

10 ATTACHMENT- 2

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/8/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 06/08/00 to 02/09/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code <u>ASME Section III, Class 1, 1971 Edition, S.'71 Addenda</u>; Code Case: <u>None</u></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3 CWO: 00011577000 Rspec: GEN-105s PID: 40141ASO3 (F5) N5: S3-1201-3</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|---|

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | CE | 72270-2 | 22265 | S31301ME088 | 1977 | — | Yes |
| 1"-8N-2A x 6" Handhole Stud (1) | ABB Combustion Engineering | Ht. #85689 | N/A | RSO-2991-91, SA193 B7 (CR-2001-93) | N/A | Replacement | No |
| 1"-8N-2B Handhole Nut (1) | ABB Combustion Engineering | Ht. #11472 | N/A | RSO-2991-91, SA193 B7 (CR-2001-93) | N/A | Replacement | No |

7. Description of Work:

The hand hole cover without instrument on Steam Generator S31301ME088 was removed and reinstalled. (1) each stud and (1) each nut (in location #10) were replaced with in-kind replacement bolting.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-14

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

FORM NIS-2 (back)

9. Remarks: CR-2001-93 reconciles the replacement bolting which was certified to ASME III-1, '74 Ed., W.'74 Add. (stud); ASME III-1, '80 Ed., W.'82 Add. (nut).

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/7/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 2/24/00 to 2/8/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 8, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 CWO: 00011659000
 Rspec: GEN-105s
 PID: 40141ASO3 (C5)
 N5: S3-1201-3
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
3. Work Performed by: Southern California Edison Company
 Type Code Symbol Stamp: N/A
 Authorization No: N/A
 Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III, Class 1, 1971 Ed., S.'71 Addenda; Code Case: None
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Editon. No Addenda

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | CE | 72270-1 | 22264 | S31301ME089 | 1977 | — | Yes |
| Secondary Manway Stud 1 1/2"-8N-2A x 9" (2) | ABB Combustion Engineering | Ht. #82158, Tr. Code J-6391 | N/A | RSO-0925-96, SA540 B24, Class 3 | N/A | Replacement | No |
| Secondary Manway Nut 1 1/2"-8N-2B (2) | Nova Machine Products | Ht. #73265-32-2, Ht. Code RZW | N/A | RSO-1076-00, SA193 B7 | N/A | Replacement | No |

7. Description of Work:

The west secondary manway on steam generator S31301ME089 was removed and reinstalled. (2) each manway cover studs and (2) each manway cover nuts (location #1 and #2) were replaced with in-kind replacement bolting.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-15

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/7/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 3/3/00 to 2/8/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 8, 2001

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|---|--|
| 1. Owner: Southern California Edison Company 2244 Walnut Grove Avenue Rosemead, California 91770 | Unit: 3 CWO: 00011662000 Rspec: GEN-150s PID: 40141ASO3 (F5) N5: S3-1201-3 |
| 2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012 | |
| 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 <u>ASME Section III, Class 1, 1971 Ed., S.'71 Addenda</u> ; Code Case: None | |
| 5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Editon, No Addenda</u> | |

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | CE | 72270-2 | 22265 | S31301ME088 | 1977 | — | Yes |
| 1 1/2"-8N-2A x 9" Manway Stud (1) | ABB Combustion Engineering | Ht. #82158, Tr. Code J-6391 | N/A | RSO-0925-96, SA540 B24, Class 3 | N/A | Replacement | No |
| 1 1/2"-8N-2B Manway Nut (1) | ABB Combustion Engineering | Ht. #73265-32-2, Ht. Code RZW | N/A | RSO-1076-00, SA193 B7 | N/A | Replacement | No |

7. Description of Work:

The East Secondary Manway cover on Steam Generator S31301ME088 was removed and reinstalled. (1) each stud and (1) each nut (in location #16) were replaced with in-kind replacement bolting.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-14

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/7/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 3/13/00 to 2/8/00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 8, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> | <p>Unit: 3 MO: 00021309000 Rspec: ASME SECTION XI DATA-0460 P&ID: 40124BSO3 (H2) N-5: S3-1208-5</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|---|
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda; Code Case: None
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

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

| Name of Component | Name Of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------------------------|----------------------|-------------------------|--------------------|------------------------------------|------------|-----------------------------------|--------------------------|
| 1 1/2" x 2" Nozzle Type Relief Valve | Crosby Valve & Gage | N59380-00-0012 | N/A | 3PSV9226 | 1985 | Replaced | Yes |
| 1 1/2" x 2" Nozzle Type Relief Valve | Crosby Valve & Gage | N59380-00-0006 | N/A | 025-83508 (Rebuilt on MO 99110008) | 1978 | Replacement | Yes |

7. Description of Work:

Replaced the relief valve located in plant position 3PSV9226 with an in-kind rebuilt and tested spare. The replacement spare was rebuilt and tested under MO 99110008. The removed valve to be rebuilt under MO 00040182.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 991101368-05

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

FORM NIS-2 (back)

9. Remarks : None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Date: 6/9/00

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 04/03/00 to 06/09/00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 9, 2000

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class I, 1971 Edition, S.73 Addenda</u>; Code Case: None</p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3</p> <p>MO: 00022515001 01011523000</p> <p>FCN: F15532M, F15533M</p> <p>Rspec: ASME SECTION XI DATA-0247, 178-98 R1, 960600529-12</p> <p>PID: 40114DSO3 (F7)</p> <p>N5: S3-1204-10</p> <p>Type Code Symbol Stamp: N/A</p> <p>Authorization No: N/A</p> <p>Expiration Date: N/A</p> |
|--|--|

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------|----------------------|-------------------------|--------------------|-------------------------|------------|-----------------------------------|--------------------------|
| 2" 1513# Globe Valve | Kerotest | CAQ-12-2 | N/A | S31204MU068 | 1980 | — | Yes |
| Disc | BW/IP International | (324506) S/N 2 | N/A | RSO-0489-97, SA479 316 | 1997 | Replacement | Yes |
| Bonnet | BW/IP International | AXR10-8 | N/A | RSO-1819-937, SA479 316 | 1993 | Replacement | No |

7. Description of Work:

The valve currently installed in plant position S31204MU068 was modified by replacing the existing diaphragm seal with a one-piece stem/disc assembly and replacing the bonnet in accordance with Repair Specification 178-98 Rev. 1. MO 01011523 removed material from the disc seating surface in the valve body to accommodate the modification in accordance with Repair Specification 960600529-12. Reference: FCN's F15532M and F15533M.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 960600529-06

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

FORM NIS-2 (back)

9. Remarks: A Class 1 valve was installed in a Class 2 system.

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

CERTIFICATE OF COMPLIANCE

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

repair or replacement

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 3/15/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/23/01 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 March 19, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, Summer 1973 Addenda</u>; Code Case: None</p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3 MO: 00032333002 Rspec: ASME SECTION XI DATA-0306 PID: 40123CSO3 (F7) N5: S3120810</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|--|

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------|----------------------|----------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 3" 150# Gate Valve | Walworth/Aloyco | A1485 | 718 | S31208MU007 | 1976 | --- | Yes |
| Bonnet | Crane Valves | Ht.# C3705; Part s/n C4858 | N/A | SA351-CF8M (Taken from spare valve s/n C4850) Ref: AR 000301936-5 & RSO-0537-96 | N/A | Replacement | No |

7. Description of Work:

The valve bonnet from the valve (s/n A1485) located in plant position S31208MU007 was replaced with a bonnet removed from spare valve (s/n C4850). The bonnet removed from valve s/n A1485 and the remaining parts from the spare valve were scrapped. Reference: AR 000301936-05 and RSO 0537-96 for the replacement bonnet.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 000301936-02

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

FORM NIS-2 (back)

9. Remarks : None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 8/16/00
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 05/02/00 to 08/16/00 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 16, 2000

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> <p>5. (a) Applicable Construction Code <u>ASME Section III, Class 2, 1974 Edition, S.74 Addenda</u>: Code Case: None</p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u>; 1992 Ed., No Add. (NDE/VT-2): Code Case: N-416-1</p> | <p>Unit: 3 MO: 00040617000 FCN: F21231M, F23563M, F23565M, F21081M Rspec: 038-00 PID: 40123B (E5) N5: S3-1208-14 Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|---|

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|-----------------------------|----------------------|-------------------------|--------------------|--------------------------|------------|-----------------------------------|--------------------------|
| 1" 600# Flow Control Valve | ITT Hammel Dahl | 74/5797/015 | N/A | 3PV0201B | 1977 | Replaced | Yes |
| 2" 600# Globe Valve | Control Components | 36995-1-3 | N/A | RSO-1407-00, SA182 F316 | 1985 | Replacement | Yes |
| 2" NPS Sch 40S Pipe | Energy & Process Co. | Ht. #448896 | N/A | RSO-1671-00, SA312 TP304 | N/A | Replacement | No |
| 2" NPS Sch 40S Elbow | Energy & Process Co. | Ht. #00149 | N/A | RSO-0959-00, SA403 WP304 | N/A | Replacement | No |
| 3" x 2" NPS Sch 40S Reducer | Energy & Process Co. | Ht. Code LUUK-1 | N/A | RSO-1606-00, SA403 WP304 | N/A | Replacement | No |

7. Description of Work:

Replaced the existing Hammel Dahl valve in plant position 3PV0201B (s/n 74/5797/015), the associated piping and fittings with a new CCI valve (s/n 36995-1-3) in accordance with FCN F21081M and reconfigured pipework in accordance with Repair Specification 038-00, the associated weld records, and FCNs F21231M, F23563M, F23565M. Weld records WR3-00-370 R1, WR3-00-371R1, WR3-00-372 R1, WR3-00-373 R1, WR3-00-374 R1, and WR3-00-375 R1 replaced the existing valve and reconfigured the pipework. Weld record WR3-00-375 R2 weld repaired one location of the weld joint completed on WR3-00-375 R1 that was identified by radiography (3RT-007-00) to have a defect and radiography (3RT-008-00) was performed on the repaired area with satisfactory results in accordance with WR3-00-375 R2. WR3-00-397 sealwelded the 1/2" NPS packing leak-off port. All NDE was directed, documented and controlled by the weld records.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 990800957-24

This test was performed in lieu of a hydrostatic pressure test as allowed under Code Case N-416-1.

