lisege 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, S74 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: [Signature]
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 9/13/93 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.

[Signature]
Inspector's Signature

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

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041455
RS: 182-93
P&ID: 40141DSO3
N-5: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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, 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
Spring Hanger Assembly	Grinnell	Ht. C-268	N/A	S3ST001H013A	N/A	Permanently Deleted	No
Spring Hanger Assembly	Grinnell	Ht. C-268	N/A	S3ST001H013B	N/A	Permanently 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
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] 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 9/23/93 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.

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

Date Jan. 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041457
RS: 182-93
P&ID: 40141DSO3
N-S: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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, 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
Spring Hanger Assembly	Grinnell	Fig. B-268	N/A	S3ST001H029	N/A	Permanently Deleted	No

7. 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
-
-
8. Tests Conducted: System Leakage System Functional System In-service 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/26, 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 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.

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041472
RS: 182-93
P&ID: 40114BSO3
N-5: S3-1206-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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: 1644-5
(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 3-5	Pacific Scientific	3341	N/A	S3CS004H006	1977	Permanently Deleted	Yes

7. Description of Work:
- 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
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer

Date: 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 4/9/93 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.

[Signature]
Inspector's Signature

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

Date Jan. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041475
RS: 182-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40114BSO3
N-5: S3-1206-4 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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, 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	11720	N/A	S3CS004H056	1980	Permanently Deleted	No

7. 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *R. McField*, Supervising ASME Codes Engineer Date: 12/26, 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 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 the ASME Code, Section XI.

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

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041478
RS: 182-93
P&ID: 40114BSO3
N-5: S3-1206-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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: 1644-5 | |
| | (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 3-5	Pacific Scientific	6979	N/A	S3CS004H007	1979	Permanently Deleted	Yes

7. Description of Work:
- 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
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/22, 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 9/7/93 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.

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

Date Jan. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041484
RS: 183-93
P&ID: 40114BSO3
N-5: S3-1206-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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: 1644-5 | |
| | (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 3-5	Pacific Scientific	8082	N/A	S3CS004H002	1979	Replaced	Yes
18 1/4" Rigid Strut	Liseqa	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	S3CS004H043	N/A	Replaced	No
37 1/4" Rigid Strut	Liseqa	S3-CS-004-H-043 R524D, G5-33	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

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.

FORM NIS-2 (back)

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, S74 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: [Signature] Supervising ASME Codes Engineer Date: 2/25, 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 9/13/93 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.

[Signature] Inspector's Signature Commission 1862 California
(National Board, State, Province, and Endorsements)

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041537
RS: 182-93
P&ID: 40114BSO3
N-5: S3-1206-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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: See Block 6 | |
| | (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	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	6320	NA	S3CS004H054 Code Case 1644-5	1978	Permanently Deleted	Yes

7. 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer

Date: 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 7-7-93 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.

[Signature]
Inspector's Signature

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041543
RS: 189-93
P&ID: 4011#BSO3
N-5: S3-1206-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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: 1644-5 | |
| | (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	Pacific Scientific	3103	N/A	S3CS004H028	1976	Replaced	Yes
304 ^{1/2} " Rigid Strut	Lisege	S3-CS-004-H-023 R317D, G3-3123	N/A	RSO 2622-93	N/A	Replacement	No
Rear Brackets w/Pin (2)	Lisege	Ht. AS315, Z218	N/A	RSO 2820-93	N/A	Replacement	No

7. 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

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.

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, S74 Addenda of ASME III Appendix 1, or in Code Case N-71 or N-249 for use in NF pipe support application.

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/25, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1/19/93 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.

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

Date Feb 25, 19 94

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041551
RS: 183-93
P&ID: 40114BSC03
N-5: S3-1206-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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: 1644-5 | |
| | (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	1595	N/A	S3CS004H048E	1977	Replaced	Yes
1 1/4" Rigid Strut	Lisege	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
1 1/4" Rigid Strut	Lisege	S3-CS-004-H-048W 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
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.

FORM NIS-2 (back)

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, S74 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: *[Signature]* Supervising ASME Codes Engineer Date: 2/25, 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 9/9/93 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.

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

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041562
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 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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: 1644-5 | |
| | (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 ¼	Pacific Scientific	33868	N/A	S3CS031H003	1984	Replaced	Yes
12½" Rigid Strut	Lisega	S3-CS-031-H-003 R213D, G2-111	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

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, S74 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: [Signature], Supervising ASME Codes Engineer Date: 2/25, 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 9/9/93 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.

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

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041588
RS: 183-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40122BSC03
N-5: S3-1219-3 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Fuel Pool Cooling | 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: 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	11120	N/A	S3FS057H098B	N/A	Replaced	No
13/16" Rigid Strut	Lisege	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
13/16" Rigid Strut	Lisege	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
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.

FORM NIS-2 (back)

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, S74 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: *A. Meikle*

Supervising ASME Codes Engineer

Date: 2/25, 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

2/19/93 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.

[Signature]
Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041614
RS: 182-93
P&ID: 40124B503
N-5: S3-1208-10 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Chemical and Volume Control | 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: 1644-5 | |
| | (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	1591	N/A	S3VC007H010	1977	Permanently Deleted	Yes

7. 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 1/2 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/26, 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 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.

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93041627
RS: 197-93
P&ID: 40124RSO3
N-5: S3-1208-10 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Chemical and Volume Control | 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, 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
Sway Strut	Grinnell	S3-VC-007-H-017	N/A	S3VC007H017	N/A	Replaced	No
32 1/4" Rigid Strut	Lisege	S3-VC-007-H-017 R213D, G2-111	N/A	RSO 2622-93	N/A	Replacement	No
Rear Bracket w/Pin (2)	Lisege	Ht. AS214, Z218, Z55	N/A	RSO 2820-93	N/A	Replacement	No

7. Description of Work:
- The sway strut (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.
- 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.

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, S74 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: [Signature] Supervising ASME Codes Engineer Date: 2/25, 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 9/15/93 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.

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

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041938
RS: 182-93
P&ID: 40141ASD3
N-5: S3-1301-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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: See Block 6 | |
| | (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 4	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

7. 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 1/4 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: 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: [Signature]
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 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.

[Signature]
Inspector's Signature

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

Date Jan. 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | | |
|------------------------------|---|-------------------------|-----------------|
| 1. Owner: | Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3 | MO: 93041939 |
| 2. Plant: | San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: 183-93 | P&ID: 40141ASO3 |
| 3. Work Performed by: | Southern California Edison Company | Type Code Symbol Stamp: | N/A |
| 4. Identification of System: | Main Steam | 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: 1644-5 | | |
| (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 3	Pacific Scientific	5202	N/A	S3ST016H706	1978	Replaced	Yes
31" Rigid Strut	Liseqa	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
37 1/4" Rigid Strut	Liseqa	S3-ST-016-H-716 R317D, G3-3123	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

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.

FORM NIS-2 (back)

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: *[Signature]*
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 2/15/93 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 California
(National Board, State, Province, and Endorsements)

Date Feb 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041940
RS: 195-93, Rev. 1
P&ID: 40141ASO3
N-5: S3-1301-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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, 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 1/2	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

7. 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

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.

FORM NIS-2 (back)

9. Remarks: All replacement items were certified to ASME III, Class 1. CR-88-005 reconciles the pipe clamp assembly certified to 1980 Edition, W'82 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

Signed:

[Signature] for ABM Supervising ASME Codes Engineer
Owner or Owner's Designee, Title

Date: Feb. 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 9/15/93 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.

[Signature]
Inspector's Signature

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

Date Feb. 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041942
RS: 182-93
P&ID: 40141FSO3
N-5: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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, 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 ¼	Pacific Scientific	13777	N/A	S3ST001H059	N/A	Permanently Deleted	No

7. 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 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]

Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: 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 4-14-93 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 Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|---|---|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Main Steam</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644</p> <p style="margin-left: 20px;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3</p> <p>MO: 93041943</p> <p>RS: 183-93</p> <p>P&ID: 40141FSO3</p> <p>N-5: S3-1301-1</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---|---|

Name 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	36910	N/A	S3ST001H060	N/A	Replaced	No
32¼" Rigid Strut	Liseга	S3-ST-001-H-060 R213D, G2-111	N/A	RSO 2622-93	N/A	Replacement	No
Mechanical Snubber PSA ¼	Pacific Scientific	9224	N/A	S3ST001H062	N/A	Replaced	No
9¼" Rigid Strut	Liseга	S3-ST-001-H-062 D209D, G2-21	N/A	RSO 2322-93	N/A	Replacement	No
Mechanical Snubber PSA 1	Pacific Scientific	11715	N/A	S3ST001H065	N/A	Replaced	No
40 7/16" Rigid Strut	Liseга	S3-ST-001-H-065 R317D, G3-3123	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
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 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, S74 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: *[Signature]*

Supervising ASME Codes Engineer

Date: 2/25, 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

9/15/93 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.

[Signature]
Inspector's Signature

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

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93041944
RS: 183-93
P&ID: 40113BSO3
N-5: S3-1204-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1-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 1/2	Pacific Scientific	9216	N/A	S3SI065H042	1978	Replaced	No
9/16" Rigid Strut	Lisege	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

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

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, S74 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: *R. M. [Signature]*, Supervising ASME Codes Engineer Date: 2/25, 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 9/9/93 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.

[Signature] Commissions 186.2 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Feb. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93042050
RS: 182-93
P&ID: 40114ASO3
N-5: S3-1204-34 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2-NP, 1974 Edition, S74 Addenda, Code Cases: 1644-5 | |
| | (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	2292	N/A	S3CS020H003	1977	Permanently Deleted	Yes

7. 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 1/2 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *[Signature]* Supervising ASME Codes Engineer Date: 12/26, 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 4-9-93 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 the ASME Code, Section XI.

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

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93042132
RS: 182-93
P&ID: 40112BSC3
N-5: S3-1204-34 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety 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, 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	9186	N/A	S3SI132H002	1980	Permanently Deleted	No

7. 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 1/2 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] 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 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.

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

Date Jan 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93042134
RS: 183-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40114ASO3
N-5: 53-1206-34 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Containment Spray | 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: 1644-5
(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	3565	N/A	S3CS020H001	1978	Replaced	Yes
9/16" Rigid Strut	Liseaga	S3-CS-020-H-001 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
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.

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, S74 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: *[Signature]*

Supervising ASME Codes Engineer

Date: 2/25 19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/9/94 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.

[Signature]
Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date Feb 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93042135
RS: 182-93
P&ID: 40111B503
N-5: S3-1212-13 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | 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: 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 ¼	Pacific Scientific	15117	N/A	S3RC094H009	1980	Permanently Deleted	No

7. 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *A. J. Fidler*
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 9-9-93 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)

Date

Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93042136
RS: 182-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40111BSO3
N-5: S3-1201-11 |
| 3. | Work Performed by: Southern California Edison 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, 574 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	13988	N/A	S3RC096H025	1980	Permanently Deleted	No

7. 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 1/2 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/26, 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 4-4-93 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.

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93042139
RS: 182-93
P&ID: 40141ASO3
N-5: S3-1301-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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: See Block 6 | |
| | (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 ¼	Pacific Scientific	37500	N/A	S3ST018H702	N/A	Permanently Deleted	No
Mechanical Snubber PSA ¼	Pacific Scientific	3998	N/A	S3ST018H706 Code Case 1644-6	1977	Permanently Deleted	Yes
Mechanical Snubber PSA ¼	Pacific Scientific	4140	N/A	S3ST018H707	N/A	Permanently Deleted	No
Mechanical Snubber PSA ¼	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 ¼	Pacific Scientific	3839	N/A	S3ST018H723 Code Case 1644-5	1977	Permanently Deleted	Yes

7. 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 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.

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/26, 1997
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/14/93 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.

[Signature] Commissions 1574 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date December 28 1993

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93042140
RS: 183-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40141ASO3
N-5: S3-1301-2 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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: 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 ¼	Pacific Scientific	15112	N/A	S3ST018H709	N/A	Replaced	No
12" Rigid Strut	Liseqa	S3-ST-018-H-709 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

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 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)

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)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *[Signature]*

Supervising ASME Codes Engineer

Date: 2/25, 19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/15/94 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.

[Signature]
Inspector's Signature

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

Date Feb. 25, 19 94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93042170
RS: 182-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40112CS03
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: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1-NP, 1974 Edition, S74 Addenda, Code Cases: 1644-5 | |
| | (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	1827	N/A	S3S1166H002	1977	Permanently Deleted	Yes

7. 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]
Owner of 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 9-9-93 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.

[Signature]
Inspector's Signature

Commissions

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93042177
RS: 198-93
P&ID: 40141ASO3
N-5: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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, 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
Transverse Pipe Stop	Grinnell	Ht. B074	N/A	RSO 2769-93	N/A	Replacement	No

7. 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
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/22, 19 94
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 10/16/93 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.

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

Date Jan. 25, 1994

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

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
CWO: 93050031000
93050032000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | FCN: F7374M
P&ID: 40112BSO3
N-5: 53-1204-36 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection (1204) | |
| 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, S'79 Addenda | |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:

No components to be included in this section for this report. | |
| 7. | Description of Work: Build Up pump feet for LPSI pump (S31204MP015/MP016) foot support, verify weld sizes and increase weld size as required.

Performed welds per the WRSA's and WFMCR's: | |
| | Pump I.D. | Weld I.D. |
| | S31204MP015 - Foot 1 | SA, SB, SC, SD, SE, SF, SG, SH, SI |
| | S31204MP015 - Foot 2 | SA, SB, SC, SD, SE, SF, SG, SH, SI |
| | S31204MP015 - Foot 3 | SA, SB, SC, SD, SE, SF, SG, SH, SI |
| | S31204MP016 - Foot 1 | SA, SB, SC, SD, SE, SF, SG, SH, SI |
| | S31204MP016 - Foot 2 | SA, SB, SC, SD, SE, SF, SG, SH, SI |
| | S21204MP016 - Foot 3 | SA, SB, SC, SD, SE, SF, SG, SH, SI |
| | VT-3 tests performed on both CWO's listed, per Procedure G-005, Rev. 5. | |
| 8. | Tests Conducted: 93050031000 - System Functional [X] Pressure: 500 psig Temp: N/A
93050032000 - System Functional [X] Pressure: 200 psig Temp: 74°F. | |

FORM NIS-2 (back)

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: Bert Y. Campos, Bechtel Field Const. Eng.
 Owner or Owner's Designee, Title

Date: 2/7, 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 10/1/93 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.

