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U.S. Nuclear Regulatory Commission
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Refueling Outage (RFO) - 13 Inservice Inspection Report.

Reference:

1. ENG C Letter No. 2.01.035, "Pilgrim Station 2001 On-line and Refueling Outage (RFO) - 13 Inservice Inspection Plan", dated March 13, 2001.
2. NRC Letter, "Relief Request Regarding Approval of Alternative Risk-Informed Inservice Inspection Program for the Third Inspection Interval (TAC No. MB0841)", dated May 2, 2001.

The enclosed report provides results of the inservice inspection conducted at Pilgrim Nuclear Power Station during RFO 13. The scope of RFO 13 inservice inspection was described in Reference 1 and is in accordance with Reference 2.

This submittal fulfills the requirements of ASME Section XI, 1989 Edition, Paragraph IWA-6230 and is in compliance with 10 CFR 50.55(g)(5) requirements.

If you have any questions regarding the information contained in this letter, please contact Walter Lobo at (508) 830-7940.


for W.J. Riggs

Enclosure: RFO#13 ISI Report

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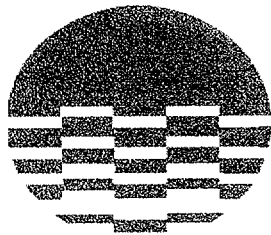
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ENCLOSURE TO ENGC LETTER NO. 2.01.082

REFUELING OUTAGE (RFO) –13 INSERVICE INSPECTION REPORT



Entergy

INSERVICE INSPECTION SUMMARY REPORT FOR REFUEL OUTAGE 13 AT PILGRIM NUCLEAR POWER STATION

APRIL 2001

Prepared by Steven E. Cook Date 7-17-01

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- 3.2 General Electric Corp. Final Report of In-vessel Examinations at Pilgrim Station during Refueling Outage 13 (1 volume)
- 3.3 Pilgrim-generated RFO13 ISI Data Reports (1 volume)

1.0 EXECUTIVE SUMMARY

This report documents the inservice inspection (ISI), preservice inspection (PSI) and augmented examinations performed at Pilgrim Nuclear Power Station (PNPS) for the period from the end of Refueling Outage 12 to the end of Refueling Outage 13. The examinations performed for all ASME Section XI code categories are included in the second period of the Third Ten Year Inspection Interval of the PNPS ISI Program.

Pilgrim began implementation of a Risk-Informed ISI Program for Class 1 category B-J and B-F welds during RFO13 in accordance with the NRC Safety Evaluation Report (TAC No. MB0841) detailed in NRC letter to Entergy 1.1.01.046. Pilgrim also employed BWRVIP-75 scheduling guidelines for Category C, D and E austenitic stainless steel piping welds in accordance with the NRC Safety Evaluation Report (TAC No. MA5012) dated September 15, 2000 as an alternative to Generic Letter 88-01 inspection schedules.

Types of examinations performed:

- ASME XI inservice and preservice visual, surface and volumetric examinations of piping, bolting, valves and supports.
- ASME XI subsection IWE visual and ultrasonic examinations of containment per PNPS procedure QA 20.03.
- Augmented ultrasonic (UT) examinations for intergranular stress corrosion cracking (IGSCC) per Generic Letter 88-01 and BWRVIP-75.
- Augmented UT examinations of high energy piping for flow-assisted corrosion (FAC) per Generic Letter 89-08 and Specification M-577.
- Visual examination of invessel Core Spray piping in accordance with BWRVIP guidelines, in addition to various other invessel visual examinations.
- Augmented UT examinations of Salt Service Water piping spools in accordance with Specification M-591 (Generic Letter 89-13).
- System pressure tests for ISI Class 2 and 3 piping for the second period of the Third Interval ISI Program.

Examination Details

Piping, bolting and valve examinations were conducted in accordance with ASME Section XI 1989 edition, Code Case N-491 for supports and Entergy letter to NRC 1.2.01.035 which provided the scope of the on-line and RFO#13 outage examinations. Containment examinations were performed in accordance with ASME XI 1992 edition with 1992

Addenda subsection IWE as modified by the Code of Federal Regulations. Sciencetech (NES) Corp. was the vendor for a portion of the online scope and all non-invessel ISI examinations performed during the refueling outage. Entergy Quality Control personnel performed the balance of on-line examinations prior to RFO#13. General Electric Corp. performed all invessel examinations during the outage.