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 1/14/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 1/8/01 to 1/15/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. 15, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue
Rosemead, California 91770
2. Plant: San Onofre Nuclear Generating Station
San Clemente, California 92674-012
3. Work Performed by: Southern California Edison Company
4. Identification of System: Chemical and Volume Control
5. (a) Applicable Construction Code ASME Section III, NF Class 2, 1974 Edition, S.'74 Addenda; Code Case: None
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

Unit: 3
MO: 00070286000
FCN: F21558M, F21760M, F21265M
Rspec: 990800957-21
PID: 40123BSO3 (E5)
N5: S3-1208-4
Type Code Symbol Stamp: N/A
Authorization No: N/A
Expiration Date: N/A

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|-----------------------------------|----------------------|-----------------------------|--------------------|------------------------------------|------------|-----------------------------------|--------------------------|
| Type-B Variable Spring & Hardware | Grinnell | C268 | N/A | S3-VC-004-H-012 | N/A | Permanently Deleted | No |
| Pipe Guide | --- | N/A (Ref: FGD-P-89-5A) | N/A | S3-VC-004-H-022 | N/A | Replaced | No |
| 2" Pipe Support Strap | Anvil Int'l. | Part No. CL144N; Ht. Code A | N/A | RSO-1447-00, SA36; S3-VC-004-H-022 | N/A | Replacement | No |
| Transverse Pipe Stop | --- | N/A (Ref: FGD-P-127-5) | N/A | S3-VC-004-H-023 | N/A | Replaced | No |
| 2" Pipe Support Strap | Anvil Int'l. | Part No. CL143N; Ht. Code A | N/A | RSO-1447-00, SA36; S3-VC-004-H-023 | N/A | Replacement | No |

7. Description of Work:

Pipe supports S3-CV-004-H-012, S3-CV-004-H-022 and S3-CV-004-H-023 required removal or modifications in accordance with Repair Specification 990800957-21 and associated FCNs, to support installation of new valve in plant position 3PV0201B on MO 00040617. The existing variable spring and associated hardware (S3-CV-004-H-012) was removed and scrapped per FCN F21558M. The existing FGD-P-89-5A pipe guide (S3-CV-004-H-022) was removed and replaced with a Grinnell Fig. CL144N pipe strap in accordance with weld record WR3-00-376 and FCN F21760M. The existing FGD-P-127-5 transverse pipe stop (S3-CV-004-H-023) was removed and replaced with a Grinnell Fig. CL143N pipe strap in accordance with weld record WR3-00-377 and FCN F21265M.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/7/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 1/14/00 to 2/8/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Feb. 6, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1 (NF), 1974 Edition, S'75 Addenda; Code Case: None</u></p> | <p>Unit: N MO: 00101390000 Rspec: ASME SECTION XI DATA-0125 PID: N/A N5: N/A</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|--|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|-----------------------------|------------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| Hydraulic Snubber (826 KIP) | Paul Munroe Hydraulics | PD 16154-1824 | N/A | 026-40001 (spare RCP hydraulic snubber) | N/A | — | No |
| Snubber Control Valve | Paul Munroe Hydraulics | Original | N/A | — | N/A | Replaced | No |
| Snubber Control Valve | Enertech | S/N 455, Lot Code GR | N/A | RSO-2166-00, SA564 Tp.630 | N/A | Replacement | No |

7. Description of Work:

The rod side control valve on the spare RCP hydraulic snubber (026-40001) was replaced with an in-kind replacement control valve. After installation of the replacement control valve, a visual examination (VT-3) of the snubber was performed with satisfactory results.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/22/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/24/00 to 02/23/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 23, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Ed., S.'71 Add: Code Case: 1361-2</u></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Editon. No Addenda</u></p> | <p>Unit: 3 CWO: 00111141000 FCN: F24425G Rspec: 049-00 PID: 40111BSO3 (E6) N5: S3-1201-2</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|--|

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | Watlow/C.E. | 21E | N/A | S31201ME602 | 1981 | Replaced | Yes |
| Pressurizer Heater | Framatome Technologies | 033 | N/A | RSO-1359-00, p/n 1251084-100 (CR-3001-98) | 1998 | Replacement | Yes |

7. Description of Work:

A replacement pressurizer heater was installed in plant location S31201ME602 (at heater sleeve E2) in accordance with Repair Specification 049-00 and weld record WR3-00-500. Post weld NDE examination (3PT-030-01) was performed with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 000300903-19

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

FORM NIS-2 (back)

9. Remarks: CR-3001-98 reconciles the replacement pressurizer heater which was certified to ASME III-1, 1986 Ed., No Addenda.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/9/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/29/00 to 2/9/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Ed., S.'71 Add. Code Case: 1361-2</u></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3 CWO: 00111142000 FCN: F24426G Rspec: 050-00 PID: 40111BSO3 (E6) N5: S3-1201-2</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|--|

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | Watlow/C.E. | 28E | N/A | S31201ME608 | 1981 | Replaced | Yes |
| Pressurizer Heater | Framatome Technologies | 034 | N/A | RSO-1359-00, p/n 1251084-100 (CR-3001-98) | 1998 | Replacement | Yes |

7. Description of Work:

A replacement pressurizer heater was installed in plant location S31201ME608 (at heater sleeve H4) in accordance with Repair Specification 050-00 and weld record WR3-00-601. Post weld NDE examination (3PT-031-01) was performed with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 000300903-19

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

FORM NIS-2 (back)

9. Remarks: CR-3001-98 reconciles the replacement pressurizer heater which was certified to ASME III-1, 1986 Ed., No Addenda.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizat~~on~~ No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/8/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/29/00 to 02/09/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Ed., S.'71 Add: Code Case: 1361-2</u></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3 CWO: 00111143000 FCN: F24427G Rspec: 051-00 PID: 40111BSO3 (E6) N5: S3-1201-2</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|--|

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | Watlow/C.E. | 14E | N/A | S31201ME609 | 1981 | Replaced | Yes |
| Pressurizer Heater | Framatome Technologies | 035 | N/A | RSO-1359-00, p/n 1251084-100 (CR-3001-98) | 1998 | Replacement | Yes |

7. Description of Work:

A replacement pressurizer heater was installed in plant location S31201ME609 (at heater sleeve A4) in accordance with Repair Specification 051-00 and weld record WR3-00-602. Post weld NDE examination (3PT-032-01) was performed with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 000300903-19

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

FORM NIS-2 (back)

9. Remarks: CR-3001-98 reconciles the replacement pressurizer heater which was certified to ASME III-1, 1986 Ed., No Addenda.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/9/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/29/00 to 2/9/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 CWO: 00111144000
 FCN: F24428G
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
 Rspec: 052-00
 PID: 40111BSO3 (E6)
 N5: 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, 1971 Ed., S.'71 Add: Code Case: 1361-2
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | Watlow/C.E. | 2E | N/A | S31201ME615 | 1981 | Replaced | Yes |
| Pressurizer Heater | Framatome Technologies | 036 | N/A | RSO-1359-00, p/n 1251084-100 (CR-3001-98) | 1998 | Replacement | Yes |

7. Description of Work:

A replacement pressurizer heater was installed in plant location S31201ME615 (at heater sleeve C4) in accordance with Repair Specification 052-00 and weld record WR3-00-603. Post weld NDE examination (3PT-033-01) was performed with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 000300903-19

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

FORM NIS-2 (back)

9. Remarks: CR-3001-98 reconciles the replacement pressurizer heater which was certified to ASME III-1, 1986 Ed., No Addenda.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/9/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/29/00 to 2/9/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 9, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Ed., S.71 Add. Code Case: 1361-2</u></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3 CWO: 00111145000 FCN: F24429G Rspec: 053-00 PID: 40111BSO3 (E6) N5: S3-1201-2</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|--|