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

Date Feb. 8, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 2-4-94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

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

Unit: 3
CWO: 93050033000
FCN: F7374M
P&ID: 40114AS03
N-5: S3-1206-6

2. 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

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

4. Identification of System: Containment Spray (1206)

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, S'79 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:
No components to be included in this section for this report.

7. Description of Work: Build Up pump feet for Containment Spray pump (S31206MP012) feet support, verify weld sizes and increase weld size as required.

Performed welds per the WR5A's and WFMCR's:

Pump I.D.	Weld I.D.
S31206MP012 - Foot 1	SA, SB, SC, SD, SE, SF, SG, SH, SI
S31206MP012 - Foot 2	SA, SB, SC, SD, SE, SF, SG, SH, SI
S31206MP012 - Foot 3	SA, SB, SC, SD, SE, SF, SG, SH, SI

VT-3 tests performed, per Procedure G-005, Rev. 5.

8. Tests Conducted: 93050033000 - System Functional [X] Pressure: 245 psig Temp: N/A

FORM NIS-2 (back)

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

(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 Ben Y. Campo Bechtel Field Const. Mgr. Date: 2/7 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 9/7/93 to 2/5/94 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.

[Signature] Commissions 186-2 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Feb 8, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 2-4-94

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

As Required by the Provisions of the ASME Code Section XI

- | 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
CWO: 93050034000
FCN: F7374M
P&ID: 40114ASQ3
N-5: S3-1206-7 | | | | | | | | |
|----------------------|--|---|-----------|-----------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A | | | | | | | | |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | | | | | | | | | |
| 4. | Identification of System: Containment Spray (1206) | | | | | | | | | |
| 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, S'77 Addenda | | | | | | | | | |
| 6. | Identification of Components Repaired or Replaced and Replacement Components:

No components to be included in this section for this report. | | | | | | | | | |
| 7. | Description of Work: Build Up pump feet for Containment Spray pump (S31206MP013) feet support, verify weld sizes and increase weld size as required.

Performed welds per the WR5A's and WFMCR's:

<table border="0" style="width: 100%; margin-left: 20px;"> <thead> <tr> <th style="text-align: left;">Pump I.D.</th> <th style="text-align: left;">Weld I.D.</th> </tr> </thead> <tbody> <tr> <td>S31206MP013 - Foot 1</td> <td>SA, SB, SC, SD, SE, SF, SG, SH, SI</td> </tr> <tr> <td>S31206MP013 - Foot 2</td> <td>SA, SB, SC, SD, SE, SF, SG, SH, SI</td> </tr> <tr> <td>S31206MP013 - Foot 3</td> <td>SA, SB, SC, SD, SE, SF, SG, SH, SI</td> </tr> </tbody> </table>
VT-3 tests performed, per Procedure G-005, Rev. 5. | | Pump I.D. | Weld I.D. | S31206MP013 - Foot 1 | SA, SB, SC, SD, SE, SF, SG, SH, SI | S31206MP013 - Foot 2 | SA, SB, SC, SD, SE, SF, SG, SH, SI | S31206MP013 - Foot 3 | SA, SB, SC, SD, SE, SF, SG, SH, SI |
| Pump I.D. | Weld I.D. | | | | | | | | | |
| S31206MP013 - Foot 1 | SA, SB, SC, SD, SE, SF, SG, SH, SI | | | | | | | | | |
| S31206MP013 - Foot 2 | SA, SB, SC, SD, SE, SF, SG, SH, SI | | | | | | | | | |
| S31206MP013 - Foot 3 | SA, SB, SC, SD, SE, SF, SG, SH, SI | | | | | | | | | |
| 8. | Tests Conducted: 93050034000 - System Functional [X] Pressure: 225 psig Temp: N/A | | | | | | | | | |

FORM NIS-2 (back)

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

(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: Bert Y. Campos - Bechtel Field Const. Mgr. Date: 2/4, 1994
Owner or Owner's Designee, T.S.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) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9/9/93 to 2/5/94 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.

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

Date Feb. 5, 1994

ISI Engineer Review: Arum H. Mahindroo Kar Date: 2-4-94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93050055
93061877 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: 214-93
GEN-039
P&ID: 40113AS03 (C-5)
N-5: S3-1204-5 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Safety Injection | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Cases: 1516-1 | |
| | (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
12" Tilting Disc Check Valve	Anchor Darling	1N189	N/A	S31204MU027	1976	- - -	Yes
3/4" x 10 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 22678	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
3/4" x 10 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 37730	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

7. 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
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 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 6/24/93 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 the ASME Code, Section XI.

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

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|--|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Cases: 1516-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3
MO: 93050056
93061877</p> <p>RS: 209-93
GEN-039</p> <p>P&ID: 40113BSO3 (C-5)
N-5: S3-1204-3</p> <p>Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A</p> |
|--|--|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
12" Tilting Disc Check Valve	Anchor Darling	1N185	N/A	S31204MU031	1976	---	Yes
3/4" x 10 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 22678	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
3/4" x 10 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 3773C	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

7. 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
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13, 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 10/14/93 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.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan 14 1994

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 | Sheet 1 of 3
Unit: 3
CWO: 93051469000 93051505000
93051484000 93051508000 |
| | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: 3-6858.00-0
P&ID: 40112BSC3
N-5: S3-1204-35 |
| | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| | Identification of System: Safety Injection (1204) | |
| | (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, 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
Capacrew Cooler Supt.	Vitco	HT # AJJ	N/A	Item 3 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Nut, Cooler Supt.	Vitco	HT # X50	N/A	Item 4 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Stud, Flanges 1/2" x 2.75"	Vitco	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

7. Description of Work: Modify and install pump (P015) 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.
- SO23-405-28-6-3 & SO23-405-28-7-3 SA, SB, SC, SD, SE, SF, SG, SH, SJ, SN, SQ, SR
8. Tests Conducted: VT-2 on CWO 93051508000- System Functional [X] Pressure: 205 psig Temp: 68°F

FORM NIS-2 (back)

- 9. 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 reconciliation included in the NIS-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

Signed Bert Y. Campo - Bertel Field Unit Mgr. Date: 02/03, 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 9/7/93 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 inspection.

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

Date Feb 4, 1994

ISI Engineer Reviewer: Arun H. Mahindrakar Date: 1-27-94

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
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
(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:

Unit: 3
CWO: 93051469000 93051505000
93051484000 93051508000
DCP: 3-6858.00-0
P&ID: 40112B903
N-5: S3-1204-35
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Tubing 0.5"	Sandvik	HT # 462910	N/A	Item 21 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Pipe Coupling 0.5", SW 3000#	Camco	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 # MS349	N/A	Item 27 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Cooler Bracket	Ingersoll Dresser	SN # 2516-2C1	N/A	Item 28 CWO # 93051469000 RSO # 1897-93	N/A	Replacement	No
Cyclone Bracket	Ingersoll Dresser	SN # 2516-2B2	N/A	Item 30 CWO # 93051469000 RSO # 1897-93	N/A	Replacement	No
Capscrew, Cyl Bracket	Vitco	HT # A11	N/A	Item 31 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
U-Bolt, Cycl Brkt.	B&Q	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
Capscrew, Cooler Supp.	Vitco	HT # AJJ	N/A	Item 36 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Vibration Dampener	Florida Steel	HT # V02250	N/A	Item 38 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
U-Bolt Assembly, w/4 nuts	Vitco	HT # Nuta-MR93-1775 HT # Bolt-MR93-1773	N/A	Item 39 (2 ea) CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No

Sheet 3 of 3

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Safety Injection (1204)
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, S79 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Unit: 3
CWO: 93051469000 93051505000
93051484000 93051508000
DCP: 3-6858.00-0
P&ID: 401128903
N-5: S3-1204-35
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yea/No
Nut 62" Cooler Brkt	Vitco	HT # X50	N/A	Item 41 CWO # 93051469000 RSO # 0894-93	N/A	Replacement	No
Pipe 5" Sch. 80	Sandvik	HT # MS349	N/A	Item 43/12 CWO # 93051469000 RSO # 0894.93	N/A	Replacement	No
Pipe Coupling, 5", 3000#	Cameco	HT # FUI	N/A	Item 44 CWO # 93051469000 RSO # 3452-92	N/A	Replacement	No
LPSI Pump Retrofit Kit	Ingersoll-Rand	SN # 92P-10620	N/A	Item No Item # CWO # 93051505000 RSO # 0894-93	1993	Replacement	No

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 3
Unit: 3
CWO: 93051471000 93051507000
93051471001 93080291000
93051488000 93101742000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: 3-6858.00-0
P&ID: 401128903
N-5: S3-1204-36 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection (1204) | |
| 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, 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
Capscrew Cooler Supt.	Vitco	HT # AJJ	N/A	Item 3 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Nut. Cooler Supt.	Vitco	HT # X50	N/A	Item 4 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Stud. Flanges	Vitco	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

7. Description of Work: Prefab/modify/install LPSI Pump piping, mechanical seal, motor coupling, assemble motor to retrofit kit for Pump P016.

Perform welds per WR3/5A'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

8. Tests Conducted: VT-2 on CWO 93051488000- System Functional [X] Pressure: 200 psig Temp: 74°
VT-2 on CWO 93080291000- System Functional [X] Pressure 200 psig Temp: 74°

FORM NIS-2 (back)

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: R. Butz of Campos-Bertel Field Const. Corp. Date: 02/03, 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 Artwright 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 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 inspection.

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

Date Feb. 4, 1994

ISI Engineer Reviewer: Arun H. Mahindrakar Date: 1-27-94

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
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
(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:

Unit: 3
CWO: 93051471000 93051507000
93051471001 93080291000
93051488000 93101742000
DCP: 3-6858.00-0
P&ID: 40112BSC3
N-5: 83-1204-36
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Flange, S.W.	Ideal	HT # D4145	N/A	Item 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	HT # 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	Carco	HT # OW	N/A	Item 25 (2 ea) 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	Item 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
Capcrew, Cycl. Bracket	Vitco	HT # A11	N/A	Item 31 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
U-Bolt, Cycl. Bracket	B&G	HT # WAU	N/A	Item 33 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Nut-Cycl. Support	Vitco	HT # BAH	N/A	Item 34 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Capcrew, Cooler Supp.	Vitco	HT # AJJ	N/A	Item 36 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Vibration Damper	Florida Steel	HT # V0-2250	N/A	Item 38 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
CWO: 93051471000 93051507000
93051471001 93080291000
93051488000 93101742000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: 3-6858.00-0
P&ID: 40112B903
N-5: S3-1204-36 |
| 3. | Work Performed by: Bachtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Safety Injection (1204) | |
| 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, 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
U-Bolt Assembly with 4 Nuts	Vitco	HT # MR93-1773 HT # MR93-1775 (Nuts)	N/A	Item 39 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Cooler Brkt.	Vitco	HT # X50	N/A	Item 41 CWO # 93051471000 RSO # 0894-93	N/A	Replacement	No
Elbow, 45°, 3000#	Camco	HT # RA	N/A	Item 42 CWO # 93051471000 RSO # 0194-93	N/A	Replacement	No
Pipe, 5" Sch. 80	Sandvik	HT # M5349	N/A	Item 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 Connector	Swagelok	HT # N/A	N/A	Item 20, 37 CWO # 93051471001 RSO # 0894-93	N/A	Replacement	No
LPSI Pump Retrofit Kit	Ingersoll-Rand	SN # 92P-10619	N/A	Item: No It. # CWO # 93051507000 RSO # 0894-93	N/A	Replacement	No
U-Bolt	A&O Eng.	HT # NDB	N/A	Item 33 CWO # 93101742000 CR-1013-93 RSO # 2204-91	N/A	Replacement	No
Shim Plate, 1"	Hub, Inc.	HT # C6293	N/A	Item 35 CWO # 93101742000 CR-1014-93 RSO # 1751-93	N/A	Replacement	No

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
CWO: 93051524000
DCP: 3-6858.00
P&ID: 40112BSO3
N-5: S3-1204-12 |
| 2. | 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 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Containment Spray (1204) | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
Tubing, 1/4", .65 Wall S.S.	Sandvik Steel	HT # 5W610	N/A	Item 6 DWG # S3-1204-ML-999 RSO # 0879-92	N/A	Replacement	No

7. Description of Work:
 Modify tubing to adjust to revised elevation of cyclone cooler pump.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
 Pressure: 200 psig Temp: 74°F

FORM NIS-2 (back)

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

(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: Burt Y. Camps, Burt's Field Const. Mgr. Date: 2/4, 94
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 Aetna Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 12/7/93 to 2/8/94 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 inspection.

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

Date Feb. 5, 1994

ISI Engineer Review: Arun H. Mahindroo Date: 2-4-94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93072200
93101730 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: GEN-009, Rev. 3
268-93
P&ID: 40141DSO3 (G-4)
N-5: S3-1301-1 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Main Steam | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (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
6" x 10" Safety Valve	Crosby	N58737-00-0022	N/A	3PSV8406	1977	Replaced	Yes
6" 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

7. 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 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.

FORM NIS-2 (back)

9. 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

Signed: [Signature]
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 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.