Regarding Entergy letter 1.2.01.035, "Pilgrim Station 2001 On-Line and RFO13 Inservice Inspection (ISI) Plan":

All planned examinations described in the ISI plan letter were completed with the exception of certain IVVI examinations (described below).

A total of 5 Nonconformance Reports and 13 Problem Reports were issued and are tabulated in Table 3.

A total of 63 original scope and 12 expanded scope ultrasonic examinations for flow-assisted corrosion effects were performed in accordance with Generic Letter 89-08.

Ultrasonic wall thickness examinations were performed (on-line) on seven rubber-lined carbon steel Salt Service Water (SSW) pipe spools in accordance with Specification M-591 and Generic Letter 89-13. The planned replacement of 16 SSW pipe spools was completed as part of the SSW Pipe Replacement Project during RFO13.

49 system pressure tests for ISI Class 2 and 3 piping were conducted for the second period of the Third Interval ISI Program.

In Vessel Examinations (by General Electric)

The report of the invessel activities has been provided to the BWRVIP database maintained by EPRI. A summary of the results from RFO13 is provided here.

All examinations stated in Entergy letter to NRC 1.2.01.035 were completed with the following clarifications:

Examination of the shroud upper ring segment welds was limited to one weld (BWRVIP-76).

Access hole covers were not examined based on recommendations of SIL 462 Revision 1.

Steam dryer drain channel examination was eliminated based on design considerations (SIL 474).

Dry tube inspection was eliminated based on priority (SIL 409).

CRD guide tube examinations were reduced to verifying pin and lug integrity based on priority (BWRVIP-47).

All BWRVIP-18 (Core Spray) required examinations were completed as stated.

Regarding BWRVIP-41 (Jet Pump) examinations, all examinations except the RS-3 welds were completed; substitutions in method UT/VT-1 were made to accommodate schedule.

Also, the examination of jet pump welds RB-1 and RB-2 on seven risers were added meeting BWRVIP-41 criteria.

Containment Examinations (IWE)

Augmented and program examinations were performed as baseline examinations for the containment IWE examination program in accordance with PNPS procedure QA 20.03 and ASME XI 1992 edition with 1992 Addenda as modified by the Code of Federal Regulations.

Table 1

ISI EXAMINATIONS PERFORMED ON-LINE PRIOR TO RFO#13
by Entergy and Scientech Corp.