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | Watlow/C.E. | 4E | N/A | S31201ME617 | 1981 | Replaced | Yes |
| Pressurizer Heater | Framatome Technologies | 038 | N/A | RSO-1359-00, p/n 1251084-100 (CR-3001-98) | 1998 | Replacement | Yes |

7. Description of Work:

A replacement pressurizer heater was installed in plant location S31201ME617 (at heater sleeve B2) in accordance with Repair Specification 053-00 and weld record WR3-00-604. Post weld NDE examination (3PT-034-01) was performed with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 000300903-19

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

FORM NIS-2 (back)

9. Remarks: CR-3001-98 reconciles the replacement pressurizer heater which was certified to ASME III-1, 1986 Ed., No Addenda.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/8/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/29/00 to 2/9/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1971 Ed., S.71 Add. Code Case: 1361-2</u></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3 CWO: 0011146000 FCN: F24430G Rspec: 054-00 PID: 40111BSO3 (E6) N5: S3-1201-2</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|---|

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | Watlow/C.E. | 35E | N/A | S31201ME618 | 1981 | Replaced | Yes |
| Pressurizer Heater | Framatome Technologies | 039 | N/A | RSO-1359-00, p/n 1251084-100 (CR-3001-98) | 1998 | Replacement | Yes |

7. Description of Work:

A replacement pressurizer heater was installed in plant location S31201ME618 (at heater sleeve F3) in accordance with Repair Specification 054-00 and weld record WR3-00-605. Post weld NDE examination (3PT-035-01) was performed with satisfactory results.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 000300903-19

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

FORM NIS-2 (back)

9. Remarks: CR-3001-98 reconciles the replacement pressurizer heater which was certified to ASME III-1, 1986 Ed., No Addenda.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/8/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/29/00 to 2/9/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 9, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
- Unit: 3
 MO: 00111753000
 FCN: F24385M
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
- Rspec: 047-00
 PID: 40111ASO3 (E6)
 N5: 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, 1971 Edition, S.'72 Addenda: Code Case: N-474-1
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Editon, No Addenda

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------------|----------------------|-------------------------|--------------------|----------------------------|------------|-----------------------------------|--------------------------|
| Thermowell | Rosemont | Line S3-1201-ML-001 | N/A | 3TE0112-2 | N/A | Replaced | No |
| Thermowell, RCS Loop RTD | Weed Instrument Co. | N13230, Ht. #NX0643HG1 | N/A | RSO-1795-99, SB166 Gr. 690 | N/A | Replacement | No |

7. Description of Work:

Repalced the existing thermowell in plant position 3TE0112-2 with a replacement thermowell fabricated by Weed Instrument Co. (on MO 99031617), in accordance with Repair Specification 047-00 and weld record WR3-00-496. Reference: FCN F24385M

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 000300903-16

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/8/01
 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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 1/4/01 to 2/9/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Feb. 9, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
- Unit: 3
 MO: 00120667000
 Rspec: 900500122-04
 PID: 40111ASO3
 N5: S3-1201-3
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
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 Ed., S.'71 Add. (RX Vessel); 1977 Ed., W.'79 Add. (ICI Flange Assy.); Code Case: None
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Editon. No Addenda

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 Vessel | CE | 72170 | 22001 | S31101MV001A | 1977 | — | Yes |
| Instrument Flange Adapter Hub #94 | CE | S/N 813911, Ht. #844949 | N/A | Hub #94 | N/A | Replaced | No |
| Instrument Flange Adapter Hub #94 | CE | S/N 3, Ht. #687277 | N/A | RSO-1427-90, SA182 F316 (SEE 90-0042) | N/A | Replacement | No |

7. Description of Work:

Replaced the in-core instrumentation adapter hub #94 on Unit 3 reactor closure head. The post assembly from the replaced hub was tack welded to the new replacement hub in accordance with weld record WR3-00-499 and Repair Specification 900500122-04.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
- VT-2 performed per Procedure SO23-XVII-3.1.1

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

FORM NIS-2 (back)

9. Remarks: SEE 90-0042 reconciles the replacement instrument flange adapter hub which was certified to ASME III-1, 1983 Ed., S.'84 Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/22/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/19/09 to 02/23/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 23, 2001

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

As Required by the Provisions of the ASME Code Section XI

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

Unit: 3
 MO: 01010264000
 Rspec: 010100380-02
 PID: 40141CSO3 (G3)
 N5: S3-1301-2

2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012

3. Work Performed by: Southern California Edison Company

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

4. Identification of System: Main Steam

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda; Code Case: None

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|--------------------------|
| 6" NPS 1500# Piping Inlet Flange | Pullman Inc. | N-7519 | N/A | S3-1301-ML-583 | 1978 | Repaired | No |

7. Description of Work:

Performed weld build-up repairs to the back side of piping inlet flange ring and neck for 3PSV8418 on line S3-1301-ML-583 in accordance with Repair Specification 010100380-02 and weld records WR3-01-006 and WR3-01-007. Reference: NCR 010100380

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 1/16/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/05/01 to 01/17/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 1867 California
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan. 17, 2000

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 MO: 01010345000
 Rspec: GEN-150
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
 PID: 40112BSO3 (E3)
 N5: S3-1204-12
3. Work Performed by: Southern California Edison Company
 Type Code Symbol Stamp: N/A
4. Identification of System: Safety Injection and Shutdown Cooling
 Authorization No: N/A
 Expiration Date: N/A
5. (a) Applicable Construction Code: ASME Section III, Class 2-NF, 1974 Ed., S.74 Addenda; Code Case: None
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Editon, No Addenda

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|-------------------------------|----------------------|-------------------------|--------------------|--------------------------------|------------|-----------------------------------|--------------------------|
| Mechanical Snubber PSA 3-5 | Pacific Scientific | 17602 | N/A | S3-SI-034-H-003 | 1981 | Replaced | No |
| Mechanical Snubber PSA 3-5 | Pacific Scientific | 30750 | N/A | RSO-1081-92, P/N 1801106-05 | N/A | Replacement | No |

7. Description of Work:

The mechanical snubber was replaced with an in-kind replacement. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

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

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/7/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 1/6/01 to 2/8/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 8, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 MO: 01010467001 01010467000
 Rspec: ASME SECTION XI DATA-0140, GEN-139 RI
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
 PID: 40141DSO3 (H7)
 N5: S3-1301-1
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, 1974 Edition, No Addenda, Code Case: 1637
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|---|------------------------|----------------------------|--------------------|--------------------------------------|------------|-----------------------------------|--------------------------|
| 4" 900# Diaphragm Actuator Control Valve | Fisher Controls | 6489982 | 3918 | 3HV8203 | 1978 | — | Yes |
| Stem Assembly w/Primary Plug & Pilot Plug | Fisher Controls | 6489930, 979, 981, 982 | N/A | RSO2-P-0298-82 R1, Mark #NX6912-1 | 1982 | Replacement | Yes |
| 1 1/8" x 36" All-Thread Stud | Nova Machine Products | Ht. #83038, Ht. Code FPY | N/A | RSO-1140-97, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1 1/8" - 8 Heavy Hex Nut (2) | Nova Machine Products | Ht. #8098681, Ht. Code C1X | N/A | RSO-0246-95, SA194 Gr.7 (CR-3004-96) | N/A | Replacement | No |
| 1 1/8" - 8 Heavy Hex Nut (2) | Nova Machine Products | Ht. #4806059, Ht. Code RVZ | N/A | RSO-0093-01, SA194 Gr.7 (CR-3004-96) | N/A | Replacement | No |
| 1 1/8" - 8 Heavy Hex Nut (1) | Vitco Nuclear Products | Ht. #25748, Ht. Code CAZ | N/A | RSO-0180-94, SA194 Gr.7 (CR-3004-96) | N/A | Replacement | No |
| 1 1/8" - 8 Heavy Hex Nut (1) | Nova Machine Products | Ht. #65162, Ht. Code X3V | N/A | RSO-1082-95, SA194 Gr.7 (CR-3004-96) | N/A | Replacement | No |

7. Description of Work:

Rebuilt the valve located in plant position 3HV8203 (s/n 6489982) by replacing the primary plug, pilot plug and bonnet bolting. (6) each bonnet nuts and (1) each bonnet stud were replaced with in-kind replacements. The replacement stud was cut to a 9" length from all-thread stock with the required markings being transferred to the cut piece in accordance with Repair Specification GEN-139 Revision 1.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 010100559-03

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

FORM NIS-2 (back)

- 9. Remarks: CR-3004-96 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Add.
- CR-3005-96 reconciles the replacement stud which was certified to ASME III-2, 1989 Ed., No Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 3/15/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/08/01 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 19, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 MO: 01010907000 00050613000
 Rspec: ASME SECTION XI DATA-0179,
 000300526-05
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
 PID: 40112CSO3 (A5)
 N5: S3-1204-34
3. Work Performed by: Southern California Edison Company
 Type Code Symbol Stamp: N/A
4. Identification of System: Safety Injection and Shutdown Cooling
 Authorization No: N/A
 Expiration Date: N/A
5. (a) Applicable Construction Code: ASME Section III, Class 2 (NC), 1974 Ed., No Add. (Valve); Class 2 (NC), 1974 Ed., S.74 Add. (Pipe & Fittings); Code Case: None
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda; 1992 Edition, No Add. (NDE and VT-2); Code Case: N-416-1

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|-----------------------------|----------------------|-------------------------|--------------------|--|------------|-----------------------------------|--------------------------|
| 2" 1500# Y-Type Globe Valve | Target Rock | S/N 6 | N/A | 3HV9330 | 1977 | Replaced | Yes |
| 2" 1500# Y-Type Globe Valve | Target Rock | S/N 17 | N/A | RSO-0135-98, SA182 F316; Model 74R-002 | 1998 | Replacement | Yes |

7. Description of Work:

MO 00050613 removed the body to bonnet seal weld on the valve in plant position 3HV9330 and the valve was discovered to have a crack in the the valve seat that was not repairable. MO 01010907 replaced the valve with an in-kind replacement valve in accordance with Repair Specification 000300526-05 and weld record WR3-01-016 and WR3-01-017.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 000300526-03

This test was performed in lieu of a hydrostatic pressure test as allowed under Code Case N-416-1.