[Signature]
Inspector's Signature

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

Date Jan 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|------------------------------|--|---|
| | | Sheet 1 of 1 |
| 1. Owner: | Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
CWO: 93080904000 93080905001
93080904001 93090430000
93080905000 |
| 2. Plant: | San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: 3-6742.07-0
P&ID: 401271803
N-5: N/A |
| 3. Work Performed by: | Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. Identification of System: | Component Cooling Water (1203) | |
| 5. (a) | Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, W'74 Addenda; ASME Section III, Class 2, 1974 Edition, W'75 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
Pipe Plug, 3/8"	Camco Fittings	HT # OX	N/A	Item 8 CWO # 93080904000 DWG # SO23-949-31-0 RSO # 2185-93	N/A	Replacement	No
Pipe Plug, 3/8"	Camco Fittings	HT # OX	N/A	Item 8 CWO # 93080904000 DWG # SO23-949-32-1 RSO # 2185-93	N/A	Replacement	No
Plug, 1/4"	Hub, Inc.	HT # OW	N/A	Item 7 (2 each) CWO # 93080904001 DWG # SO23-949-31-0 RSO # 3406-92	N/A	Replacement	No
Pipe Plug, 3/8"	Camco Fittings	HT # OX	N/A	Item 8 CWO # 93080905000 DWG # SO23-949-31-0 RSO # 2185-93	N/A	Replacement	No
Pipe Plug, 3/8"	Camco Fittings	HT # OX	N/A	Item 8 CWO # 93080905000 DWG # SO23-949-32-1 RSO # 2185-93	N/A	Replacement	No
Plug, 1/4"	Hub, Inc.	HT # OW	N/A	Item 7 (2 each) CWO # 93080905001 DWG # SO23-949-31-0 RSO # 3406-92	N/A	Replacement	No
Seal Disc Assembly	Valcor Engineer	SN # 5	N/A	CWO # 93090430000 DWG # S3-1203-ML-479 RSO # 2-P-3020-82	N/A	Replacement	No

7. Description of Work: Install new impeller; install, align and couple pumps S31203MP1018/1019. Includes installing code plugs in casing seal-water connection holes. Lapped valve seat and disc on solenoid valve 3HV6570, replaced seal disc assembly and lapped valve seat on 3HV6956.
8. Tests Conducted: VT-2 CWO 93080904000 - System Functional [X] Pressure: 94.5 psig Temp: N/A°F
 VT-2 CWO 93080905000 - System Functional [X] Pressure: 95.0 psig Temp: N/A°F

FORM NIS-2 (back)

9. Remarks: Documentation for items listed in Block 6 are available on site.
Per CWO 9308/904000/9308/905000, 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

Signed: Butch J. Campo - Buntel Field Const. Mgr. Date: FEB. 18, 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 Arteright 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 nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

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

Date FEB. 24, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 2-17-94

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93080938
RS: 228-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40112DSO3 (B-2)
N-5: S3-1204-31 |
| 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 1, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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
3" Tilting Disc Check Valve	Anchor Darling	1N348	N/A	S31204MU156	1978	---	Yes
1/2" x 13 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 16925	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
1/2" x 13 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 24848	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

7. 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
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: W. L. Lujan for ABIX
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: Feb. 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 1/16/93 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.

Robert Simpson
Inspector's Signature

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

Date Feb. 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93080939
RS: 229-93
P&ID: 40113ASO3
N-S: S3-1204-32 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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
3" Tilting Disc Check Valve	Anchor Darling	1N351	N/A	S31204MU152	1979	---	Yes
1/4" x 13 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 16925	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
1/4" x 13 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 24848	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

7. 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 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13, 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 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.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan 14 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93080940
RS: 226-93
P&ID: 40113ASO3 (C-4)
N-5: S3-1704-4 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Cases: 1516-1 | |
| | (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
12" Tilting Disc Check Valve	Anchor Darling	1N186	N/A	S31204MU029	1976	---	Yes
3/4" x 10 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 22678	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
3/4" x 10 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 37730	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

7. 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

8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13, 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 10/07/93 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.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan 14 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93080941
RS: 227-93
P&ID: 40113BSO3 (C-4)
N-5: S3-1204-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S73 Addenda, Code Cases: 1516-1 | |
| | (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
12" Tilting Disc Check Valve	Anchor Darling	1N192	N/A	S31204MU033	1976	- - -	Yes
1/4" x 10 Hinge Pin Cover Studs (8)	Nova Machine	Ht. 22678	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No
1/4" x 10 Hinge Pin Cover Nuts (8)	Nova Machine	Ht. 37730	N/A	RSO 1377-93 SA-453, Gr. 660B	N/A	Replacement	No

7. 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
8. Tests Conducted: System Leakage 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.

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *[Signature]* Supervising ASME Codes Engineer Date: 1/3 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 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.

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93081174
RS: 087-93, Rev. 1
P&ID: 40156BSO3 (B-1)
N-5: S3-1305-7 |
| 2. | Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. | Identification of System: Feedwater | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S75 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
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
1/4" φ Pipe Plug	Cardinal Ind.	Ht. Code JT1	N/A	RSO 3300-92	N/A	Replacement	No
1/4" φ Pipe Plug	Consolidated Power Supply	Ht. 014K	N/A	RSO 0918-93	N/A	Replacement	No

7. 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 1/4" NPT (from 1/2" NPT) and replacement 1/4" φ pipe plugs were installed in both the bonnet 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 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *W. M. Smith* Supervising ASME Codes Engineer Date: 1/4, 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 10/14/93 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.

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

Date Jan 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93081774
RS: 262-93
P&ID: 40113BSO3 (G-7)
N-5: S3-1204-8 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W73 Addenda, Code Cases: None | |
| | (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
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

7. 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

8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 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 1/11/93 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.

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

Date Jan. 14, 1994

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

As required by the Provisions of the ASME Code Section XI

- | | |
|--|---|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W73 Addenda, Code Cases: None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3
MO: 93081775
RS: 232-93
P&ID: 40113BSO3 (F-2)
N-5: S3-1204-9</p> <p>Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A</p> |
|--|---|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1" 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

7. 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
8. Tests Conducted: System Leakage System Functional 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 1/4 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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

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

Date Jan. 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93091444
RS: 231-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40124ASC3 (G-6)
N-5: S3-1208-12 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Chemical and Volume Control | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
Flange Connection @ Valve 31V0227A	Bechtel	N/A	N/A	S31208ML085	--	---	Yes
3/4" Studs (4)	A&G Engineering	Ht. Code IXA	N/A	RSO 0534-90 SA-193, Gr. B7	N/A	Replacement	No
3/4" Nuts (8)	A&G Engineering	Ht. Code LE	N/A	RSO 0534-90 SA-194, Gr. 2H	N/A	Replacement	No

7. Description of Work:
- The flange fasteners at flanged connection downstream of 31V0227A on line S31208ML085 were replaced in-kind.
8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *R. M. Huddell*
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 9-27-93 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.

R. Thompson
Inspector's Signature

Commissions

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

Date Dec. 28, 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 | Sheet 1 of 1
Unit: 3
MO: 93100554
RS: 261-93
P&ID: 40123ASO3
N-5: S3-1201-3-9 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | 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, S73 Addenda (Valve), 1974 Edition, S74 Addenda (Piping), Code Cases: None | |
| | (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
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" Sch. 160 Pipe	Consolidated Power Supply	Ht. 460163	N/A	RSO 3089-93	N/A	Replacement	No

7. Description of Work:

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

8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
 Pressure: 2289 psig 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/13 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 10/30/93 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.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan 14 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100613
RS: GEN-002, Rev. 3
P&ID: 40141ASO3 (F-7)
N-5: S3-1305-8 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Feedwater | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: 1644-5 | |
| | (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 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

7. 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.
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.

FORM NIS-2 (back)

9. Remarks: The replacement snubber is certified to ASME III, NF (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 Mischel Supervising ASME Codes Engineer Date: 2/14, 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 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 inspection.

C. Thompson Commissions 1962 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Feb. 15, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100614
RS: GEN-002, Rev. 3
P&ID: 40141ASO3
N-5: S3-1305-8 |
| 2. | Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. | Identification of System: Feedwater | |
| 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, 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 10-6	Pacific Scientific	15679	N/A	S3-FW-189-H-010T	---	Replaced	---
Mechanical Snubber PSA 10-6	Pacific Scientific	17971	N/A	RSO 1352-91	1991	Replacement	No

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.
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.

9. 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: W. L. S. [Signature] Supervising ASME Codes Engineer
 Owner or Owner's Designee, Title

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.

Howard L. Gaston
 Inspector's Signature

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

Date March 4, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100716
RS: GEN-002, Rev. 3
P&ID: 40141ASO3 (C-7)
N-5: S3-1305-7 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Feedwater | 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: 1644-5 | |
| | (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 10-6	Pacific Scientific	2250	N/A	S3FW190H014T	1977	Replaced	Yes
Mechanical Snubber PSA 10-6	Pacific Scientific	17979	N/A	PSO 1352-91	1991	Replacement	No

7. Description of Work:
- The mechanical snubber listed above was replaced in accordance with NCR 93100028 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.

FORM NIS-2 (back)

9. 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: [Signature] Supervising ASME Codes Engineer Date: 12/28, 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 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 1574 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date 12/29 19 93

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100719
RS: 250-93, Rev. 1
P&ID: 40123BSO3 (B-6)
N-5: S3-1208-14 |
| 2. | Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. | Identification of System: Chemical and Volume Control | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None
(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
4" Globe Valve	Kerotest	OS27-24	N/A	S31208MR247	1976	- - -	Yes
Valve Disc	Kerotest	AFP19-10	N/A	RSO 0893-92	1992	Replacement	Yes

7. Description of Work:
- The valve disc was replaced in the globe valve located in plant position S31208MR247.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other 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)

9. 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

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/26, 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 10/26/93 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 inspection.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Dec 29 1993

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | | |
|----|--|---------------------------------------|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100721
RS: 247-93 | P&ID: 40123ASO3 (H-2)
N-5: S3-1208-4 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: | N/A |
| 4. | Identification of System: Chemical and Volume Control | Authorization No: | N/A |
| | | Expiration Date: | N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None | | |
| | (b) 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
4" Globe Valve	Kerotest	OW17-1	N/A	S31208MR084	1976	Repaired	Yes
Disc	Kerotest	AEUB-5	N/A	RSO 2-P-2249-83	1983	Replacement	Yes

7. 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.

8. Tests Conducted: System Leakage System Functional 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 1/4 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 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

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

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 10/26/93 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.

[Signature]
Inspector's Signature

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

Date Jan 14 19 94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100722
RS: 239-93
P&ID: 40123BSO3
N-S: S3-1208-14 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Chemical and Volume Control | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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
1" Globe Valve	Kerotest	BAW13-10	N/A	S31208MR144	1981	---	Yes
Valve Disc	Kerotest	CBR2-58	N/A	RSO 2758-92	1992	Replacement	Yes

7. Description of Work:
- The valve disc was replaced in the globe valve located in plant position S31208MR144.
8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. 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

Signed: *Al Mitchell* Supervising ASME Codes Engineer Date: 1/13, 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 10/30/93 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.

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

Date: Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100726
RS: 249-93
P&ID: 40134DSO3 (G-5)
N-5: S3-1212-19 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Nuclear Sampling | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Instruction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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 Yr/No
1/4" 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
8. Tests Conducted: System Leakage System Functional 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 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 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

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/22, 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 10/23/93 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.

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

Date Jan. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100822
RS: 253-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40124BSO3 (B-7)
N-5: S3-1219-3 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Fuel Pool Cleaning and Makeup | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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
6" Swing Check Valve	Walworth/Aloyco	A1649	568	S31219MU052	1976	- - -	Yes
Valve Disc	Crane Aloyco Inc.	A5671	--	RSC 0666-88	1988	Repaired/ Replacement	Yes

7. Description of Work:
- 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
8. Tests Conducted: System Leakage System Functional 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.

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *[Signature]* Supervising ASME Codes Engineer Date: 1/22 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 10/24/93 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.

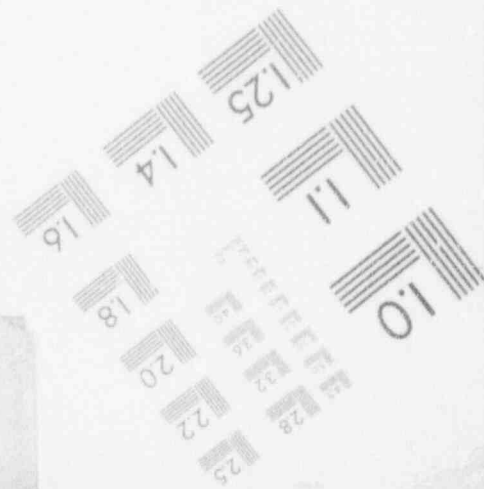
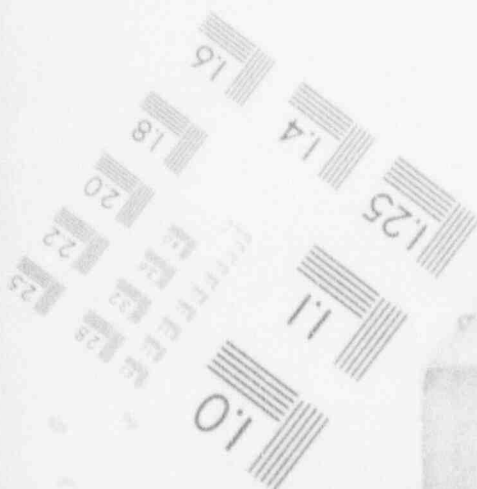
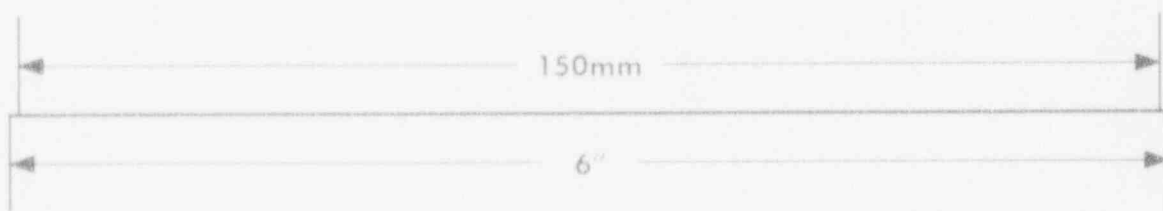
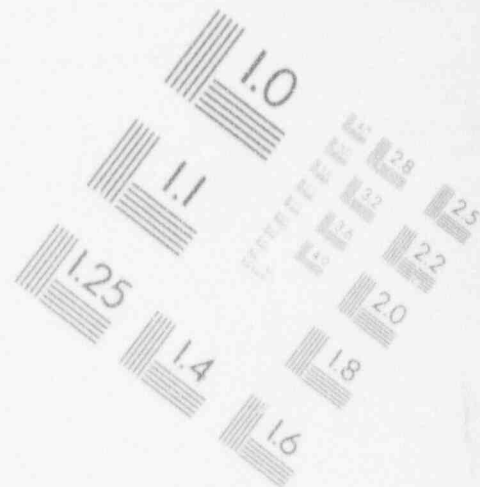
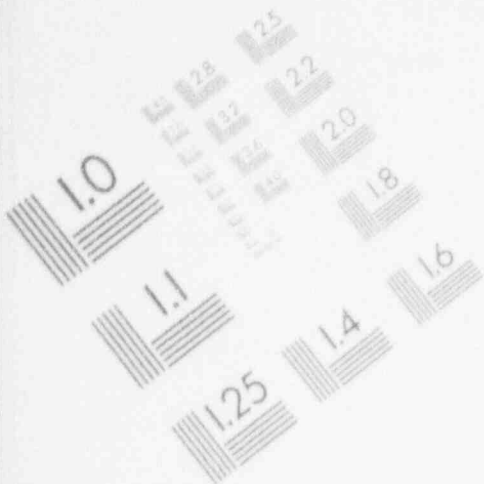
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury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