| Component | Description | Category | System | Isometric | Exam |
|------------------|----------------------|----------|--------|----------------------|-------|
| 10-VB-1001-47 | VALVE BOLTING | B-G-2 | RHR | ISI-I-10-1A | VT-1 |
| 3-WSD-11 | CAP TO PIPE | C-F-2 | CRD | ISI-I-3-1 | MT UT |
| GB-14-F46 | VALVE TO PIPE | C-F-2 | CS | ISI-I-14-2A | MT UT |
| HLB-14-F48H | PIPE TO ELBOW | C-F-2 | CS | ISI-I-14-2A | MT UT |
| GB-14-F21 | ELBOW TO PIPE | C-F-2 | CS | ISI-I-14-2B | MT UT |
| HL-14-F51 | PIPE TO FLANGE | C-F-2 | CS | ISI-I-14-2B | MT UT |
| DB-23-F53 | ELBOW TO PIPE | C-F-2 | HPCI | ISI-I-23-5 | MT UT |
| HL-23-F20 | PIPE TO VALVE | C-F-2 | HPCI | ISI-I-23-4 | MT UT |
| 23-P205-3 | ELBOW TO PIPE | C-F-2 | HPCI | ISI-I-23-4 | MT UT |
| HL-13-F661 | PIPE TO ELBOW | C-F-2 | RCIC | ISI-I-13-3 | MT UT |
| GB-10-16-1C | PIPE TO ELBOW | C-F-2 | RHR | ISI-I-10-4ASH1 | MT UT |
| GB-10-F65 | ELBOW TO VALVE | C-F-2 | RHR | ISI-I-10-4ASH1 | MT UT |
| GB-10-F62A | PIPE TO VALVE | C-F-2 | RHR | ISI-I-10-4ASH2 | MT UT |
| GL-10-F102 | VALVE TO PENETRATION | C-F-2 | RHR | ISI-I-10-5BSH2 | MT UT |
| HL-10-2-1E | PIPE TO ELBOW | C-F-2 | RHR | ISI-I-10-5BSH1 | MT UT |
| GB-10-3-5E | ELBOW TO PIPE | C-F-2 | RHR | ISI-I-10-4BSH2 | MT UT |
| GR-10-15-1E | TEE TO TEE | C-F-2 | RHR | ISI-I-10-4BSH1 | MT UT |
| 30-8HL | HANGER LUG | D-B | RBCCW | ISI-I-30-1SH1 | VT-3 |
| HE-30-62PS | STANCHION | D-B | RBCCW | ISI-I-30-1SH1 | VT-3 |
| HE-30-7PS | STANCHION | D-B | RBCCW | ISI-I-30-1SH1 | VT-3 |
| HE-30-46PS | STANCHION | D-B | RBCCW | ISI-I-30-1SH2 | VT-3 |
| HE-30-53PS | STANCHION | D-B | RBCCW | ISI-I-30-2SH2 | VT-3 |
| HE-30-54PS | STANCHION | D-B | RBCCW | ISI-I-30-2SH2 | VT-3 |
| HE-30-440PS | STANCHION | D-B | RBCCW | ISI-I-30-1SH2 | VT-3 |
| HE-30-441PS | STANCHION | D-B | RBCCW | ISI-I-30-1SH2 | VT-3 |
| HE-30-442PS | STANCHION | D-B | RBCCW | ISI-I-30-1SH2 | VT-3 |
| JF-29-1321HL | HANGER LUG | D-B | SSW | ISI-I-29-1SH2 | VT-3 |
| JF-29-1333HL | HANGER LUG | D-B | SSW | ISI-I-29-1SH2 | VT-3 |
| H-50-1-TORUSBAY9 | TORUS SUPPORTS | F-A | CONT | C1A175SH1 & C1A-62-4 | VT-3 |
| H-23-1-4SR | RIGID HANGER | F-A | HPCI | ISI-I-23-4 | VT-3 |
| H-23-1-21 | RIGID HANGER | F-A | HPCI | ISI-I-23-4 | VT-3 |
| H-30-1-292 | GUIDE | F-A | RBCCW | ISI-I-30-1SH1 | VT-3 |
| H-30-1-62SA | ANCHOR | F-A | RBCCW | ISI-I-30-1SH1 | VT-3 |
| H-30-1-1SA | ANCHOR | F-A | RBCCW | ISI-I-30-2SH2 | VT-3 |
| H-13-1-43 | RESTRAINT | F-A | RCIC | ISI-I-13-1 | VT-3 |
| 0-1-87SA | ANCHOR | F-A | RHR | ISI-I-10-4ASH1 | VT-3 |

Table 1

**ISI EXAMINATIONS PERFORMED ON-LINE PRIOR TO RFO#13
by Entergy and Scienteck Corp.**

| Component | Description | Category | System | Isometric | Exam |
|------------------|--------------------|-----------------|---------------|------------------|-------------|
| H-10-1-41SG | GUIDE | F-A | RHR | ISI-I-10-5BSH1 | VT-3 |
| H-10-1-44SA | ANCHOR | F-A | RHR | ISI-I-10-1B | VT-3 |
| H-10-1-49SG | GUIDE | F-A | RHR | ISI-I-10-1B | VT-3 |
| H-12-1-113 | GUIDE | F-A | RWCU | ISI-I-12-2 | VT-3 |
| H-12-1-8 | SPRING HANGER | F-A | RWCU | ISI-I-12-2 | VT-3 |
| H-11-1-37 | GUIDE | F-A | SBLC | ISI-I-11-1 | VT-3 |
| H-11-1-40 | GUIDE | F-A | SBLC | ISI-I-11-1 | VT-3 |
| H-30-1-74SA | ANCHOR | F-A-CL4 | RBCCW | ISI-I-30-2SH1 | VT-3 |
| H-26-1-3SA | ANCHOR | F-A-CL4 | RHR | ISI-I-10-5BSH1 | VT-3 |