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/7/01
 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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 5/7/00 to 2/8/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Condensate</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2-NF, 1974 Edition, S.'74 Addenda</u>; Code Case: <u>None</u></p> | <p>Unit: 3 MO: 01011032000 Rspec: GEN-150 PID: 40141ADO3 (G7) N5: S3-1305-8</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|---|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------------------|----------------------|-------------------------|--------------------|--------------------------------|------------|-----------------------------------|--------------------------|
| Mechanical Snubber PSA 10-6 | Pacific Scientific | 17968 | N/A | S3-FW-189-H-010B | 1991 | Replaced | No |
| Mechanical Snubber PSA 10-6 | Pacific Scientific | 17961 | N/A | RSO-1352-91, P/N 1801103-07 | N/A | Replacement | No |

7. Description of Work:

The mechanical snubber was replaced with an in-kind replacement. The snubber assembly was visually examined (VT-3) after installation with satisfactory results. The removed snubber was placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

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

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/7/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 1/17/01 to 2/8/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 8, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
- Unit: 3
 MO: 01011068000
 Rspec: 003-01 R1
 PID: 40123BSO3
 N5: S3-1208-4
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
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, 1974 Edition, No Addenda; Code Case: None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda; 1992 Edition, No Addenda (VT-2); Code Case: N-416-1

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|------------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|--------------------------|
| Letdown Heat Exchanger | Ametek Inc. | 78828 | 10783 | S31208ME062 | 1977 | Repaired | Yes |

7. Description of Work:

Some of the welds that attach the pass partition plates to the internal surface of the channel head of the letdown heat exchanger were cracked and required weld repair. All welding and NDE was performed in accordance with Repair Specification 003-01, Revision 1 and weld record WR3-01-025.

Note: PSE not required due to scope of work.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/22/04
 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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/18/01 to 02/23/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Feb. 23, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class-1 NF, 1974 Ed., S.'74 Addenda; Code Case: None</u></p> <p style="margin-left: 2em;">(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3 MO: 01011559000 Rspec: GEN-150 PID: 40123ASOE (F6) N5: S3-1201-3-10</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|--|

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|-------------------------------|----------------------|-------------------------|--------------------|--|------------|-----------------------------------|--------------------------|
| Mechanical Snubber PSA 1-4 | Pacific Scientific | 24072 | N/A | S3-RC-022-H-008 | 1983 | Replaced | No |
| Mechanical Snubber PSA 1-4 | Pacific Scientific | 20682 | N/A | RSO-2431-84 R1, P/N 1801102-05 (CR-3005-95) | N/A | Replacement | No |
| Mechanical Snubber PSA 1-4 | Pacific Scientific | 3214 | N/A | S3-RC-022-H-009 | 1978 | Replaced | No |
| Mechanical Snubber PSA 1-4 | Pacific Scientific | 20685 | N/A | RSO-2431-84 R1, P/N 1801102-05 (CR-3005-95) | N/A | Replacement | No |

7. Description of Work:

The mechanical snubbers were replaced as a preventative maintenance action. The snubber assemblies were visually examined (VT-3) after installation with satisfactory results. The removed snubbers were placed into the snubber rebuild program.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

9. Remarks: CR-3005-95 reconciles the replacement snubbers which were certified to ASME III-1-NF, 1977 Edition, W.'79 Addenda; Code Case: 1644-6.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/7/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 1/23/01 to 2/8/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 9, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 2/3 ^{at 5/16/01}
 MO: 95031589000
 Rspec: 154-98
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
 PID: N/A
 N5: N/A
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 (NC), 1974 Edition, S.'74 Addenda; Code Case: None
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|-------------------|----------------------|-------------------------|--------------------|------------------------|------------|-----------------------------------|--------------------------|
| Valve Plug | CCI | S/N 1, Ht. #8080095 | N/A | RSO-1375-99, SA182 F11 | 1999 | Repaired | Yes |
| Valve Plug | CCI | S/N 2, Ht. #8080095 | N/A | RSO-1375-99, SA182 F11 | 1999 | Repaired | Yes |

7. Description of Work:

The following repair work was performed by the vendor (CCI) for the valve plugs (Ht. #8080095, S/N 1 & S/N 2): Re-machining; NDE (PT) of machined surfaces; Re-hardfacing; PWHT; Final machining and Final PT and Visual examination. Note: No VT-2 required for this work scope.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 3/15/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/22/99 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 19, 2000

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 MO: 97070324000 97070323000
 FCN: F13553M
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-0128
 Rspec : 094-97 THRU 103-97
 P&ID: N/A
 N-5: N/A
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 Summer 1972 Addenda; Code Case: N-474-1
 (ASME Section III, NB-5000, 1992 Ed. No Add. used for NDE per Code Case: N-416-1)
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component | Name Of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------------------|---------------------------|--------------------------|--------------------|----------------------------------|------------|-----------------------------------|--------------------------|
| 2 1/2" SS Round Bar Stock | Nova Machine Products | Ht. #40506, Ht. Code FAL | N/A | RSO-0639-97, SA479 Tp.316L | N/A | Replacement | No |
| 2 1/2" SS Round Bar Stock | Nova Machine Products | Ht. #47703 | N/A | RSO-1117-97, SA479 Tp.316L | N/A | Replacement | No |
| 1 3/4" Inconel Round Bar Stock | Coulter Steel & Forge Co. | Ht. #ED84 | N/A | RSO-1084-96, SB-166 Alloy N06690 | N/A | Replacement | No |

7. Description of Work:

The referenced maintenance orders and weld records fabricated nine pressure measurement nozzles per FCN F13553M. M.O. 97070323 performed the welding and M.O. 97070324 performed the machining. Six of the nine nozzles failed radiography or final visual examination and were scrapped. Three of the nozzles were completed. The same heat # numbers of material (#40506) were used on six of the nozzles and the heat # numbers (#47703) were used on the remaining three nozzles. Details of each nozzle are summarized below.

| Nozzle Serial# | Weld Record | RT Report# | PT Report# | Current Status |
|----------------|-------------|------------------------|--|--------------------------------------|
| RS-094-97 | WR3-97-359 | 3RT-077-97 (Failed) | 3PT-133-97 | Scrapped, failed RT. |
| RS-095-97 | WR3-97-360 | N/A | N/A | Scrapped during mach process. |
| RS-096-97 | WR3-97-361 | 3RT-082-97 (Failed) | 3PT-136-97 3PT-173-97 (Failed) | Scrapped, failed RT. |
| RS-097-97 | WR3-97-362 | 3RT-076-97 | 3PT-137-97 | Scrapped after failed visual exam. |
| RS-098-97 | WR3-97-363 | 3RT-087-97 | 3PT-138-97 3PT-182-97 | Nozzle installed on 97101708. |
| RS-099-97 | WR3-97-364 | 3RT-083-97 | 3PT-139-97 3PT-174-97 3PT-180-97 | Nozzle installed on 97110883. |
| RS-100-97 | WR3-97-365 | 3RT-086-97 (Failed) | 3PT-178-97 (Failed) | Scrapped prior to machining process. |
| RS-101-97 | WR3-97-366 | N/A | 3PT-141-97 | Scrapped, visual exam. |
| RS-102-97 | WR3-97-367 | 3RT-085-97 (Failed) | 3PT-148-97 3PT-175-97 | Scrapped, failed RT. |
| RS-103-97 | WR3-97-368 | 3RT-084-97 | 3PT-151-97 3PT-176-97 3PT-181-97 | Nozzle installed on 97101708. |

97070324-0

30

8. Tests Conducted: N/A

Pres: N/A

Temp: N/A

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

FORM NIS-2 (back)

9. Remarks : None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Date: 1/20/00

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 07/05/97 to 01/21/00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 21, 2000