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

Date Jan. 25, 1994

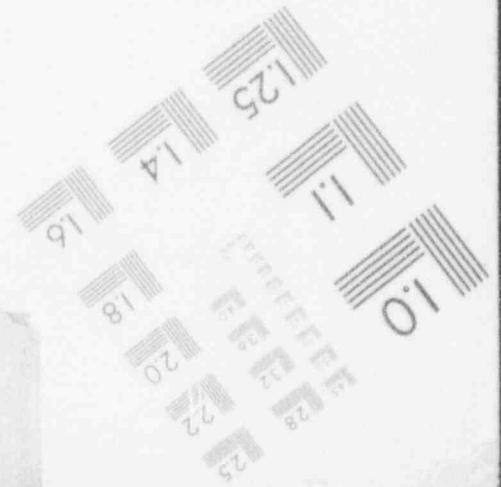
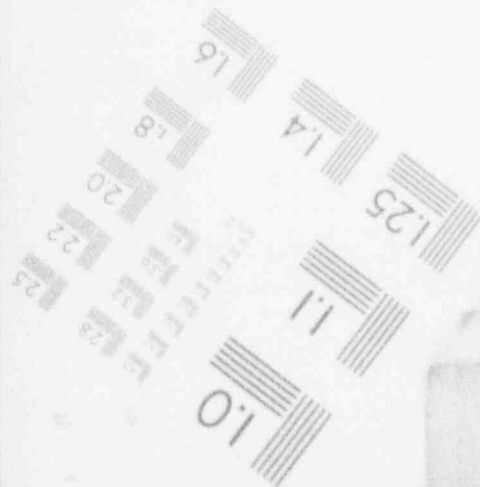
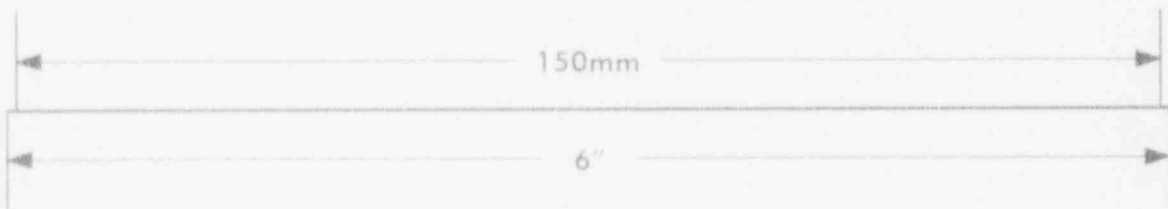
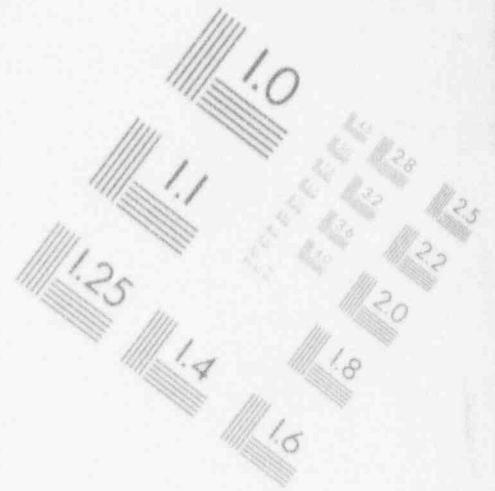
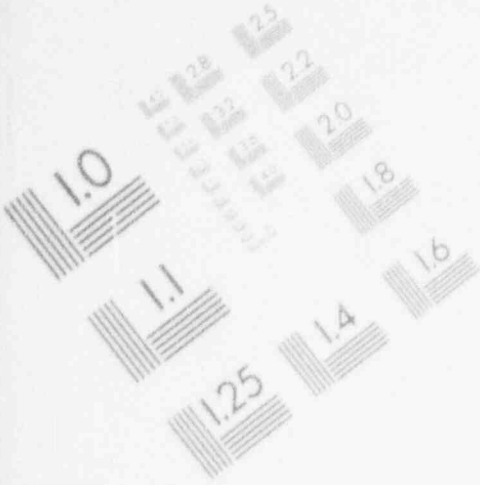
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IMAGE EVALUATION TEST TARGET (MT-3)



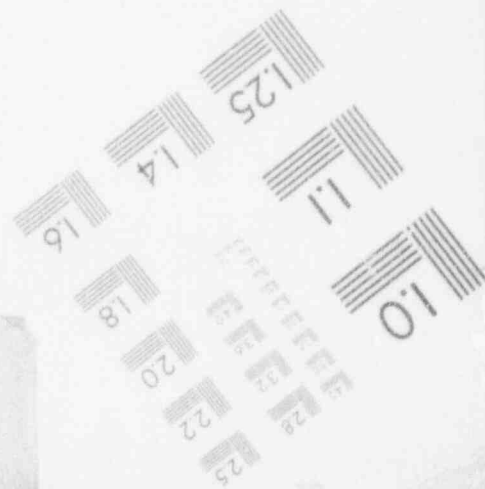
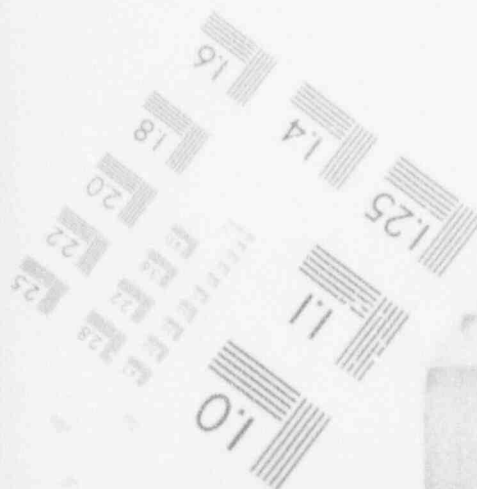
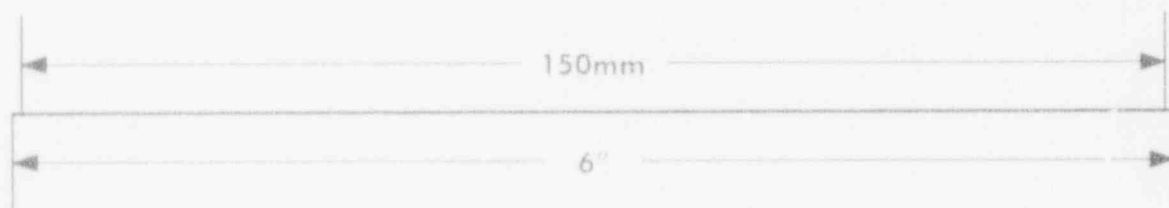
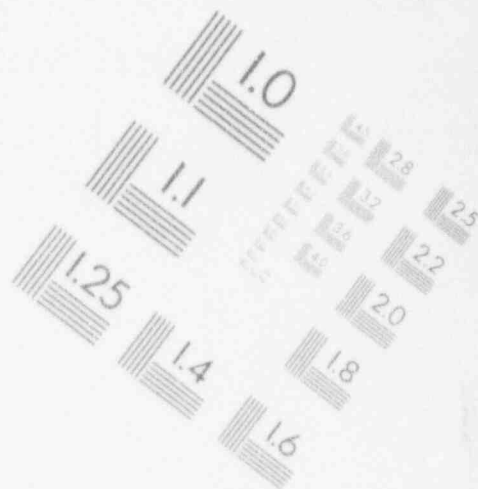
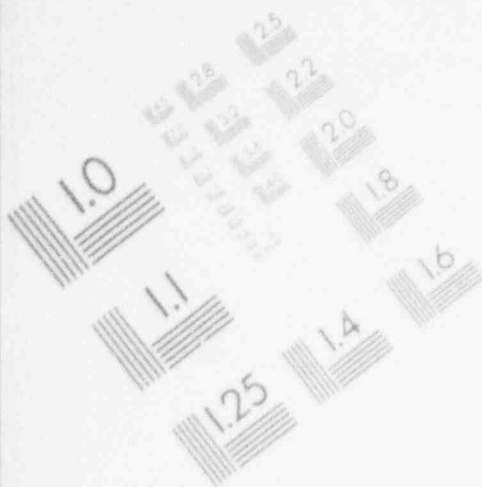
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IMAGE EVALUATION TEST TARGET (MT-3)



1

IMAGE EVALUATION TEST TARGET (MT-3)



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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southwest California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
CWO: 93100833000
93100962000
93110025000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: SC3/C7
P&ID: 40111AS03
N-5: S3-1201-3 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Steam (1301) | |
| 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, 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
Handhole Stud, 1", 8UNC-2A	PMC Industries	HT # 85689	N/A	Part No. 119-09 (1 ea) CWO # 93100833000 DWG # SO23-915-069 RSO # 2249-91	1974	Replacement	No
Handhole Stud Nut, 1" 8UNC-2B	PMC Industries	HT # 11472	N/A	Part No. 119-11 (1 ea) CWO # 93100833000 DWG # SO23-915-069 RSO # 2249-91	1980	Replacement	No
Manway Stud 1 1/2" 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, 1 1/2" 8N-2B	Combustion Eng.	HT # 16765-1	N/A	Part No. 119-12 (5 ea) Part No. 119-18 (1 ea) CWO # 93100962000 DWG # SO23-915-069 RSO # 3440-85	1985	Replacement	No
Manway Stud, 1 1/2" 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
Manway Stud Nut, 1 1/2" 8N-2B	Combustion Eng.	HT # 16765-1	N/A	Part No. 119-12 (3 ea) Part No. 119-18 (1 ea) CWO # 93110025000 DWG # SO23-915-069 RSO # 3440-85	1985	Replacement	No

7. Description of Work:
Replace handhold studs and nuts.
8. 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

FORM NIS-2 (back)

9. Remarks: Documentation for items listed in Block 6 are available on site.
CWO 93100833000 handhole studs reconciled to CR-91-0109, Rev. 0 and handhole nut to CR-91-0110, Rev. 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 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 Y. Campo, Bechtel Field Const. Mgr. Date: FEB 18, 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 10/19/93 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 nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

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

Date Feb. 24, 1994

ISI Engineer Review

Anim H. Mahindrakar

Date: 2-15-94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100845
RS: GEN-002, Rev. 3
P&ID: 40141ASO3 (C-3)
N-5: S3-1301-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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, 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 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

7. 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.
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.

FORM NIS-2 (back)

9. 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: [Signature]
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]
Inspector's Signature

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

Date 12/29 19 93

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93100907
RS: GEN-002, Rev. 3
P&ID: 40111BSO3 (F-4)
N-5: S3-1201-3-7 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Reactor Coolant | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (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 3-5	Pacific Scientific	29900	N/A	S3RC012H057	N/A	---	No
Load Pin	Pacific Scientific	Hr. N2609A	N/A	RSO 4129-85	N/A	Replacement	No

7. Description of Work:
- The snubber load pin was replaced and the pipe clamp realigned. 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

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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *A. Madell* Supervising ASME Codes Engineer Date: 1/5, 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 10-20-93 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.

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

Date Jan. 6, 1994

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

(As Required by the Provisions of the ASME Code Section XI)

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93100987
RS: GEN-002, Rev. 3
P&ID: 40124BSO3 (C-2)
N-5: S3-1208-5 |
| 2. | Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. | Identification of System: Chemical and Volume Control | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-4/5/7
(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 1/4-4	Pacific Scientific	37439	N/A	S3VC008H023	1986	Replaced	No
Mechanical Snubber PSA 1/4-4	Pacific Scientific	38643	N/A	RSO 2181-91	1991	Replacement	No

7. 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.
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.

FORM NIS-2 (back)

9. 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: [Signature]
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 10-21-93 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.

[Signature]
Inspector's Signature

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

Date Jan. 6, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93101215
RS: GEN-002, Rev. 3
P&ID: 40141ASO3 (F-7)
N-5: S3-1305-8 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Feedwater | 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: 1644-5 | |
| | (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 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

7. 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.
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.

FORM NIS-2 (back)

9. 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: *R. M. Hill* Supervising ASME Codes Engineer Date: 1/5, 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 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.

C. J. Thompson Commissions 1962 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date *J. C. Co.* 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93101216
RS: GEN-002, Rev. 3
P&ID: 40141A' J3 (F-7)
N-5: S3-1305-8 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Feedwater | 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: 1644-5 | |
| | (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 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

7. Description of Work:
- 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.
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.

FORM NIS-2 (back)

9. 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

Signed: *[Signature]* Supervising ASME Codes Engineer Date: 12/26, 19 93
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 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.

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

Date Dec 28, 19 93

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: -
MO: 93101314
RS: GEN-002, Rev. 3
P&ID: 40112ASD3 (C-2)
N-5: S3-1204-34 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety 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: 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 ¼	Pacific Scientific	36765	N/A	S3SI014H012	1985	Replaced	No
Mechanical Snubber PSA ¼	Pacific Scientific	38656	N/A	RSO 2181-91 Code Case 1644-4/5/7	1991	Replacement	No

7. 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.

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 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)

9. 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: *R. Meider*
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 10-23-94 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.

R. Thompson
Inspector's Signature

Commissions

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

Date Jan. 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93101357
RS: 254-93
P&ID: 40112ASO3 (C-3)
N-5: S3-1204-34 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: 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, 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
4" Globe Valve	Anchor 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

7. 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.
8. Tests Conducted: System Leakage System Functional 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 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. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: W. L. Saper for A. B. Miller, Supervising ASME Codes Engineer
 Owner or Owner's Designee, Title

Date: March 02, 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 10/24/93 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.

Cliff Simpson
 Inspector's Signature

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

Date March 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93101360
RS: GEN-002, Rev. 3
P&ID: 40112AS03
N-5: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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, 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 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

7. 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).
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 ¼ 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.

FORM NIS-2 (back)

9. 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: [Signature], Supervising ASME Codes Engineer Date: 12/26, 19 93
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 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.

[Signature] Commissions 1574 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date December 28 19 93

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | | |
|----|--|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93101532001
RS: 267-93 | |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40112DSO3 (B-4)
N-5: S3-1201-4 | |
| 3. | Work Performed by: 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 | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None | | |
| | (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
2" Y-Type Globe Valve	Kerotest	MC6-15	N/A	S31201MU114	1976	---	Yes
Valve Disc	Kerotest	AHG4-12	N/A	RSO 2-P-2669-83	N/A	Replacement	Yes

7. Description of Work:
- The valve disc was replaced in valve located in plant position S31201MU114.
-
-
8. Tests Conducted: System Leakage System Functional 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 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 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

Signed: *A. Mitchell* Supervising ASME Codes Engineer Date: 1/5, 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 10-31-93 to 1-4-94, 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.