Table 2

ISI EXAMINATIONS PERFORMED DURING RFO#13
by Scientech Corp.

| Component | Description | Category | System | Isometric | Exam |
|-----------------|---------------------|----------|--------|--------------|-------|
| RPV-HF-120-240 | HEAD TO FLANGE | B-A | RPV | ISI-I-54-2 | MT UT |
| RPV-N10-NIR | NOZZLE INNER RADIUS | B-D | RPV | ISI-I-54-1 | UT |
| RPV-N10-NV | NOZZLE TO VESSEL | B-D | RPV | ISI-I-54-1 | UT |
| RPV-N6B-NIR | NOZZLE INNER RADIUS | B-D | RPV | ISI-I-54-1 | UT |
| RPV-N6B-NV | NOZZLE TO VESSEL | B-D | RPV | ISI-I-54-1 | UT |
| RPV-CB-19-36 | CLOSURE BUSHINGS | B-G-1 | RPV | ISI-I-54-2 | VT-1 |
| RPV-CHN-19-36 | CLOSURE HEAD NUTS | B-G-1 | RPV | ISI-I-54-2 | MT |
| RPV-CS-19-36 | CLOSURE STUDS | B-G-1 | RPV | ISI-I-54-2 | UT |
| RPV-CW-19-36 | CLOSURE WASHERS | B-G-1 | RPV | ISI-I-54-2 | VT-1 |
| RPV-FT-19-36 | THREADS IN FLANGE | B-G-1 | RPV | ISI-I-54-2 | UT |
| 1-VB-220-1 | VALVE BOLTING <2' | B-G-2 | MS | ISI-I-1-1SH2 | VT-1 |
| 1-VB-220-2 | VALVE BOLTING <2' | B-G-2 | MS | ISI-I-1-1SH2 | VT-1 |
| 13-VB-1301-16 | VALVE BOLTING | B-G-2 | RCIC | ISI-I-13-1 | VT-1 |
| 2R-FB-N1B-9BC-1 | FLANGE BOLTING | B-G-2 | RECIRC | ISI-I-2R-A | VT-1 |
| 2-VB-202-4B | VALVE BOLTING | B-G-2 | RECIRC | ISI-I-2R-B | VT-1 |
| 10-VB-1001-33A | VALVE BOLTING | B-G-2 | RHR | ISI-I-10-1 | VT-1 |
| 1C 1001-68A | VALVE BOLTING | B-G-2 | RHR | ISI-I-10-1 | VT-1 |
| 10-VB-1001-50 | VALVE BOLTING | B-G-2 | RHR | ISI-I-10-1A | VT-1 |
| 10-VB-1001-51 | VALVE BOLTING | B-G-2 | RHR | ISI-I-10-1A | VT-1 |
| RPV-FB-CRD | CRD BOLTING | B-G-2 | RPV | N/A | VT-1 |
| 11-VB-1101-1 | VALVE BOLTING | B-G-2 | SBLC | ISI-I-11-1 | VT-1 |
| 11-VB-1101-15 | VALVE BOLTING | B-G-2 | SBLC | ISI-I-11-1 | VT-1 |
| 14-B-17 | PIPE TO PENETRATION | B-J | CS | ISI-I-14-1 | UT |
| 14-B-18 | ELBOW TO PIPE | B-J | CS | ISI-I-14-1 | UT |
| 14-B-19 | PIPE TO ELBOW | B-J | CS | ISI-I-14-1 | UT |
| 14-B-20 | PIPE TO PIPE | B-J | CS | ISI-I-14-1 | UT |
| 6-A-10 | PIPE TO FLUED HEAD | B-J | FW | ISI-I-6-1 | UT |
| 6-A-12 | PIPE TO PIPE | B-J | FW | ISI-I-6-1A | UT |
| 23-I-16 | PIPE TO ELBOW | B-J | HPCI | ISI-I-23-1 | UT |
| 23-I-17 | VALVE TO PIPE | B-J | HPCI | ISI-I-23-1 | UT |
| 23-I-3 | ELBOW TO PIPE | B-J | HPCI | ISI-I-23-1 | UT |
| 23-O-17 | PENETRATION TO PIPE | B-J | HPCI | ISI-I-23-1 | UT |
| 23-O-18 | PIPE TO ELBOW | B-J | HPCI | ISI-I-23-1 | UT |
| 1-P 15 | FLUED HEAD TO PIPE | B-J | MS | ISI-I-1-1SH2 | UT |