97070324-0

31

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, Summer 1975 Addenda</u>; Code Case: None</p> | <p>Unit: 3 MO: 98101825000 Rspec: ASME SECTION XI DATA-0059, GEN-139 R1 PID: 40112ASO3 (D7) N5: S3-1204-22</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|--|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|------------------------------------|-----------------------|---------------------------|--------------------|--|------------|-----------------------------------|--------------------------|
| 24" Duo Check Valve | TRW Mission | 05802 | N/A | S31204MU002 | 1977 | --- | Yes |
| 1 1/4"-8 Heavy Hex Nuts (10) | Nova Machine Products | Ht. #68395, Ht. Code FSD | N/A | RSO-0027-99, SA194 Gr. 7 (CR-3004-96) | N/A | Replacement | No |
| 1 1/4"-8x 36" All-Thread Studs (4) | Nova Machine Products | Ht. # 69498, Ht. Code LMS | N/A | RSO-1769-98, SA193 Gr. B7 (CR-3005-96) | N/A | Replacement | No |

7. Description of Work:

Replaced the flange bolting (10 each nuts and 8 each studs) on the check valve located in plant position S31204MU002. (8) studs were cut to 17" lengths from all-thread material in accordance with GEN-139 Revision 1, with the required markings being transferred to the cut pieces. VT-2 examination was performed and dry boric acid crystals were identified. Operability Assessments 970900643-02 and 990901519-01 were performed and system was accepted as is. Therefore, VT-2 examination (970900643-03) accepted as is in accordance with IWA-5250 (b).

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 970900643-03

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

FORM NIS-2 (back)

9. Remarks: CR-3004-96 and CR-3005-96 reconciles the replacement bolting which was certified to ASME III-2, 1989 Edition, No Addenda.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

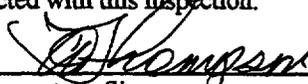
Expiration Date: N/A

Signed:  Supervising ASME Codes Engineer Date: 3/27/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 09/13/99 to 03/27/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date March 27, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
- Unit: 3
 CWO: 99040562000 01010266000
 FCN: F14446M
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
- Rspec: 990302128-03, 990302129-03, 990302130-0
 PID: 40111ASO3
 N5: S3-1301-1
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, S.'71 Addenda; Code Case: None
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Editon, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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 | CE | 72270-1 | 22264 | S31301ME089P | 1977 | — | Yes |
| Instrument Nozzle | SCE | RS-046-97-E | N/A | 3PDT0978-1 | N/A | Repaired | No |
| Instrument Nozzle | SCE | 208-97 | N/A | 3PDT0978-2 | N/A | Repaired | No |
| Instrument Nozzle | SCE | 211-97 | N/A | 3PDT0978-4 | N/A | Repaired | No |

7. Description of Work:

CWO 99040562000 machined the transition area (outside diameter "step") on the Steam Generator instrument nozzles 3PDT0978-1, 3PDT0978-2 and 3PDT0978-4 in accordance with FCN F14446M and Repair Specification 990302129-03 (3PDT0978-1), 990302130-03 (3PDT0978-2) and 990302128-03 (3PDT0978-4). CWO 01010266000 performed PT examinations of the machined surfaces per NCR 990600932 and in accordance with Repair Specifications 990302129-03 (3PT-025-01), 990302130-03 (3PT-062-01) and 990302128-03 (3PT-062-01) with satisfactory results.

8. Tests Conducted: N/A

Pressure: N/A

Temp: N/A

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/22/01
 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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 04/16/99 to 02/23/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 23, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue
Rosemead, California 91770
Unit: 3
MO: 99051052000
Rspec: ASME SECTION XI DATA-0516
PID: 40112CSO3 (F3)
N5: S3-1204-11
2. Plant: San Onofre Nuclear Generating Station
San Clemente, California 92674-012
3. Work Performed by: Southern California Edison Company
Type Code Symbol Stamp: N/A
Authorization No: N/A
4. Identification of System: Safety Injection and Shutdown Cooling
Expiration Date: N/A
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1977 Edition, S.'77 Addenda; Code Case: None

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------|----------------------------|-------------------------|--------------------|----------------------------|------------|-----------------------------------|--------------------------|
| 3" 1500# RTJ Orifice Plate | Permutit Co. | N-4076 | N/A | 3FE0341 | 1981 | Replaced | Yes |
| 3" 1500# RTJ Orifice Plate | ABB Combustion Engineering | 2878 | N/A | RSO-1486-00, SA240 304L SS | 2000 | Replacement | Yes |

7. Description of Work:

Replaced the orifice plate on flow element 3FE0341 with an in-kind replacement orifice plate.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 990401629-16

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/28/01
 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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/04/01 to 03/01/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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: March 1, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Primary Plant Makeup</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S.'73 Addenda; Code Case: None</u></p> | <p>Unit: 3 MO: 99080074001 99080074000 Rspec: ASME SECTION XI DATA-0290 PID: 40111CSO3 (G6) N5: S3-1901-2</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|---|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------|----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 2" 600# Y-Type Globe Valve | Kerotest | SVD1-4 | N/A | S31901MU321 | 1978 | — | Yes |
| Disc | Flowserve | S/N 2, Ht. #8546J | N/A | RSO-1429-00, SA479 316 | 2000 | Replaced | Yes |
| Disc | Kerotest | AHG3-37 | N/A | RSO2-P-2396-83, SA479 316 Stellite Hardface | 1983 | Replacement | Yes |

7. Description of Work:

MO 99080074000 replaced the disc in the valve located in plant position S31901MU321 (valve s/n SVD1-4) with a replacement Flowserve disc (s/n 2, Ht. #8546J), however, the valve failed its LLRT and the MO was revised. MO 99080074001 disassembled the valve and replaced the disc again with a new replacement Kerotest disc (s/n AHG3-37), the valve was reassembled and the VT-2 examination was performed with satisfactory results.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 990800014-03

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

FORM NIS-2 (back)

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

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 3/15/01
 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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/15/01 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 19, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Reactor Coolant</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 1, 1974 Ed., No Add. (Valve); 1974 Ed., S.'74 Add. (Inlet Bolting); Code Case: None</u></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> | <p>Unit: 3 MO: 99082207000 Rspec: ASME SECTION XI DATA-0173 PID: 40111BSO3 (G7) N5: S3-1201-2</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|---|

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-----------------------|--------------------------|--------------------|---------------------------|------------|-----------------------------------|--------------------------|
| 6" x 8" Pressurizer Safety Valve | Dresser | BS-03210 | N/A | 3PSV0200 | 1978 | Replaced | Yes |
| 6" x 8" Pressurizer Safety Valve | Dresser | BS-03212 | N/A | RSO-2479-00, Tested Spare | 1978 | Replacement | Yes |
| 2"-8 x 14 1/2" Stud (2) | Nova Machine Products | Ht. #83633 | N/A | RSO-0146-99, SA193 Gr. B7 | N/A | Replacement | No |
| 2"-8 Heavy Hex Nuts (2) | Nova Machine Products | Ht. #95335, Ht. Code FHZ | N/A | RSO-0904-97, SA194 Gr. 7 | N/A | Replacement | No |
| 2"-8 Heavy Hex Nuts (2) | Nova Machine Products | Ht. #78203, Ht. Code JBX | N/A | RSO-0056-99, SA194 Gr. 7 | N/A | Replacement | No |

7. Description of Work:

The pressurizer safety valve was replaced for preventative maintenance action with a set-point tested spare valve. During installation 2 inlet studs and 4 inlet nuts were also replaced. A VT-1 examination was performed on the replacement flange bolting with satisfactory results. A VT-3 examination of the internal surface of the valve body was performed with satisfactory results (Reference: NCR 001201010). The removed valve was placed into the rebuild program.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT

VT-2 performed per Procedure SO23-XVII-3.1.1

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: *Al Mich* Supervising ASME Codes Engineer Date: 3/29/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 03/03/00 to 03/29/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 29, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Main Steam</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S.'74 Addenda; Code Case: None</u></p> | <p>Unit: 3 MO: 99082223000 Rspec: ASME SECTION XI DATA-0185 PID: 40141CDSO3 (G7) N5: S3-1301-3</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|--|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0037 | N/A | 3PSV8401 | 1984 | Replaced | Yes |
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0028 | N/A | RSO-2465-00 | 1977 | Replacement | Yes |
| 1 3/8" x 9" Inlet Stud (12) | Nova Machine Products | Ht. #28007 | N/A | RSO-2485-00, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1 3/8"-8 Heavy Hex Nut (12) | Nova Machine Products | Ht. Code QXD | N/A | RSO-0409-00, SA194 Gr.7 (CR-3004-96, SEE-92-0065) | N/A | Replacement | No |

7. Description of Work:

The main steam safety valve located in plant position 3PSV8401 (s/n N58737-01-0037) was replaced as a scheduled preventative maintenance action with a spare valve (s/n N58737-01-0028) which had been returned to the vendor for rework and testing. The inlet bolting was also replaced. (12) each studs and (12) each nuts were replaced (the studs were manufactured on MO 99050737). The removed valve was placed into the rebuild program to be rebuilt under MO 00011492.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-26