A. Thompson Commissions 18C-2 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan 6, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93101625
RS: GEN-002, Rev. 3
P&ID: 40113BSO3
N-5: S3-1204-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (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 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

7. 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.
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/26, 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 10-31-93 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.

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|---|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Fuel Pool Cooling</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda (Valve), 1974 Edition, S74 Addenda (Pipe), Code Cases: None</p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p>Sheet 1 of 1</p> <p>Unit: 3</p> <p>MO: 93101679</p> <p>RS: 260-93</p> <p>P&ID: 40122BSO3 (D-5)</p> <p>N-5: S3-1219-4</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|--|---|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
¾" Globe Valve	Kerotest	YW15-19	N/A	S31219MR050	1979	Replaced	Yes
¾" Globe Valve	Kerotest	AHW2-4	N/A	RSO 4445-85	1985	Replacement	Yes
¾" ϕ SCH 40 Pipe	Sandvik	Ht. 462190	N/A	RSO 0995-93 SA-376, Tp 304	N/A	Replacement	No

7. Description of Work:
- A crack was found in the ¾" pipe nipple upstream of root valve S31219MR050. The nipple and valve were replaced in accordance with WR3-93-582 and NCR 93100141.
8. Tests Conducted: System Leakage System Functional 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 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.

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/8, 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 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 measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Feb. 9, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93101740
RS: GEN-002, Rev. 3
P&ID: 40113BSO3 (C-5)
N-5: S3-1204-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (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, 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 35	Pacific Scientific	12647	N/A	S3SI045H016T	1985	Replaced	No
Mechanical Snubber PSA 35	Pacific Scientific	12651	N/A	RSO 1099-91	1991	Replacement	No

7. 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.
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature]
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 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.

[Signature]
Inspector's Signature

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93101741
RS: 263-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | PI#ID: 40112DSC03 (A-4)
N-5: S3-1201-4 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Reactor Coolant | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (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
Welded Pipe Support	Bechtel	N/A	N/A	S3RC079H001	1982	Repaired	No

7. Description of Work:
- 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
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer

Date: 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 inspection.

Inspector's Signature

Commissions

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

Date Dec 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93101808
RS: 276-93
P&ID: 40111ASO3
N-5: S3-1201-3 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Reactor Coolant | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1, 1974 Edition, S75 Addenda, Code Cases: None | |
| | (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
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

7. 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
8. Tests Conducted: System Leakage System Functional System In-service 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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/22, 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 1/12/93 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.

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

Date Jan. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|---|--|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-4/5/7
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3
MO: 93101813
RS: GEN-002, Rev. 3
P&ID: 40113ASO3 (C-1)
N-5: S3-1204-4</p> <p>Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A</p> |
|---|--|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Mechanical Snubber PSA 3-5	Pacific Scientific	29891	N/A	S3SI044H004	1986	Replaced	No
Mechanical Snubber PSA 3-5	Pacific Scientific	30715	N/A	RSO 1890-91	1991	Replacement	No

7. 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).
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/8 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 10/30/93 to 2/9/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Feb. 9, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|---|--|--|
| 1 | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
CWO: 93101852000
93101852001 |
| 2 | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: 3-6863.00-0
P&ID: 40112BSO3
N-5: S3-1201-4 |
| 3 | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4 | Identification of System: Reactor Coolant (1201) | |
| 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, S'79 Addenda | |
| 6 | Identification of Components Repaired or Replaced and Replacement Components:

No equipment replaced on this NIS-2 | |
| 7 | Description of Work:

Repair linear indication on valve S31201MU994 to disposition NCR 93100159.01

Performed weld and and Radiographic Exam and Penetrant testing as required by the NCR.

CWO WELD ID.

93101852001 NCR 93100159 | |
| 8 | Tests Conducted: VT-2 performed as part of the original Traveler package SO3-93-001. | |

FORM NIS-2 (back)

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

(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: But V. Campo, Bental Steel Plant Mgr Date: 02/03, 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 10/31/93 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 inspection.

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

Date Feb. 4, 1994

ISI Engineer Review: Arum H. Malindrabar Date: 1-27-94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93110065
RS: GEN-002, Rev. 3
P&ID: 40112CSO3 (D-2)
N-5: S3-1204-5 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: 1644-5

(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	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

7. 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.
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 11/3 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 1/4/93 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.

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|---|--|
| 1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93110116
RS: 271-93
P&ID: 40134ASO3 (H-7)
N-S: S3-1212-5 |
| 2. Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. Identification of System: Nuclear Plant Sampling | |
| 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
3/4" 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
3/4" Bonnet Studs	Consolidated Power	Ht. Code H5	N/A	RSO 1419-93 SA-453, Gr. 660	N/A	Replacement	No
3/4" Bonnet Nuts	Nova Machine	Ht. 37730	N/A	RSO 1710-93 SA-453, Gr. 660B	N/A	Replacement	No

7. 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).
8. Tests Conducted: System Leakage System Functional 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 sheets is recorded at the top of this form.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: P. J. Holmes for A. B. Meichler
Supervising ASME Codes Engineer
Owner or Owner's Designee, Title

Date: 3/11, 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 11/5/93 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.

P. J. Holmes
Inspector's Signature

Commissions 1463 California
(National Board, State, Province, and Endorsements)

Date March 11, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: J
MO: 93110138
RS: 280-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40112CS03 (G-5)
N-5: S3-1204-13 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety 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, 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	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" Sch 160 Pipe	ABB	Ht. L33994	N/A	RSO 3199-93 SA-312, TP 304	N/A	Replacement	No

7. 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
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.

FORM NIS-2 (back)

9. Remarks: The replacement pipe clamp 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 [Signature] ABM
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date: Feb 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 1/13/93 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.

[Signature]
Inspector's Signature

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

Date Feb 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2344 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93110201
RS: 272-93
P&ID: 40124ASO3 (C-6)
N-5: S3-1208-8 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Chemical and Volume Control | Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, S73 Addenda, Code Cases: None | |
| | (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
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

7. Description of Work:
- The valve disc was replaced in the valve located in plant position S31208MU061.
-
-
8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. 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

Signed: [Signature] 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 11-6-93 to 11-17-94, 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.

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

Date Jan 17, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93110214
RS: 284-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | 289-93
P&ID: 40112ASO3 (C-2)
N-5: S3-1204-34 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Safety Injection | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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 ¼	Pacific Scientific	38656	N/A	S3SI014H012	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

7. 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 ¼ 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.

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 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)

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

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/8, 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 11/23/93 to 2/9/94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Feb. 9, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93110649
93110776 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | RS: GEN-002, Rev. 3
P&ID: 40114ASO3 (C-2)
N-5: S3-1206-1 |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Containment Spray | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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 %	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

7. Description of Work:
- 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.
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.

FORM NIS-2 (back)

- 9. 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: *[Signature]* Supervising ASME Codes Engineer Date: 1/22, 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 1/11/93 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.

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

Date Jan. 25, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93110824
RS: 282-93
P&ID: 40112ASO3 (B-6)
N-5: S3-1204-21 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | GEN-039
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 3. | Work Performed by: Southern California Edison Company | |
| 4. | Identification of System: Safety Injection | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S74 Addenda, Code Cases: None | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 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
24"φ 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

7. Description of Work:
- 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.
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
MT005 Level >80%

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: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/26, 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 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 inspection.

[Signature] Commissions 1864 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date Dec 29 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93110832
RS: GEN-002, Rev. 3
P&ID: 40112ASO3 (G-7)
N-5: S3-1204-21 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety 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: 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 10-6	Pacific Scientific	3474	N/A	S3SI003H017	1978	Replaced	No
Mechanical Snubber PSA 10-6	Pacific Scientific	17970	N/A	RSO 1352-91	1991	Replacement	No

7. 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).

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.

FORM NIS-2 (back)

9. 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: [Signature]
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 11/15/93 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)

Date

Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|---|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: ASME Section III, Class 1-NF, 1974 Edition, S74 Addenda, Code Cases: None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p align="right">Sheet 1 of 1</p> <p>Unit: 3
MO: 93110895
RS: 285-93
P&ID: 40111ASO3
N-5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A</p> |
|--|---|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
NW Support Link of RCP P004	Combustion Engineering	N/A	N/A	S31201MP004	--	Repaired	No

7. 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
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature], Supervising ASME Codes Engineer Date: 12/26, 1993
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 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 inspection.

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

Date Dec. 28, 1993

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
CWO: 93111108000 93111219000
93111108001 93111220000
93111150000 93111230001
93111157000 93111537000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: S03/C7
P&ID: 40141A303
N-5: S3-1305-8 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Condensate and Feedwater (1305) | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, 3'74 Addenda, 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 Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
Round Bar Plug	Consolidated Power Supply	HT # 656VNR	N/A	Item 15 CWO # 93111219000 DWG # S31305ML189 RSO # 3291-93	N/A	Replacement	No

7. Description of Work:
- Performed welds per the WR5/5A's and WFMCR's:
- | CWO | DWG # | WELD I.D. |
|-------------|-----------------------|-------------|
| 93111108001 | S3-1305-ML-189, Sht 2 | SBX, SBZ |
| 93111157000 | S3-1305-ML-189, Sht 2 | SBY, BJ, BH |
| 93111537000 | S3-1305-ML-189, Sht 2 | 93110118 |
8. Tests Conducted: VT-2 requirements met on CWO 93111157000 - System Leakage Pressure: 1000 psig Temp: 545°F

FORM NIS-2 (back)

9. 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

Certificates of Authorization No: N/A

Expiration Date: N/A

Signed: Bert Y. Campos - Bechtel Field Const. Mgr. Date: Feb 23, 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 11/21/94 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.

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

Date Feb 24, 1994

ISI Engineer Review: Amos H. Mahindrakar Date: 2-22-94

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|---|--|
| 1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MC: 93111195
RS: 288-93
P&ID: 40113ASO3
N-5: S3-1204-7 |
| 2. Plant: San Onofre Nuclear Generating Station
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
Expiration Date: N/A |
| 4. Identification of System: Safety Injection | |
| 5. (a) Applicable Construction Code: ASME Section III, Class 2, 1971 Edition, W73 Addenda, Code Cases: None
(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
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

7. 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)
8. Tests Conducted: System Leakage System Functional 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: A. B. Keichler Supervising ASME Codes Engineer
Owner or Owner Designee, Title

Date: March 02, 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 1/20/93 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 inspection.

Inspector's Signature

Commissions

1802 California
(National Board, State, Province, and Endorsements)

Date March 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93111311
RS: GEN-002, Rev. 3
P&ID: 40141DSO3
N-5: S3-1301-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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: 1644-5 | |
| | (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 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

7. Description of Work:
- The mechanical snubber load pin was replaced. The support assembly was visually examined (VT-3) following installation.
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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 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 1/2/93 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.

[Signature] Commission# 1862 California
 Inspector's Signature (National Board, State, Province, and Endorsements)

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93111494
RS: GEN-002, Rev. 3
P&ID: 40141ESO3 (F-7)
N-5: S3-1301-2 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Main Steam | 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: 1644 | |
| | (b) Applicable Edition of Section XI Utilized for Repairs or Replacement: 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	36785	N/A	S3ST002H061	1985	Replaced	No
Mechanical Snubber PSA 1/4	Pacific Scientific	38660	N/A	RSO 2181-91	1991	Replacement	No

7. 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).
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.

FORM NIS-2 (back)

9. 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

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

Date: Feb. 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 11/23/93 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: [Handwritten Signature]

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

Date: Feb. 2, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southwest California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
CWO: 93111786000 93111903000
93111786000 93111904000
93111810000 93111951000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | DCP: SC3/C7
P&ID: 40141A303
N-5: 83-1305-7 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Condensate and Feedwater (1305) | |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S-74 Addenda (Piping), 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
Round Bar Plug	Consolidated Power Supply	HT # 652VNR	N/A	Item 17 CWO # 93111951000 DWG # S3-1305-ML-190 RSO # 3291-93	N/A	Replacement	No

7. Description of Work: Cut/Remove spool 3-FW-190-6 and associated hardware from line S31305ML190 to rework Steam Generator Safe End, reinstall after rework; rework elbow in accordance with NCR 93110128; Remove Gamma Plug on line S31305ML190, reinstall with new weld I.D.. Repair safe end 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:

CWO	DWG #	WELD I.D.
93111786000	S3-1305-ML-190, Sht 2	BZ, BZ(R-1), BZ(R-2), SBY, SBZ, BY,
93111810000	S3-1305-ML-190, Sht 2	93110128
93111903000	S3-1305-ML-190, Sht 2	SCA

8. Tests Conducted: VT-2 for CWO 93111786000, System Leakage [X] Pressure: 1000 psig Temp: 545°F

FORM NIS-2 (back)

- 9. Remarks: Documentation for items listed in Block 6 are available on site.
CWO 93111951000, drawing 53-1305ML190, item 17, reconciled per 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 Date: N/A

Signed: Bert Y. Campo - Buechel Field Comit. Mgr. Date: FEB. 18, 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 11/25/94 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.

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

Date Feb. 24, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 2-17-94

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93111909
RS: 290-93 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | P&ID: 40111ASO3 (E-5)
N-5: S3-1201-10 |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | 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, W73 Addenda, Code Cases: None | |
| | (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
CEDM Housing Nut	Combustion Engineering	N/A	N/A	S31104CEDM	N/A	Repaired	No

7. Description of Work:
- On CEDM Housing #55, the housing nut was seal welded to the bail seal housing. A PT examination was performed on the completed weld.
- References: NCR 93110145, WR3-93-653
8. Tests Conducted: System Leakage 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.

FORM NIS-2 (back)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer

Date: 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 1/29/93 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 inspection.

[Signature]
Inspector's Signature

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

Date Jan. 14, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
CWO: 93111208000
93111208001
93112099001
DCP: 3-6863.00-0
P&ID: 40112BS03
N-5: S3-1206-1 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | |
| 4. | Identification of System: Containment Spray (1206) | |
| 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, 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
Disk (Stem Assembly)	Control Components	SN # M534560	N/A	Item 3 DWG # S023-408-24-3-3 RSO # 3339-93	1993	Replacement	No

7. Description of Work:
- Disassemble and rework valve S31206MU104 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 Pressure: 350 psig Temp: 75.8°F

FORM NIS-2 (back)

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

(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: Butch Campo - Bechtel Field Const. Mgr. Date: 2/4 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 4/3/93 to 2/3/94 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.