Table 2

ISI EXAMINATIONS PERFORMED DURING RFO#13
by Scientech Corp.

| Component | Description | Category | System | Isometric | Exam |
|-----------------|---------------------------------------|----------|--------|----------------|-------|
| 13-O-18 | PIPE TO PIPE | B-J | RCIC | ISI-I-13-1 | UT |
| 13-O-19 | PIPE TO VALVE | B-J | RCIC | ISI-I-13-1 | UT |
| 2R-HB-1 | HEADER TO BEND | B-J | RECIRC | ISI-I-2R-B | UT |
| 2R-HB-4 | HEADER TO BEND | B-J | RECIRC | ISI-I-2R-B | UT |
| 10R-IB-12 | PENETRATION TO ELBOW | B-J | RHR | ISI-I-10-1 | UT |
| 12-O-24 | PENETRATION TO PIPE | B-J | RWCU | ISI-I-12-1SH1 | UT |
| 12R-O-7 | ELBOW TO PIPE | B-J | RWCU | ISI-I-12-1SH1 | UT |
| 10-O-25HL1(4) | SUPPORT LUGS | B-K-1 | RHR | ISI-I-10-1A | MT |
| RPV INTERIOR | VESSEL INTERIOR | B-N-1 | RPV | N/A | VT-3 |
| EB-23-59HL1(4) | SUPPORT LUGS | C-C | HPCI | ISI-I-23-2 | MT |
| HE-26-175HL1(1) | SUPPORT LUGS | C-C | HPCI | ISI-I-23-4 | MT |
| HB-13-F-HL1(2) | HANGER LUGS | C-C | RCIC | ISI-I-13-3 | MT |
| HL-10-200HL1(4) | SUPPORT LUGS | C-C | RHR | ISI-I-10-4ASH1 | MT |
| HB-10-91PS | PIPE STANCHION | C-C | RHR | ISI-I-10-1B | MT |
| HB-10-92HL1(4) | 4 HANGER LUGS | C-C | RHR | ISI-I-10-1B | MT |
| EB-23-F66 | PIPE TO ELBOW | C-F-2 | HPCI | ISI-I-23-2 | MT UT |
| SI HR-13 | PRESSURE BOUNDARY | C-H | RHR | ISI-I-10-1C | VT-2 |
| IWE-ANNDNRN-080 | ANNULUS DRAINS(2) AT 80 AZ. | E-C | CONT | ISI-IWE-AUG-1 | VT-2 |
| IWE-ANNDNRN-170 | ANNULUS DRAINS(2) AT 170 AZ. | E-C | CONT | ISI-IWE-AUG-1 | VT-2 |
| IWE-ANNDNRN-260 | ANNULUS DRAINS(2) AT 260 AZ. | E-C | CONT | ISI-IWE-AUG-1 | VT-2 |
| IWE-ANNDNRN-350 | ANNULUS DRAINS(2) AT 350 AZ. | E-C | CONT | ISI-IWE-AUG-1 | VT-2 |
| IWE-SNDCUSH-305 | AUGMENTED DRYWELL UT AT 9 FT 305 AZ. | E-C | CONT | ISI-IWE-AUG-1 | UT |
| IWE-UPDW-72-288 | AUGMENTED DRYWELL UT AT 72 FT 288 AZ. | E-C | CONT | ISI-IWE-AUG-1 | UT |
| IWE-UPDW-83-072 | AUGMENTED DRYWELL UT AT 83 FT 72 AZ. | E-C | CONT | ISI-IWE-AUG-1 | UT |
| IWE-UPDW-83-108 | AUGMENTED DRYWELL UT AT 83 FT 108 AZ. | E-C | CONT | ISI-IWE-AUG-1 | UT |
| IWE-CB-X213A | CONTAINMENT BOLTING | E-G | CONT | N/A | VT-1 |
| IWE-CB-X35A | CONTAINMENT BOLTING | E-G | CONT | N/A | VT-1 |
| IWE-CB-X4 | CONTAINMENT BOLTING | E-G | CONT | N/A | VT-1 |
| IWE-CB-X6 | CONTAINMENT BOLTING | E-G | CONT | N/A | VT-1 |
| IWE-CB-DWHEAD | CONTAINMENT BOLTING (DRYWELL HEAD) | E-G | CONT | N/A | VT-1 |
| H-14-1-40 | SPRING HANGER | F-A | CS | ISI-I-14-1 | VT-3 |
| H-14-1-41 | SPRING HANGER | F-A | CS | ISI-I-14-1 | VT-3 |
| H-6-1-68 | RIGID HANGER | F-A | FW | ISI-I-6-1A | VT-3 |
| H-6-1-69 | RIGID HANGER | F-A | FW | ISI-I-6-1A | VT-3 |