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

FORM NIS-2 (back)

9. Remarks: CR-3004-96 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Add.; CR-3005-96 reconciles the replacement studs which were certified to ASME III-2, 1989 Ed., No Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 3/15/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/04/00 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 19, 2001

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizat^on No: N/A

Expiration Date: N/A

Signed: 

Owner or Owner's Designee, Title

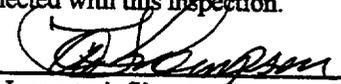
Supervising ASME Codes Engineer

Date: 3/23/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 03/03/00 to 03/26/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions

1862

California

National Board, State, Province, and Endorsements

Date

March 26, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 MO: 99082277000
 Rspec: GEN-106 R2
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
 PID: 40111ASO3
 N5: 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 I, 1980 Edition, Summer 1982 Addenda; Code Case: None
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Component

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------------|----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 36" Reactor Coolant Pump | Byron Jackson | 701-N-0561 | N/A | S31201MP003 | 1978 | — | Yes |
| RCP Pump Mechanical Seal | Bingham Willamette | 1659057-6 | 1174 | RSO-2779-86, SO23-CART-#24, Rebuild MO 01010320 | 1986 | Replaced | Yes |
| RCP Pump Mechanical Seal | Bingham Willamette | 1659057-12 | 1220 | RSO-2100-88, SO23-CART-#26 | 1986 | Replacement | Yes |

7. Description of Work:

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

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
VT-2 performed per Procedure SO23-XVII-3.1.1

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/22/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/09/00 to 02/23/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 23, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
- Unit: 3
 MO: 99082289000
 Rspec: GEN-106 R2
 PID: 40111ASO3
 N5: S3-1201-3
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
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 1, 1980 Edition Summer 1982 Addenda; Code Case: None
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Component

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------------|----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 36" Reactor Coolant Pump | Byron Jackson | 701-N-0562 | N/A | S31201MP004 | 1979 | — | Yes |
| RCP Pump Mechanical Seal | Bingham Willamette | 1714880-3 | 1172 | RSO-3476-86, SO23-CART-#22, Rebuild MO 01010321 | 1986 | Replaced | Yes |
| RCP Pump Mechanical Seal | Bingham Willamette | 1714880-5 | 1165 | RSO-2779-86, SO23-CART-#15 | 1986 | Replacement | Yes |

7. Description of Work:

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

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT

VT-2 performed per Procedure SO23-XVII-3.1.1

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/22/01
 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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/09/00 to 02/23/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 23, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, No Addenda</u>; Code Case: <u>None</u></p> | <p>Unit: 3 MO: 99082290000 Rspec: ASME SECTION XI DATA-0586 PID: 40123BSO3 (C6) N5: S3-1208-4</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|---|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|----------------------------|-----------------------------|--------------------|------------------------------------|------------|-----------------------------------|--------------------------|
| Letdown Heat Exchanger | Ametek Inc. | 78828 | 10783 | S31208ME062 | 1977 | — | Yes |
| 1" x 8 1/2" All-Thread Stud (28) | Nova Machine Products | Ht. #69463, Ht. Code RX | N/A | RSO-0604-00, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1"- 8 Heavy Hex Nut (56) | Allied Nut & Bolt Co. Inc. | Ht. #090309, Trace Code 047 | N/A | RSO-1237-95, SA194 2H (CR-3005-00) | N/A | Replacement | No |

7. Description of Work:

The letdown heat exchanger manway cover studs (28) each and nuts (56) each were replaced with in-kind replacements.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 001002311-04

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

FORM NIS-2 (back)

9. Remarks: CR-3005-96 reconciles the replacement studs which were certified to ASME III-2, 1989 Ed., No Addenda; CR-3005-00 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Addenda.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/22/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/04/01 to 03/01/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

March 1, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 MO: 99082291000
 Rspec: ASME SECTION XI DATA-0188
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
 PID: 40141DSO3 (G-5)
 N5: S3-1301-1
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, 1974 Edition, S.'74 Addenda; Code Case: None
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0004 | N/A | 3PSV8404 | 1976 | Replaced | Yes |
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0025 | N/A | RSO-2214-00 | 1977 | Replacement | Yes |
| 1 3/8" x 9" Inlet Stud (12) | Nova Machine Products | Ht. #28007 | N/A | RSO-2485-00, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1 3/8"-8 Heavy Hex Nut (12) | Nova Machine Products | Ht. Code QXD | N/A | RSO-0409-00, SA194 Gr.7 (CR-3004-96, SEE-92-0065) | N/A | Replacement | No |

7. Description of Work:

The main steam safety valve located in plant position 3PSV8404 (s/n N58737-01-0004) was replaced as a scheduled preventative maintenance action with a spare valve (s/n N58737-01-0025) which had been returned to the vendor for rework and testing. The inlet bolting was also replaced. (12) each studs and (12) each nuts were replaced (the studs were manufactured on MO 99050737). The removed valve was placed into the rebuild program to be rebuilt under MO 00011636.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-26

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

FORM NIS-2 (back)

9. Remarks: CR-3004-96 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Add.; CR-3005-96 reconciles the replacement studs which were certified to ASME III-2, 1989 Ed., No Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizat^on No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 2/22/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/03/00 to 03/01/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 March 1, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
- Unit: 3
 MO: 99082300000
 Rspec: ASME SECTION XI DATA-0189
 PID: 40141DSO3 G-5
 N5: S3-1301-1
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
3. Work Performed by: Southern California Edison Company
- Type Code Symbol Stamp: N/A
 Authorization No: N/A
 Expiration Date: N/A
4. Identification of System: Main Steam
5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, S.'74 Addenda; Code Case: None
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition, No Addenda

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0007 | N/A | 3PSV8405 | 1976 | Replaced | Yes |
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0032 | N/A | RSO-2465-00 | 1977 | Replacement | Yes |
| 1 3/8" x 9" Inlet Stud (12) | Nova Machine Products | Ht. #28007 | N/A | RSO-2485-00, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1 3/8"-8 Heavy Hex Nut (12) | Nova Machine Products | Ht. Code QXD | N/A | RSO-0409-00, SA194 Gr.7 (CR-3004-96, SEE-92-0065) | N/A | Replacement | No |

7. Description of Work:

The main steam safety valve located in plant position 3PSV8405 (s/n N58737-01-0007) was replaced as a scheduled preventative maintenance action with a spare valve (s/n N58737-01-0032) which had been returned to the vendor for rework and testing. The inlet bolting was also replaced. (12) each studs and (12) each nuts were replaced (the studs were manufactured on MO 99050737). The removed valve was placed into the rebuild program to be rebuilt under MO 00011899.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-26

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

FORM NIS-2 (back)

9. Remarks: CR-3004-96 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Add.;
CR-3005-96 reconciles the replacement studs which were certified to ASME III-2, 1989 Ed., No Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 3/15/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/03/00 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 19, 2001

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|---|
| 1. Owner: Southern California Edison Company 2244 Walnut Grove Avenue Rosemead, California 91770 | Unit: 3 MO: 99082330000 Rspec: ASME SECTION XI DATA-0187 PID: 40141CSO3 (G-6) N5: S3-1301-1 |
| 2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012 | |
| 3. Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A |
| 4. Identification of System: Main Steam | |
| 5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S.'74 Addenda</u> ; Code Case: None | |

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-----------------------|--------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0020 | N/A | 3PSV8412 | 1977 | Replaced | Yes |
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0029 | N/A | RSO-2465-00 | 1977 | Replacement | Yes |
| 1 3/8" x 9" Inlet Stud (12) | Nova Machine Products | Ht. #28007 | N/A | RSO-2485-00, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1 3/8"-8 Heavy Hex Nut (4) | Nova Machine Products | Ht. Code QXD | N/A | RSO-0409-00, SA194 Gr.7 (CR-3004-96, SEE-92-0065) | N/A | Replacement | No |
| 1 3/8"-8 Heavy Hex Nut (8) | Nova Machine Products | Ht. #96161, Ht. Code LUW | N/A | RSO-0234-99, SA194 Gr.7 (CR-3004-96, SEE-92-0065) | N/A | Replacement | No |

7. Description of Work:

The main steam safety valve located in plant position 3PSV8412 (s/n N58737-01-0020) was replaced as a scheduled preventative maintenance action with a spare valve (s/n N58737-01-0029) which had been returned to the vendor for rework and testing. The inlet bolting was also replaced. (12) each studs and (12) each nuts were replaced (the studs were manufactured on MO 99050737). The removed valve was placed into the rebuild program to be rebuilt under MO 00011905.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-26

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

FORM NIS-2 (back)

- 9. Remarks: CR-3004-96 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Add.;
- CR-3005-96 reconciles the replacement studs which were certified to ASME III-2, 1989 Ed., No Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 3/15/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/03/00 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