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

Date Feb 3, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 2-4-94

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 1
Unit: 3
MO: 93112103
RS: GEN-002, Rev. 3
P&ID: 40141ASO3 (F-7)
N-5: S3-1305-8 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Feedwater | 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, 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 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

7. 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 1/2 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)

9. 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: [Signature], Supervising ASME Codes Engineer Date: 1/14, 19 94
 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 11/30/93 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.

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

Date Jan. 17, 19 94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
MO: 93120130
RS: 293-9,
P&ID: 40113 ASO3 (G-6)
N-5: S3-12(4-6) |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | |
| 3. | Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A |
| 4. | Identification of System: Safety Injection | Authorization No: N/A
Expiration Date: 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, 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
3/4" x .065 Tubing	Trent Tube	973003	N/A	FGD-J3-PT-0311	1982	- - -	No
3/4" x .065 Tubing	Sandvik Steel Co.	Ht. SW705	N/A	RSO 2953-93 SA-213, TP. 316	N/A	Replacement	No
Tubing Tee	Parker Hannifin Corp.	Ht. Code GBYH	N/A	RSO 2370-93 SA-182, TP 316	N/A	Replacement	No

7. Description of Work:
- A section of tubing and a tubing tee located between pressure transmitters 3PT0312 and 3PT0313 were replaced.
- Reference: NCR 93120003
8. Tests Conducted: System Leakage System Functional System Inservice Hydrostatic Pneumatic Other
- Pressure: 618 psia Temp: N/A

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

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer

Date: Feb. 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 10/3/93 to 2/1/94, 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.

[Signature]
Inspector's Signature

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

Date Feb. 1, 1994

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|---|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128</p> <p>4. Identification of System: Shutdown Cooling System (1201)</p> <p>5. (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</p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p>Sheet 1 of 8</p> <p>Unit: 3</p> <p>Traveler: SO3-93-001</p> <p>CWO: 93032459000
93080872000
93080872001</p> <p>DCP: 3-6863.00SN</p> <p>P&ID: 40112BSO3 & 40114ASO3</p> <p>N-5: S3-1201-4</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|--|---|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1"x1"x1" Tee BW Sch. 40s	Hub Inc.	HT # E5	N/A	Item 6 ISO # S3-1201-ML-045 Sht. 1 RSO # 2693-93	N/A	Replacement	No

7. Description of Work:

Verify code materials, fabricate & install piping & hangers per Dwgs. S3-1201-ML-045 Sht. 1, S3-1201-ML-134 Sht. 1, S3-1201-ML-321 Sht. 1 thru 4, S3-1201-ML-322 Sht. 1, S3-1201-ML-323 Sht. 1, S3-RC-017-H-084, S3-RC-134-H-006, S3-RC-134-H-008, S3-RC-321-H-004 & S3-RC-321-H-008.

Performed the following welds in accordance with WR-5/5A's and WFMC's.

Drawing	Welds
S3-1201-ML-045 Sht. 1	F(C-1), G(C-1), H, SJ
S3-1201-ML-134 Sht. 1	MA, MB, MC, MD, SC, S, T, U, SD
S3-1201-ML-321 Sht. 1	F, Q, R, S, T, U, V, W, W(R-1), X, Y, Z, MA, SMQ, MR, SMS
S3-1201-ML-321 Sht. 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-321 Sht. 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
S3-1201-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
S3-1201-ML-323 Sht. 1	A, B, C, D(C-2), E, F(C-1)
S3-RC-017-H-084	HA, HB
S3-RC-134-H-006	HA, HB
S3-RC-134-H-008	HA, HB
S3-RC-321-H-004	SA, SB, SC, SD
S3-RC-321-H-008	SA, SB, SC, SD

8. Tests Conducted: VT-2 - Hydrostatic at 142.5 psig @ 71.4°F
 VT-2 - Hydrostatic at 546 psig @ 71.4°F
 VT-3 - per procedure G005 - Rev. 5

FORM NIS-2 (back)

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

(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: Bert Y. Campos - Berntel Field Cont. mgr. Date: March 7, 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 3/17/93 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.

[Signature] Commissions 1262 California
Inspector's Signature (National Board, State, Province, and Endorsements)

Date March 7, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 3-4-94

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: 3
Traveler: SO3-93-001
CWO: 93032459000
93080872000
93080872001
DCP: 3-6863.008N
P&ID: 40112BSO3 & 40114ASO3
N-5: S3-1201-4 |
| 2. | 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 | |
| 4. | Identification of System: Shutdown Cooling System (1201) | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 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, 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"x3/4" Swage Sch. 40s	Consolidated Power	HT # P84STNA	N/A	Item 7 ISO # S3-1201-ML-045 Sht. 1 RSO # 2436-93	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 21 ISO # S3-1201-ML-134 Sht. 1 RSO # 2273-93	N/A	Replacement	No
10"x10"x10" Tee BW Sch. 20	Consolidated	HT # LIEH-1	N/A	Item 22 ISO # S3-1201-ML-134 Sht. 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 # S3-1201-ML-134 Sht. 1 RSO # 2010-93	N/A	Replacement	No
3/4" Pipe Nipple 4" LG BOExPOE	Sandvik	HT # SW 773	N/A	Item 25 ISO # S3-1201-ML-134 Sht. 1 RSO # 2010-93	N/A	Replacement	No
10"x3/4" Weldolet Sch. 40	WFI	HT # 691VNA2	N/A	Item 26 ISO # S3-1201-ML-134 Sht. 1 RSO # 2248-93	N/A	Replacement	No
3/4" 90° Elbow BW Sch. 40	Taylor Forge	HT # LGFD-1	N/A	Item 27 ISO # S3-1201-ML-134 Sht. 1 RSO # 2263-93	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 3 - 7, 9 ISO # S3-1201-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	N/A	Replacement	No
10" 90° Elbow BW Sch. 20	Taylor Forge	HT # LIYC-1	N/A	Item 14, 15, 17 ISO # S3-1201-ML-321 Sht. 1 RSO # 2263-93	N/A	Replacement	No
10" 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 16 ISO # S3-1201-ML-321 Sht. 1 RSO # 2263-93	N/A	Replacement	No
10"x3/4" Weldolet Sch. 40s	WFI	HT # 540TNA	N/A	Item 60 ISO # S3-1201-ML-321 Sht. 1 RSO # 0305-93	N/A	Replacement	No

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Shutdown Cooling System (1201)

Unit: 3
Traveler: SO3-93-001
CWO: 93032459000
93080872000
93080872001
DCP: 3-6863.005N
P&ID: 40112BSO3 & 40114ASO3
N-5: S3-1201-4

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda; 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
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Pipe Nipple 3" LG PBE Sch. 40s	Sandvik	HT # SW 773	N/A	Item 61 ISO # S3-1201-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 # S3-1201-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 # S3-1201-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 # S3-1201-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 # S3-1201-ML-321 Sht. 2 RSO # 2263-93	N/A	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 # S3-1201-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 # S3-1201-ML-321 Sht. 2 RSO # 2263-93	N/A	Replacement	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 # S3-1201-ML-321 Sht. 2 RSO # 0305-93	N/A	Replacement	No
3/4" Pipe Nipple 5" LG BOE x POE Sch. 40s	Sandvik	HT # SW 773	N/A	Item 29 ISO # S3-1201-ML-321 Sht. 2 RSO # 2010-93	N/A	Replacement	No

Sheet 4 of 8

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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

Unit: 3
Traveler: SO3-93-001
CWO: 93032459000
93080872000
93080872001
DCP: 3-6863.008N
P&ID: 40112BSO3 & 40114ASO3
N-5: S3-1201-4

4. Identification of System: Shutdown Cooling System (1201)

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

5. (a) Applicable Construction Code: ASME Section III, Class 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, 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" Pipe Nipple 5" LG BOExPOE	Sandwick Steel	HT # 461879	N/A	Item 30 ISO # S3-1201-ML-321 Sht. 2 RSO # 2010-93	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 37 ISO # S3-1201-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	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 2 ISO # S3-1201-ML-321 Sht. 3 RSO # 2281-93	N/A	Replacement	No
8" Pipe Sch. 20	Trent Tube	HT # 130465W	N/A	Item 4, 5 ISO # S3-1201-ML-321 Sht. 3 RSO # 2321-93	N/A	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	N/A	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	N/A	Replacement	No
12" Pipe Sch. 20	Trent Tube	HT # Y6942S	N/A	Item 16 - 19 ISO # S3-1201-ML-321 Sht. 3 RSO # 2321-93	N/A	Replacement	No
12" Pipe Sch. 20	Trent Tube	HT # 2B186	N/A	Item 20 ISO # S3-1201-ML-321 Sht. 3 RSO # 2321-93	N/A	Replacement	No
10" 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LFYC-2	N/A	Item 21 ISO # S3-1201-ML-321 Sht. 3 RSO # 2263-93	N/A	Replacement	No
8" 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LFYA-1	N/A	Item 22, 23, 24 ISO # S3-1201-ML-321 Sht. 3 RSO # 2263-93	N/A	Replacement	No
12" 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LIGJ-1	N/A	Item 25, 26 ISO # S3-1201-ML-321 Sht. 3 RSO # 2390-93	N/A	Replacement	No

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

2. 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

Unit: 3
Traveler: SO3-93-001
CWO: 93080872000
93080872001
DCP: 3-6863.00SN
P&ID: 40112BSO3 & 40114ASO3
N-5: S3-1201-4

4. Identification of System: Shutdown Cooling System (1201)

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

5. (a) Applicable Construction Code: ASME Section III, Class 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, 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
12" 90° Elbow BW Sch. 20	Taylor Forge	HT # LIUK-1	N/A	Item 27, 28, 29 ISO # S3-1201-ML-321 Sht. 3 RSO # 2313-93	N/A	Replacement	No
10" 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 30 ISO # S3-1201-ML-321 Sht. 3 RSO # 2263-93	N/A	Replacement	No
10"x8"Ecc. Reducer BW Sch. 20	Taylor Forge	HT # LIYN-1	N/A	Item 31 ISO # S3-1201-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	N/A	Replacement	No
12"x1"Weldolet Sch. 40s	WFI	HT # 988 SNA	N/A	Item 33 ISO # S3-1201-ML-321 Sht. 3 RSO # 0305-93	N/A	Replacement	No
1" Pipe Nipple 5" LG BBE Sch. 40s	Sandvik	HT # 461879	N/A	Item 34 ISO # S3-1201-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 # S3-1201-ML-321 Sht. 3 RSO # 2263-93	N/A	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	N/A	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	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 1, 2, 3, 5, 6, 7 ISO # S3-1201-ML-321 Sht. 4 RSO # 2281-93	N/A	Replacement	No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 4 ISO # S3-1201-ML-321 Sht. 4 RSO # 2273-93	N/A	Replacement	No
10" 90° Elbow BW Sch. 20	Taylor Forge	HT # LIYC-1	N/A	Item 9, 11 ISO # S3-1201-ML-321 Sht. 4 RSO # 2263-93	N/A	Replacement	No

- | | | | | |
|----|---|---|-------------------------|---|
| 1. | Owner: | Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: | 3 |
| | | | Traveler: | SO3-93-001 |
| 2. | Plant: | San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | CWO: | 93032459000
93080872000
93080872001 |
| 3. | Work Performed by: | Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | DCP: | 3-6863.00SN |
| | | | P&ID: | 40112BSO3 & 40114ASO3 |
| | | | N-5: | S3-1201-4 |
| 4. | Identification of System: | Shutdown Cooling System (1201) | Type Code Symbol Stamp: | N/A |
| | | | Authorization No.: | N/A |
| | | | Expiration Date: | N/A |
| 5. | (a) | Applicable Construction Code: ASME Section III, Class 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, 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
10" 90° SR Elbow BW Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 10 ISO # S3-1201-ML-321 Sht. 4 RSO # 2263-93	N/A	Replacement	No
12"x10"Ecc Reducer Sch. 20	Taylor Forge	HT # LIUK-1	N/A	Item 13 ISO # S3-1201-ML-321 Sht. 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 # S3-1201-ML-322 Sht. 1 RSO # 2321-93	N/A	Replacement	No
8" 90° Elbow BW Sch. 20	Taylor Forge	HT # LIYA-1	N/A	Item 10 ISO # S3-1201-ML-322 Sht. 1 RSO # 2263-93	N/A	Replacement	No
10"x8"Concentric Reducer BW Sch. 20	Taylor Forge	HT # LIYN-1	N/A	Item 18 ISO # S3-1201-ML-322 Sht. 1 RSO # 2263-93	N/A	Replacement	No
8"x3/4" Weldolet Sch. 40s	WFI	HT # 691VNA2	N/A	Item 19 ISO # S3-1201-ML-322 Sht. 1 RSO # 2248-93	N/A	Replacement	No
3/4" Pipe Sch. 40s	Sandvik	HT # SW 773	N/A	Item 1, 2, 3 ISO # S3-1201-ML-323 Sht. 1 RSO # 2010-93	N/A	Replacement	No
3/4" 90° Elbow BW Sch. 40s	Flowline	HT # 89697	N/A	Item 4 ISO # S3-1201-ML-323 Sht. 1 RSO # 2230-93	N/A	Replacement	No
3/4" 90° Elbow BW Sch. 40s	Taylor Forge	HT # LGFD-1	N/A	Item 5 ISO # S3-1201-ML-323 Sht. 1 RSO # 2263-93	N/A	Replacement	No
3/4" Flange 150# RFWN Sch. 40s	Hub	HT # D4230	N/A	Item 6 ISO # S3-1201-ML-323 Sht. 1 RSO # 2437-93	N/A	Replacement	No
1/2" Stud Bolts 2-3/4" LG	Cardinal	HT # E5	N/A	Item 7 ISO # S3-1201-ML-323 Sht. 1 RSO # 0849-93	N/A	Replacement	No