1862

California

National Board, State, Province, and Endorsements

Date March 19, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Main Steam</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S.'74 Addenda</u>; Code Case: None</p> | <p>Unit: 3 MO: 99082335000 Rspec: ASME SECTION XI DATA-0188 PID: 40141CSO3 G-5 N5: S3-1301-2</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> <p>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda</u></p> |
|---|--|

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0001 | N/A | 3PSV8413 | 1976 | Replaced | Yes |
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0022 | N/A | RSO-2465-00 | 1977 | Replacement | Yes |
| 1 3/8" x 9" Inlet Stud (12) | Nova Machine Products | Ht. #28007 | N/A | RSO-2485-00, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1 3/8"-8 Heavy Hex Nut (12) | Nova Machine Products | Ht. Code QXD | N/A | RSO-0409-00, SA194 Gr.7 (CR-3004-96, SEE-92-0065) | N/A | Replacement | No |

7. Description of Work:

The main steam safety valve located in plant position 3PSV8413 (s/n N58737-01-0001) was replaced as a scheduled preventative maintenance action with a spare valve (s/n N58737-01-0022) which had been returned to the vendor for rework and testing. The inlet bolting was also replaced. (12) each studs and (12) each nuts were replaced (the studs were manufactured on MO 99050737). The removed valve was placed into the rebuild program to be rebuilt under MO 00011923.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-26

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

FORM NIS-2 (back)

9. Remarks: CR-3004-96 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Add.;
CR-3005-96 reconciles the replacement studs which were certified to ASME III-2, 1989 Ed., No Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer Date: 3/15/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/08/00 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 19, 2001

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|---|---|
| 1. Owner: Southern California Edison Company 2244 Walnut Grove Avenue Rosemead, California 91770 | Unit: 3 MO: 99082350000 Rspec: ASME SECTION XI DATA-0193 PID: 40141CDSO3 (G3) N5: S3-1301-2 |
| 2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012 | |
| 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: <u>ASME Section III, Class 2, 1974 Edition, S.'74 Addenda; Code Case: None</u> | |

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0038 | N/A | 3PSV8418 | 1984 | Replaced | Yes |
| 6" x 10" Main Steam Safety Valve | Crosby Valve & Gage | N58737-01-0033 | N/A | RSO-2465-00 | 1977 | Replacement | Yes |
| 1 3/8" x 9" Inlet Stud (12) | Nova Machine Products | Ht. #28007 | N/A | RSO-2485-00, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1 3/8"-8 Heavy Hex Nut (12) | Nova Machine Products | Ht. Code QXD | N/A | RSO-0409-00, SA194 Gr.7 (CR-3004-96, SEE-92-0065) | N/A | Replacement | No |

7. Description of Work:

The main steam safety valve located in plant position 3PSV8418 (s/n N58737-01-0038) was replaced as a scheduled preventative maintenance action with a spare valve (s/n N58737-01-0033) which had been returned to the vendor for rework and testing. The inlet bolting was also replaced. (12) each studs and (12) each nuts were replaced (the studs were manufactured on MO 99050737). The removed valve was placed into the rebuild program to be rebuilt under MO 00011925.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-26

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

FORM NIS-2 (back)

9. Remarks: CR-3004-96 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Add.;
CR-3005-96 reconciles the replacement studs which were certified to ASME III-2, 1989 Ed., No Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 3/15/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 02/03/00 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 1662 California
National Board, State, Province, and Endorsements

Date March 19, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, No Addenda</u>. Code Case: <u>None</u></p> | <p>Unit: 3 MO: 99083059000 00120613000 Rspec: ASME SECTION XI DATA-0180, GEN-158 PID: 40112DSO3 (F4) N5: S3-1204-18</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|---|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------|----------------------|-------------------------|--------------------|-------------------------|------------|-----------------------------------|--------------------------|
| 8" 1500# Globe Valve | Target Rock | 74R-008-8 | N/A | 3HV9328 | 1977 | --- | Yes |
| Disc | Target Rock | S/N 17 | N/A | RSO-1689-91, SA182 F347 | 1991 | Replacement | Yes |

7. Description of Work:

MO 99083059 replaced the valve disc in the valve located in plant position 3HV9328 (s/n 74R-008-8) with an in-kind replacement disc. MO 00120613 removed and restored the body to bonnet seal weld in accordance with Repair Specification GEN-158. Post weld NDE examination (3PT-041-01) was performed on the seal weld with satisfactory results.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 990801239-07

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizatoin No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 3/23/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 01/12/01 to 03/26/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 March 26, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Safety Injection and Shutdown Cooling</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda; Code Case: None</u></p> | <p>Unit: 3 MO: 99083312000 Rspec: ASME SECTION XI DATA-0207 PID: 40112DSO3 (C5) N5: S3-1201-4</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|---|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|------------------------------|----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 6" x 8" Relief Valve (L-Top) | Crosby Valve & Gage | N60061-00-0002 | N/A | 3PSV9349 | 1978 | Replaced | Yes |
| 6" x 8" Relief Valve (L-Top) | Crosby Valve & Gage | N60061-00-0004 | N/A | Mat Code 026-44409 (Rebuilt under MO 99051790) | 1984 | Replacement | Yes |

7. Description of Work:

Replaced the relief valve in plant position 3PSV9349 with a rebuilt and tested spare valve (S/N N60061-00-0004). The removed valve (S/N N60061-00-0002) was placed in the rebuild program (to be rebuilt under MO 00021515).

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 000300903-13

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 12/24/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 07/27/00 to 12/27/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 27, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> <p>5. (a) Applicable Construction Code <u>ASME Section III, Class 2 (NC), 1971 Ed., S.'73 Add. (Valve); Class 2 (NC), 1974 Ed., S.'74 Add. (Pipe and installation); Code Case: None</u></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: <u>1989 Edition, No Addenda; 1992 Ed., No Add. (NDE & VT-2); Code Case: N-416-1</u></p> | <p>Unit: 3 MO: 99091641002 99091641001 FCN: F21249M, F21259M, F21250M, F21524M Rspec: 990901067-12, 990901067-17 PID: 40124BSO3 (G2) N5: S3-1208-5</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|--|

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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" 1500# Y-Type Check Valve | Kerotest | MA8-16 | N/A | S31208MU067 | 1976 | Replaced | Yes |
| 2" 1513# Y-Type Check Valve | BW/IP International | 97ZV1146 | N/A | RSO-0464-98, SA182 F316 | 1998 | Replacement | Yes |

7. Description of Work:

MO 99091641001 replaced the Kerotest check valve (s/n MA8-16) in plant position S31208MU067 with a BWIP check valve (s/n (97ZV1146). The valve came from the manufacturer with the ends machined for a "J" bevel weld joint design and required that the ends be re-machined and the new surface PT examined. Additionally, valve replacement required the downstream pipe nipple between valves S31208MU067 and S31208MU068 be cut and beveled. The replacement valve installation was performed in accordance with Repair Specification 990901067-12 and weld records WR3-00-099 Rev. 0 and WR3-00-100. MO 99091641002 repaired the weld defect to weld "BH" as noted on NDE report 3RT-003-01, in accordance with Repair Specification 990901067-17 and weld record WR3-00-099 Rev. 1; The replacement BWIP valve body-to-bonnet sealweid was performed in accordance with weld record WR3-00-251 and Repair Specification 990901067-12.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 990901067-13

This test was performed in lieu of a hydrostatic pressure test as allowed under Code Case N-416-1.

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

FORM NIS-2 (back)

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

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 2/22/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 11/23/00 to 02/23/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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. 23, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-0128</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> | <p>Unit: 3 MO: 99100231000 Rspec: ASME SECTION XI DATA-0460 P&ID: 40124BSO3 (H2) N-5: S3-1208-5</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|---|

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

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

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

| Name of Component | Name Of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|--------------------------|
| 1 1/2" x 2" Nozzle Type Relief Valve | Crosby Valve & Gage | N59380-00-0013 | N/A | 3PSV9225 | 1985 | Replaced | Yes |
| 1 1/2" x 2" Nozzle Type Relief Valve | Crosby Valve & Gage | N59380-00-0007 | N/A | Rebuild MO 97121818 | 1984 | Replacement | Yes |

7. Description of Work:

Replaced the relief valve S/N N59380-00-0013 located in plant position 3PSV9225 with a tested and rebuilt spare relief valve S/N N59380-00-0007 that was rebuilt under MO 97121818. Note: Removed valve to be rebuilt under MO 99100415.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 991000128-02

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

FORM NIS-2 (back)

9. Remarks : None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Supervising ASME Codes Engineer

Date: 7/2/99

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/04/99 to 12/03/99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 3, 1999

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

As Required by the Provisions of the ASME Code Section XI

- | | |
|--|--|
| 1. Owner: Southern California Edison Company 2244 Walnut Grove Avenue Rosemead, California 91770 | Unit: 3 MO: 99100503000 Rspec: ASME SECTION XI DATA-0460 P&ID: 40124BSO3 (E2) N-5: S3-1208-5 |
| 2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-0128 | |
| 3. Work Performed by: Southern California Edison Company | Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A |
| 4. Identification of System: Chemical and Volume Control | |

5. (a) Applicable Construction Code: ASME Section III, Class 2, 1974 Edition, Summer 1974 Addenda; Code Case: None

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

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

| Name of Component | Name Of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|--------------------------------------|----------------------|-------------------------|--------------------|--|------------|-----------------------------------|--------------------------|
| 1 1/2" x 2" Nozzle Type Relief Valve | Crosby Valve & Gage | N59380-00-0006 | N/A | 3PSV9226 | 1978 | Replaced | Yes |
| 1 1/2" x 2" Nozzle Type Relief Valve | Crosby Valve & Gage | N59380-00-0012 | N/A | 025-83508, (Rebuilt on MO 97121811) | 1985 | Replacement | Yes |

7. Description of Work:

Replaced the relief valve located in plant position 3PSV9226 with an in-kind rebuilt and tested spare. The replacement spare was rebuilt and tested under MO 97121811. The removed valve to be rebuilt under MO 99110008.