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Shutdown Cooling System (1201)
5. (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, S'79 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Unit: 3
Traveler: S03-93-001
CWO: 93032459000
93080872000
93080872001
DCP: 3-6863.008N
P&ID: 40112BSO3 & 40114ASO3
N-S: S3-1201-4
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1/2" Hex Nuts	Nova Machine	HT # 8079541	N/A	Item 8 ISO # S3-1201-ML-323 Sht. 1 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 # A5524-Bracket	N/A	Item 63A (2 ea) 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	N/A	Replacement	No
3552RR1 Rear Bracket	Lisega	HT # A5524	N/A	Item 63 (2 ea) DWG # S3-RC-134-H-008 RSO # 2479-93	N/A	Replacement	No
1"x2"x6"Lug SS	Allegheny	HT # 856791	N/A	Item 38 (2 ea) 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 # S3-RC-321-H-008 RSO # 0453-93	N/A	Replacement	No
3/4" Gate Valve SW	Vogt	SN # 6-216845	N/A	Item 8 (S31201MR229) ISO # S3-1201-ML-045 Sht. 1 RSO # 2048-93	1993	Replacement	Yes
10" Gate Valve BW	Control Components	SN # 610291-6-1	N/A	Item 23 (S31201MU994) ISO # S3-1201-ML-134 Sht. 1 RSO # 1229-93	1993	Replacement	Yes
3/4" Gate Valve SW	Vogt	SN # 18-216845	N/A	Item 28 (S31201MR233) ISO # S3-1201-ML-134 Sht. 1 RSO # 2048-93	1993	Replacement	Yes
10" Gate Valve BW	Control Components	SN # 610291-4-2	N/A	Item 59 (S31201MU993) ISO # S3-1201-ML-321 Sht. 1 RSO # 1982-93	1993	Replacement	Yes
3/4" Gate Valve SW	Vogt	SN # 8-216845	N/A	Item 62 (S31201MR231) ISO # S3-1201-ML-321 Sht. 1 RSO # 2048-93	1993	Replacement	Yes

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Shutdown Cooling System (1201)
5. (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, S'79 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

Unit: 3
Traveler: SO3-93-001
CWO: 93032459000
93080872000
93080872001
DCP: 3-6863.00SN
P&ID: 40112BSO3 & 40114ASO3
N-5: S3-1201-4
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
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
1" Gate Valve SW	Vogt	SN # 7-215457	N/A	Item 32 (S31201MR232) ISO # S3-1201-ML-321 Sht. 2 RSO # 1592-87	1987	Replacement	Yes
1" 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 (S31201MU992) ISO # S3-1201-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 # S3-1201-ML-323 Sht. 1 RSO # 0349-93	1993	Replacement	Yes

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 3
Unit: 3
Traveler: 903-93-002
CWO: 93080872000
93080872001
93032459000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | MMP: 3-6863 00
P&ID: 40112BSO3 & 40114BSO3
N-5: S3-1206-1 |
| 3. | Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 4. | Identification of System: Containment Spray (1206) | |
| 5. | (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 "NC", 1974 Edition, S'74 Addenda (Dummy Pipe), 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 | |
| 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" Half Coupling 3000#	Consolidated	HT # 832VNA	N/A	Item 35, 37 ISO # S31206ML001 RSO # 2436-93	N/A	Replacement	No
3/4 Thermowell	Conax	HT # AH6056	N/A	Item 36, 38 ISO # S31206ML001 RSO # 1077-93	N/A	Replacement	No
3/4 Half Coupling 3000#	Consolidated	HT # 832VNA	N/A	Item 29 ISO # S31206ML002 RSO # 2436-93	N/A	Replacement	No
3/4" Thermowell	Conax	HT # AH6056	N/A	Item 30 ISO # S31206ML002 RSO # 1077-93	N/A	Replacement	No

7. Description of Work: Modify lines S31206ML032 and ML033 to accommodate new heat exchanger block valves, and Lines S31206ML001 and ML002 to add thermocouples. Also install code portion of pipe support S3-CS-009-H-009.

Performed welds per the WR5/5A's and WFMCRs:

ISO #	WELD I.D.
S3-1206-ML-001	SG, SH, SJ, SK
S3-1206-ML-002	SMA, SMB, SMC, SMD
S3-1206-ML-032	MA, MB, MC, MD
S3-1206-ML-033	G, H, J, K, SMA, SMB, SMC
S3-CS-032-H-009	SA, HA, HB, HC

VT-3 performed in accordance with Procedure G-005, Rev. 5

8. Tests Conducted: VT-2 Hydrostatic Pressure: 775 psig Temp: 71.4°F, per CWO 93032459000

FORM NIS-2 (back)

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

(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: Ben J. Jones - District Field Maint. Mgr.
Owner or Owner's Designee, Title

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 California, and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1/6/93 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.

Cliff Hampton
Inspector's Signature

Commissions

1862

California

(National Board, State, Province, and Endorsements)

Date March 7, 1994

ISI Engineer Review: Arun H. Mahindrakar

Date: 3-4-94

- | | | | | |
|----|---|---|-------------------------|---|
| 1. | Owner: | Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: | 3 |
| | | | Traveler: | SO3-93-002 |
| 2. | Plant: | San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | CWO: | 93080872000
93080872001
93032459000 |
| | | | MMP: | 3-6863.00 |
| 3. | Work Performed by: | Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | P&ID: | 40112BSO3 & 40114BSO3 |
| | | | N-5: | S3-1206-1 |
| 4. | Identification of System: | Containment Spray (1206) | Type Code Symbol Stamp: | N/A |
| | | | Authorization No.: | N/A |
| | | | Expiration Date: | N/A |
| 5. | (a) | Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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 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" Half Coupling 3000#	Consolidated	HT # 832VNA	N/A	Item 31 ISO # S31206ML002 RSO # 2436-93	N/A	Replacement	No
3/4" Thermowell	Conax	HT # AH6056	N/A	Item 32 ISO # S31206ML002 RSO # 1077-93	N/A	Replacement	No
12" 90° Elbow, Sch. 20	Taylor Forge	HT # LBK-1	N/A	Item 56 ISO # S31206ML032 RSO # 2351-93	N/A	Replacement	No
12" 90° Elbow, Sch. 20	Taylor Forge	HT # LBK-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 # S31206ML032 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 # S31206ML033 RSO # 2436-93	N/A	Replacement	No
12" Weldolet, Sch. 40s	WFI	HT # 540TNA	N/A	Item 56 ISO # S31206ML033 RSO # 0305-93	N/A	Replacement	No
3/4" Pipe Nipple BOExPOE, Sch. 40s	Sandvik	HT # SW773	N/A	Item 57 ISO # S31206ML033 RSO # 2010-93	N/A	Replacement	No

Sheet 3 of 3

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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

Unit: 3
Traveler: 803-93-002
CWO: 93080872000
93080872001
93032459000
MMP: 3-6863.00
P&ID: 40112BSO3 & 40114BSO3
N-5: S3-1206-1

4. Identification of System: Containment Spray (1206)

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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 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" Dummy Pipe Sch. 40	Trent Tube	HT # 120329	N/A	Item 30 ISO # S3CS032H009 RSO # 0913-93	N/A	Replacement	No
1/2" Plate	Bethlehem Steel	HT # 402E9811	N/A	Item 31 ISO # S3CS032H009 RSO # 0357-93	N/A	Replacement	No
Rigid Strut 3942RR1	Lisega	HT # R422D	N/A	Item 61 ISO # S3CS032H009 RSO # 2479-93	N/A	Replacement	No
Rear Bracket 3542RR1	Lisega	HT # Bolts-Z56 HT # Bracket-AS524	N/A	Item 63 (2 ea) DWG # S3CS032H009 RSO # 2479-93	N/A	Replacement	No
3/4" Gate Valve S31206MR073	Vogt	SN # 13-216845	N/A	Item 58 ISO # S31206ML033 RSO # 2048-93	1993	Replacement	Yes

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 7
Unit: 3
Traveler: SQ3-93-003
CWO: 93032459000
93080872000
93080872001
MMP: 3-6863.00
P&ID: 40114A
N-5: S3-1204-21 |
| 2. | 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 | |
| 4. | Identification of System: Safety Injection (1204) | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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 | |
| 6. | Identification of Components Repaired or Replaced and Replacement Components: | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
10" Pipe Sch. 20	Trent Tube	HT # 712101	N/A	Item 1, 2 ISO # S3-1201-ML321 RSO # 2273-93	N/A	Replacement	No
8" Pipe Sch. 20	Trent Tube	HT # 130465W	N/A	Item 10, 11 ISO # S3-1201-ML321 RSO # 2321-93	N/A	Replacement	No
16" Pipe Sch. 20	Trent Tube	HT # 1B926	N/A	Item 12 ISO # S3-1201-ML321 RSO # 2321-93	N/A	Replacement	No
10" 90° Elbow, Sch. 20	Taylor Forge	HT # LIYC-2	N/A	Item 13 ISO # S3-1201-ML321 RSO # 2263-93	N/A	Replacement	No

7. Description of Work: Tie-in Line S3-1201-ML-321 to CS Pumps Suction Lines S3-1204-ML-003/004. Also install Code portions of pipe supports S3-SI-004-H-036 and S3-SI-004-H-037.

Performed welds per the WR5/5A's and WFMCR's:

ISO #	WELD I.D.
S3-SI-004-H-036	HA, HB
S3-SI-004-H-037	HA, HB
S3-1201-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
S3-1201-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
S3-1204-ML-003, SHT. 2	NQ, NR, SNS,

8. Tests Conducted: Per CWO 93091659000(Spacer Plates) - Hydrostatic [X] Pressure: 141 psig Temp: 79.8°F
Per CWO 93032459000(LPSI/Cross-Tie on Containment Spray System) Hydrostatic [X], pressure 142.5 psig, Temp: 71.4°F
VT-3's per procedure G-005, Rev. 5 for Hangers

FORM NIS-2 (back)

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

(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 Bert H. Simpson, Bert H. Simpson Mfg. Date: March 7, 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 10/29/93 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.

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

Date March 7, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 3-7-94

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Safety Injection (1204)

Sheet 2 of 7

Unit: 3
Traveler: 903-93-003
CWO: 93032459000
93080872000
93080872001
MMP: 3-6863.00
P&ID: 40114A
N-5: S3-1204-21

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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
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
14" 90° Elbow, Sch 20	Taylor Forge	HT # LIYM-1	N/A	Item 18 ISO # S3-1201-ML321 RSO # 2263-93	N/A	Replacement	No
16"x14" Reducer, Sch 20	Taylor Forge	HT # LJCQ-1	N/A	Item 19 ISO # S3-1201-ML321 RSO # 2674-93	N/A	Replacement	No
10"x8" Ecc Reducer, Sch 20	Taylor Forge	HT # LIYN-1	N/A	Item 20 ISO # S3-1201-ML321 RSO # 2263-93	N/A	Replacement	No
8" Flange, 150#, Sch 20	Hub	HT # D4370	N/A	Item 21, 22 ISO # S3-1201-ML321 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 # S3-1201-ML321 RSO # 2351-93	N/A	Replacement	No
16"x8" Weldolet, Sch. 20	WFI	HT # 451VNE	N/A	Item 25 ISO # S3-1201-ML321 RSO # 2248-93	N/A	Replacement	No
16"x3/4" Weldolet, Sch 40s	WFI	HT # 691VNAZ	N/A	Item 26 ISO # S3-1201-ML321 RSO # 2248-93	N/A	Replacement	No
16"x1" Weldolet, Sch. 40s	WFI	HT # 691VNAZ	N/A	Item 27 ISO # S3-1201-ML321 RSO # 2248-93	N/A	Replacement	No

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Safety Injection (1204)

Sheet 3 of 7

Unit: 3
Traveler: 903-93-003
CWO: 93032459000
93080872000
93080872001
MMP: 3-6863.00
P&ID: 40114A
N-5: S3-1204-21

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
8" Flange 150#, Sch. 20	Hub	HT # D4370	N/A	Item 28, 29 ISO # S3-1201-ML321 CR 2000-93 RSO # 2437-93	N/A	Replacement	No
3/4" Stud Bolts	Cardinal	HT # H6	N/A	Item 30 ISO # S3-1201-ML321 RSO # 0824-93	N/A	Replacement	No
3/4" Hex Nuts	Cardinal	HT # H2	N/A	Item 31 ISO # S3-1201-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 # S3-1201-ML321 RSO # 2010-93	N/A	Replacement	No
1" 90° Elbow, Sch. 40s	Taylor Forge	HT # LIMQ-1	N/A	Item 37 ISO # S3-1201-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 # S3-1201-ML321 RSO # 2693-93	N/A	Replacement	No
3/4" 90° Elbow, Sch. 40s	Flowline	HT # 89697	N/A	Item 39 ISO # S3-1201-ML321 RSO # 2230-93	N/A	Replacement	No
3/4" Flange 150#, Sch. 40s	Hub	HT # D4230	N/A	Item 40 ISO # S3-1201-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

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Safety Injection (1204)

Sheet 4 of 7

Unit: 3
Traveler: SO3-93-003
CWO: 93032459000
93080872000
93080872001
MMP: 3-6863.00
P&ID: 40114A
N-5: S3-1204-21

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
1/2" 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 # S3-1201-ML321 RSO # 2010-93	N/A	Replacement	No
14" Pipe, Sch. 20	Trent Tube	HT # 130461W	N/A	Item 1, 2 ISO # S3-1201-ML322 RSO # 2321-93	N/A	Replacement	No
8" Pipe, Sch. 20	Trent Tube	HT # 130465W	N/A	Item 3, 4 ISO # S3-1201-ML322 RSO # 2321-93	N/A	Replacement	No
14" 90° Elbow, Sch 20	Taylor Forge	HT # LIYM-1	N/A	Item 7 ISO # S3-1201-ML322 RSO # 2263-93	N/A	Replacement	No
8" 90° Elbow, Sch. 20	Taylor Forge	HT # LIYA-2	N/A	Item 8, 9 ISO # S3-1201-ML322 RSO # 2313-93	N/A	Replacement	No
14" Flange 150#, Sch. 20	WFI	HT # 896VNE	N/A	Item 11 ISO # S3-1201-ML322 RSO # 2351-93	N/A	Replacement	No
8" Flange 150#, Sch 20	Hub	HT # D4370	N/A	Item 12 ISO # S3-1201-ML322 CR 2000-93 RSO # 2437-93	N/A	Replacement	No

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Safety Injection (1204)

Sheet 5 of 7
Unit: 3
Traveler: SO3-93-003
CWO: 93032459000
93080872000
93080872001
MMP: 3-6863.00
P&ID: 40114A
N-5: S3-1204-21

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
8" 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 # 451VNE	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 # S3-1201-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" LG 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. 40s	Sandvik	HT # 461879	N/A	Item 25 ISO # S3-1201-ML322 RSO # 2010-93	N/A	Replacement	No
1" 90° Elbow, Sch 40s	Taylor Forge	HT # LIMQ-1	N/A	Item 26 ISO # S3-1201-ML322 RSO # 2263-93	N/A	Replacement	No

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Safety Injection (1204)

Sheet 6 of 7
Unit: 3
Traveler: SO3-93-003
CWO: 93032459000
93080872000
93080872001
MMP: 3-6863.00
P&ID: 40114A
N-5: S3-1204-21

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S*74 Addenda (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
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" Stud Bolts	Cardinal	HT # HG	N/A	Item 34 ISO # S3-1201-ML322 RSO # 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 # S3-1201-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 # S3-SI-004-H-036 RSO # 2568-93	N/A	Replacement	No
1" Dia. Pipe Strap	Grinnell	HT # B-089	N/A	Item 67 ISO # S3-SI-004-H-037 RSO # 2624-93	N/A	Replacement	No
1" Gate Valve S31204MU192	Vogt	SN # 17-215457	N/A	Item 57 ISO # S3-1201-ML321 RSO # 1592-87	1987	Replacement	Yes
3/4" Gate Valve S31204MR206	Vogt	SN # 3-216845	N/A	Item 68 ISO # S3-1201-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 # S3-1201-ML321 RSO # 1475-93	1993	Replacement	Yes
1" Gate Valve S31204MR389	Vogt	SN # 6-215457	N/A	Item 28 ISO # S3-1201-ML322 RSO # 1592-87	1987	Replacement	Yes

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Safety Injection (1204)

Sheet 7 of 7

Unit: 3
Traveler: SO3-93-003
CWO: 93032459000
93080872000
93080872001
MMP: 3-6863.00
P&ID: 40114A
N-5: S3-1204-21

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

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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
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" Gate Valve S31204MR083	Vogt	SN # 17-216845	N/A	Item 29 ISO # S3-1201-ML322 RSO # 2048-93	1993	Replacement	Yes
1" Gate Valve S31204MU193	Vogt	SN # 2-215457	N/A	Item 61 ISO # S3-1204-ML003 RSO # 1592-87	1987	Replacement	Yes

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 2
Unit: 3
Traveler: 903-93-004
CWO: 93032459000
93080872001
93080872001
MMP: 3-6863.00
P&ID: 40112B
N-5: S3-1204-12 |
| 2. | 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 | |
| 4. | Identification of System: Containment Spray (1204) | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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, 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
12"x1"Weldolet, Sch. 40s	Consolidated Power	HT # 832VNA	N/A	Item 19 ISO # S31204ML038 RSO # 2436-93	N/A	Replacement	No
1" Pipe Nipple, B.B.E. Sch. 40s	Sandvik	HT # 461879	N/A	Item 20 ISO # S31204ML038 RSO # 2010-93	N/A	Replacement	No
1" 90° Elbow, Sch. 40s	Taylor Forge	HT # LIMQ-1	N/A	Item 21 ISO # S31204ML038 RSO # 2263-93	N/A	Replacement	No
1" Pipe Nipple, Sch. 40s	Sandvik	HT # 461879	N/A	Item 22 ISO # S31204ML038 RSO # 2010-93	N/A	Replacement	No
3/4" Half Coupling 3000#	Consolidated Power	HT # 832VNA	N/A	Item 107 ISO # S31204ML038 RSO # 2436-93	N/A	Replacement	No
3/4" Thermowell (3TI-0310)	Conax	HT # AH6056	N/A	Item 108 ISO # S31204ML038 RSO # 1077-93	N/A	Replacement	No

7. Description of Work: Modify Line S3-1204-ML-038 to add Heat Exchanger Block Valves and Thermocouples.

Performed Welds per WRS/WRSA's and WFMCR's:

Iso #	Weld I.D.
S31204ML038, Sht. 7	SGA, SGB, TG, TH, TJ, GS, GT, GU, GV, GW, GX, GY, GZ, TA, TB, TC, TD, TE, TF
S31204ML038, 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 S31204ML038, Pressure 775 Psig, Temp: 71.4°F

FORM NIS-2 (back)

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

(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: Bert Y. Campos, B. cited Field/Genl. Insp. Date: March 7, 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 11/7/93 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.

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

Date March 7, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 3-4-94

- | | | | | |
|----|---|--|-------------------------|-------------|
| 1. | Owner: | Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Unit: | 3 |
| | | | Traveler: | 903-93-004 |
| | | | CWO: | 93032459000 |
| 2. | Plant: | San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | | 93080872000 |
| | | | | 93080872001 |
| | | | MMP: | 3-6863.00 |
| 3. | Work Performed by: | Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | P&ID: | 40112B |
| | | | N-5: | S3-1204-12 |
| 4. | Identification of System: | Containment Spray (1204) | Type Code Symbol Stamp: | N/A |
| | | | Authorization No: | N/A |
| | | | Expiration Date: | N/A |
| 5. | (a) | Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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, 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
12" Pipe, Sch. 20	Trent Tube	HT # C38244E	N/A	Item 8, 9 ISO # S31204ML038 RSO # 2321-93	N/A	Replacement	No
14" Pipe, Sch. 20	Trent Tube	HT # 713692J	N/A	Item 10, 11 ISO # S31204ML038 RSO # 0913-93	N/A	Replacement	No
14" 90° Elbow	Taylor Forge	HT # LIYM-1	N/A	Item 12 ISO # S31204ML038 RSO # 2263-93	N/A	Replacement	No
12" Tee, Sch. 20	Taylor Forge	HT # LIUK-1	N/A	Item 13 ISO # S31204ML038 RSO # 2263-93	N/A	Replacement	No
14"x12" Reducer Conc. Sch. 20	Taylor Forge	HT # LIYM -1	N/A	Item 14, 15, 16 ISO # S31204ML038 RSO # 2263-93	N/A	Replacement	No
1" Gate Valve S21204MR444	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 S31204MU367	Control Components, Inc.	SN # 610291-2-2	N/A	Item 18 ISO # S31204ML038 RSO # 1229-93	1993	Replacement	Yes

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

As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|--|--|
| 1. | Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770 | Sheet 1 of 4
Unit: 3
Traveler: 903-93-006
CWO: 93032459000
93080872000
93080872001
93091266000 |
| 2. | Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128 | MMP: 3-6863.008N
P&ID: 40112B, 40114B
N-5: S3-1206-1 |
| 3. | Work Performed by: Bachtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128 | |
| 4. | Identification of System: Containment Spray System (1206) | Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A |
| 5. | (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S'74 Addenda (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 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
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 # S3-1206-ML-063 RSO # 2263-93	N/A	Replacement	No
8" 90° Elbow Sch. 20	Taylor Forge	HT # LIYA-2	N/A	Item 15 ISO # S3-1206-ML-063 RSO # 2313-93	N/A	Replacement	No
8" 45° Elbow Sch. 20	Taylor Forge	HT # LIYA-1	N/A	Item 16 ISO # S3-1206-ML-063 RSO # 2263-93	N/A	Replacement	No

7. Description of Work:
- Verify code materials, fabricate & install piping & hangers per Dwg's S3-1206-ML-063 Sht. 1, S3-1206-ML-003 Sht. 2, S3-1206-ML-004 Sht. 1, S3-CS-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, G, H, J, K, L, M, N, P, Q, Q(R-1), R, S, T, U, V, W, X, Y, Z, |
| S3-1206-ML-003 Sht. 2 | MA, MB, MC, SMD, SME, MF, MG, MH, SMJ, ML |
| S3-1206-ML-004 Sht. 1 | ND, NE, KA, SBO, SBH |
| | MN, MP, MQ, SSJ, SSL |
| S3-CS-053-H-004 | SA, SB, SC, SD |
| S3-CS-063-H-001 | SA, SB, SC, SD, SE, SF, SG, SH |
8. Tests Conducted: VT-2 performed on Test CWO 93032459000 to 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
VI-3 - per procedure G005 - Rev. 5

FORM NIS-2 (back)

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

(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: Bert Y. Camps - Bechtel Field Civil Engr. Date: March 7, 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 Artwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/22/93 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.

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

Date March 7, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 3-4-94

Sheet 2 of 4

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Containment Spray System (1206)
5. (a) 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 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:

Unit: 3
Traveler: 903-93-006
CWO: 93072125000 93072126000
93072127000 93072128000
93080384000 93080778000
MMP: 3-6863.008N
P&ID: 40112B, 40114B
N-5: S3-1206-1
Type Code Symbol Stamp: N/A
Authorization No.: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3" Tee Sch. 20	Taylor Forge	HT # LIYA-2	N/A	Item 17, 18 ISO # S3-1206-ML-063 RSO # 2263-93	N/A	Replacement	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
1" 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 # S3-1206-ML-063 RSO # 2263-93	N/A	Replacement	No
8"x1" Weldolet Sch. 40s	WFI	HT # 691VNA2	N/A	Item 27 ISO # S3-1206-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 Sch. 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 # S3-1206-ML-063 RSO # 2263-93	N/A	Replacement	No
3/4" Nipple BBE Sch. 40s	Sandvik	HT # SW 773	N/A	Item 34 ISO # S3-1206-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 # S3-1206-ML-063 RSO # 2010-93	N/A	Replacement	No
7/8" Stud Bolt Continuous Thread	Cardinal	HT # E5	N/A	Item 40 ISO # S3-1206-ML-063 RSO # 0751-93	N/A	Replacement	No

Sheet 3 of 4

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128
3. Work Performed by: Bexetal Construction Company
P.O. Box 450
San Clemente, CA 92674-0128
4. Identification of System: Containment Spray System (1206)
5. (a) 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 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:

Unit: 3
Traveler: 503-93-006
CWO: 93072125000 93072126000
93072127000 93072128000
93080384000 93080778000
MMP: 3-6863.008N
P&ID: 40112B, 40114B
N-5: S3-1206-1
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
7/8" Hex Nut	Cardinal	HT # H2	N/A	Item 41 ISO # S3-1206-ML-063 RSO # 0751-93	N/A	Replacement	No
8" Flange 300#	Consolidated Power	HT # 896 VNE	N/A	Item 42 ISO # S3-1206-ML-063 RSO # 2373-93	N/A	Replacement	No
8"x3/4" Weldolet Sch. 40s	Consolidated Power	HT # 832 VNA	N/A	Item 16 ISO # S3-1206-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 # S3-1206-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 # S3-1206-ML-004 RSO # 2436-93	N/A	Replacement	No
8"x3/4" Weldolet Sch. 40s	Consolidated Power	HT # 832VNA	N/A	Item 24 ISO # S3-1206-ML-004 RSO # 2436-93	N/A	Replacement	No
3/4" Pipe Nipple BOExPOE Sch. 40s	Sandvik	HT # SW 773	N/A	Item 25 ISO # S3-1206-ML-004 RSO # 2010-93	N/A	Replacement	No
Lug 1" SS	Consolidated Power	HT # 858350	N/A	Item 38 (2 ea) ISO # S3-CS-053-H-004 RSO # 2356-93	N/A	Replacement	No
Lug 1" SS	Consolidated Power	HT # 858350	N/A	Item 38 ISO # S3-CS-063-H-001 RSO # 2356-93	N/A	Replacement	No
Lug 1" SS	Allegheny Ludlum Steel	HT # 856791	N/A	Item 38 (3 ea) ISO # S3-CS-063-H-001 RSO # 0453-93	N/A	Replacement	No
8" Globe Valve	CCI	SN # 610291-10-1	N/A	Item 21 (S31206MU104) ISO # S3-1206-ML-063 RSO # 1111-93	1993	Replacement	Yes

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770
2. 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
4. Identification of System: Containment Spray System (1206)
5. (a) 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 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:

Unit: 3
Traveler: SC3-93-006
CWO: 93072125000 93072126000
93072127000 93072128000
93080384000 93080778000
MMP: 3-6863.00SN
P&ID: 40112B, 40114B
N-5: S3-1206-1
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
8" Gate Valve	CCI	SN # 610291-8-1	N/A	Item 22 (S31206MU105) ISO # S3-1206-ML-063 RSO # 1111-93	1993	Replacement	Yes
8" Gate Valve	CCI	SN # 610291-8-2	N/A	Item 23 (S31206MU106) ISO # S3-1206-ML-063 RSO # 1526-93	1993	Replacement	Yes
1" 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 (S31206MR074) ISO # S3-1206-ML-003 RSO # 2048-93	1993	Replacement	Yes
3/4" Gate Valve	Vogt	SN # 2-216845	N/A	Item 26 (S31206MR075) ISO # S3-1206-ML-004 RSO # 2048-93	1993	Replacement	Yes

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

- | | |
|---|--|
| <p>1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue, Rosemead, CA 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station
P.O. Box 128, San Clemente, CA 92674-0128</p> <p>3. Work Performed by: Bechtel Construction Company
P.O. Box 450
San Clemente, CA 92674-0128</p> <p>4. Identification of System: Auxiliary Sampling System (1212)</p> <p>5. (a) Applicable Construction Code: ASME Section III, Subsection NF, 1974 Edition, S'74 Addenda, Code Cases: None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1977 Edition, S'79 Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components:</p> | <p>Sheet 1 of 1</p> <p>Unit: 3</p> <p>Traveler: SO3-93-007</p> <p>CWO: 93072301000</p> <p>MMP: 3-6863 008N</p> <p>P&ID: 40112503</p> <p>N-j: S3-1212-15</p>
<p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|---|--|

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped Yes/No
3/4" Pipe Strap	Corinnell	HT # B089	N/A	Item 67 CWO # 93072301 RSO # 0409-93	N/A	Replacement	No

7. Description of Work:
Modify existing pipe support S3-S5-001-R-ONK. Performed welds HA, HB per the WR-5A/WFMCR's.
8. VT-3 - per procedure G005 - Rev. 5

FORM NIS-2 (back)

9. Remarks: Documentation ~~for~~ items listed in Block 6 are available on site.

(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: Ben Campa - Bechtel Field Const. Mgr. Date: 01-26, 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 Artwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 8/27/93 to 1/27/94 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.

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

Date Jan. 27, 1994

ISI Engineer Review: Arun H. Mahindrakar Date: 1-24-94

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

As Required by the Provisions of the ASME Code Section XI

Sheet 1 of 1

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

Unit: 3
Traveler: SO3-93-009
MO: 93110631
RS: 279-93
P&ID: 4011AS03
N-5: S3-1201-3

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

3. Work Performed by: B&W Nuclear Services

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

4. Identification of System: Reactor Coolant

5. (a) Applicable Construction Code: ASME Section III, Class 1, 1971 Edition, S71 Addenda, Code Cases: None

(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
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 56, N06690	N/A	Replacement	No

7. Description of Work:

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.

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)

9. Remarks: None

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: *[Signature]* Supervising ASME Codes Engineer Date: 1/22, 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 1/10/93 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.

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

Date Jan. 25, 1994