8. Tests Conducted: System Functional Pressure Test

Pressure: NOP

Temp: N/A

See: AR 991000316-02

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

FORM NIS-2 (back)

9. Remarks : None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

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

Date: 7/17/00

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/13/99 to 01/18/00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 01/18/00

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
 2244 Walnut Grove Avenue
 Rosemead, California 91770
 Unit: 3
 MO: 99100779001
 FCN: F21252M, F21253M, F21260M, F21525M
 Rspec: 991000212-08
2. Plant: San Onofre Nuclear Generating Station
 San Clemente, California 92674-012
 PID: 40124BSO3 (D2)
 N5: S3-1208-5
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 (NC), 1971 Ed., S.'73 Add. (Valve): Class 2 (NC), 1974 Ed., S.'74 Add. (Pipe and installation): Code Case: None
5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Editon, No Addenda; 1992 Edition, No Addenda (VT-2): Code Case: N-416-1

6. Identification of Components Repaired or Replaced and Replacement Component

| Name 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" 1500# Y-Type Check Valve | Kerotest | MA8-20 | N/A | S31208MU069 | 1976 | Replaced | Yes |
| 2" 1513# Y-Type Check Valve | BW/IP International | 97ZV1144 | N/A | RSO-0337-98, SA182 F316 | 1998 | Replacement | Yes |

7. Description of Work:

Replaced the Kerotest check valve (s/n MA8-20) in plant position S31208MU069 with a BWIP check valve (s/n 97ZV1144). The valve came from the manufacturer with the ends machined for a "J" bevel weld joint design and required that the ends be re-machined and the new surface PT examined. Additionally, valve replacement required the downstream pipe nipple between valves S31208MU069 and S31208MU070 cut and beveled. The replacement valve installation was performed in accordance with Repair Specification 991000212-08 and weld records WR3-00-252 and WR3-00-253, and the replacement BWIP valve body-to-bonnet sealweld was performed in accordance with weld record WR3-00-255.

8. Tests Conducted: System Leakage Pressure Test Pressure: NOP Temp: NOT
See: AR 991000212-09

This test was performed in lieu of a hydrostatic pressure test as allowed under Code Case N-416-1.

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

FORM NIS-2 (back)

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

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

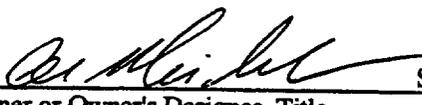
CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

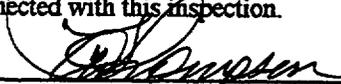
Expiration Date: N/A

Signed:  Supervising ASME Codes Engineer Date: 2/22/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 11/30/00 to 02/23/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date Feb. 23, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Chemical and Volume Control</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1971 Edition, S.'73 Addenda; Code Case: None</u></p> | <p>Unit: 3 MO: 99110546000 Rspec: ASME SECTION XI DATA-0068 PID: 40124BSO3 (C2) NS: S3-1208-5</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|--|---|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|-----------------------------|----------------------|-------------------------|--------------------|---|------------|-----------------------------------|--------------------------|
| 2" 1500# Y-Type Globe Valve | Kerotest | OCA14-22 | N/A | S31208MU018 | 1977 | — | Yes |
| Disc | Flowserve Corp. | S/N 10, Ht. #8546J | N/A | RSO-1429-00, SA479 316 Stellite Hardface | 2000 | Replacement | Yes |
| Bonnet | Kerotest | AXR10-2 | N/A | RSO-1819-93, SA479 316 | N/A | Replacement | Yes |

7. Description of Work:

Replaced the disc and bonnet in the valve located in plant position S31208MU018 (s/n OCA14-22) with in-kind replacements.

8. Tests Conducted: System Functional Pressure Test Pressure: NOP Temp: N/A
See: AR 991100228-02

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

FORM NIS-2 (back)

9. Remarks: The replacement disc and bonnet were certified to a higher code class ASME III-1 as allowed by ASME III paragraph NCA-2134.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 3/23/01
 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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/13/01 to 03/26/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable 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 26, 2001

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, California 91770</p> <p>2. Plant: San Onofre Nuclear Generating Station San Clemente, California 92674-012</p> <p>3. Work Performed by: Southern California Edison Company</p> <p>4. Identification of System: Main Steam</p> <p>5. (a) Applicable Construction Code: <u>ASME Section III, Class 2, 1974 Edition, S.'74 Addenda; Code Case: None</u></p> | <p>Unit: 3 MO: 99110550001 01011033000, 95031589000 Rspec: ASME SECTION XI DATA-0142, GEN-139 R1, 154-98 PID: 40141DSO3 (E6) N5: S3-1301-1</p> <p>Type Code Symbol Stamp: N/A Authorization No: N/A Expiration Date: N/A</p> |
|---|--|

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-----------------------|---------------------------------|--------------------|--|------------|-----------------------------------|--------------------------|
| 8" 900# Drag Valve | B&W/CCI | 18447-3-3 | N/A | 3HV8419 | 1979 | — | Yes |
| Valve Plug | CCI | S/N 1; Ht. #8080095 | N/A | RSO-1375-99, SA182 F11, Rebuild MO 95031589 | 1999 | Replacement | Yes |
| 1 3/8" x 36" All-Thread Stud (4) | Nova Machine Products | Ht. #99227-32-1, Trace Code TVX | N/A | RSO-2353-00, SA193 B7 (CR-3005-96) | N/A | Replacement | No |
| 1 3/8"- 8 Heavy Hex Nuts (14) | Nova Machine Products | Ht. #10150, Ht. Code RKW | N/A | RSO-0916-00, SA194 7 (CR-3004-96, SEE-92-0065) | N/A | Replacement | No |

7. Description of Work:

Replaced the valve plug and bonnet bolting in the valve located in plant position 3HV8419 (s/n 18447-3-3) with in-kind replacements. (14) each bonnet nuts were replaced and under MO 01011033000 (14) each studs were cut to 8 5/16" lengths from all-thread stock with the required markings being transferred to the cut pieces in accordance with Repair Specification GEN-139 R1. Replacement plug assembly was refurbished by vendor (CCI) in accordance with MO 95031589000 and Repair Specification 154-98.

8. Tests Conducted: System Inservice Pressure Test Pressure: NOP Temp: N/A
See: AR 991100389-04

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

FORM NIS-2 (back)

9. Remarks: CR-3004-96 reconciles the replacement nuts which were certified to ASME III-2, 1989 Ed., No Add. (Ref. SEE-92-0065); CR-3005-96 reconciles the replacement studs which were certified to ASME III-2, 1989 Ed., No Add.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizaton No: N/A

Expiration Date: N/A

Signed: [Signature] Supervising ASME Codes Engineer Date: 3/15/01
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 Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/27/00 to 03/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

March 19, 2001

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Southern California Edison Company
2244 Walnut Grove Avenue
Rosemead, California 91770
Unit: 3
MO: 99111396000
Rspec: ASME SECTION XI DATA-0293
2. Plant: San Onofre Nuclear Generating Station
San Clemente, California 92674-012
PID: 40123BSO3 (D2)
N5: S3-1208-11
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, 1971 Edition, S.'73 Addenda; Code Case: None

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

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

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped Yes/No |
|---------------------|----------------------|-------------------------|--------------------|------------------------|------------|-----------------------------------|--------------------------|
| 2" 600# Check Valve | Valcor | S/N 5 | N/A | S31208MU172 | 1985 | — | Yes |
| Disc | Valcor | S/N LP1 | N/A | RSO-1977-93, SA479 316 | 1993 | Replacement | Yes |

7. Description of Work:

Replaced the valve disc on the valve in plant position S31208MU172 (s/n 5) with an in-kind replacement disc to correct leak by.

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

See: AR 991101245-02

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

FORM NIS-2 (back)

9. Remarks: None.

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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorizat^on No: N/A

Expiration Date: N/A

Signed:

[Handwritten Signature]
Owner or Owner's Designee, Title

Supervising ASME Codes Engineer

Date:

3/23/01

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 03/03/00 to 03/26/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

March 26, 2001