Table 2

**ISI EXAMINATIONS PERFORMED DURING RFO#13
by Scientech Corp.**

| Component | Description | Category | System | Isometric | Exam |
|------------|---------------|----------|--------|---------------|------|
| H-6-1-SS-3 | SNUBBER | F-A | FW | ISI-I-6-1 | VT-3 |
| H-6-1-SS-5 | SNUBBER | F-A | FW | ISI-I-6-1 | VT-3 |
| H-6-1-X9A | ANCHOR | F-A | FW | ISI-I-6-1 | VT-3 |
| H-23-1-77 | SPRING HANGER | F-A | HPCI | ISI-I-23-1 | VT-3 |
| H-23-1-80 | SPRING HANGER | F-A | HPCI | ISI-I-23-1 | VT-3 |
| H-1-1-X8 | ANCHOR | F-A | MS | ISI-I-1-1SH2 | VT-3 |
| H-1-1-HA3 | SPRING HANGER | F-A | MS | ISI-I-1-1SH1 | VT-3 |
| H-13-1-49 | SPRING HANGER | F-A | RCIC | ISI-I-13-1 | VT-3 |
| H-2-1-G1 | GUIDE | F-A | RECIRC | ISI-I-2R-A | VT-3 |
| H-4-1-1 | GUIDE | F-A | RWCU | ISI-I-12-1SH2 | VT-3 |
| H-11-1-24 | GUIDE | F-A | SBLC | ISI-I-11-1 | VT-3 |
| H-1-1-108 | RIGID SUPPORT | F-A-CL4 | MS | ISI-I-1-1SH2 | VT-3 |

RFO13 NONCONFORMANCE AND PROBLEM REPORTS

| PRs/NCRs | COMPONENT | DESCRIPTION | SYSTEM | REMARKS | DISPOSITION |
|------------------------|-----------------|---------------------|-------------------------|---|--------------|
| PR01.2145 | IWE-CB-X4 | CONTAINMENT BOLTING | CONT | PAINTED BOLTING | ACCEPT-AS-IS |
| PR01.2054 | FAC Pt. 283 | E104B Htr Shell | EXTRACTION STEAM | < T scr | ACCEPT-AS-IS |
| PR01.2111 | FAC Pt. 281 | E103B Htr Shell | EXTRACTION STEAM | < T scr | REPAIR |
| PR01.2163 | FAC Pt. 298 | HF16-15-1-1E | EXTRACTION STEAM | < T scr | ACCEPT-AS-IS |
| NCR 01-40 | FAC Pt. 290 | HF16-11-2-2N | EXTRACTION STEAM | HOLE IN 30" ELBOW ADJACENT TO PT 290. BALZONA REPAIR. | REPAIR |
| NCR 01-52 | FAC Pt. 308 | (8"x10")DE6-19-1-1D | FEEDWATER | NCR 01-52; WELD OVERLAY REQUIRED FOR REPAIR | REPAIR |
| NCR 01-46 | FAC Pt. 323 | HE17-FSK-16-G-1ORP | HEATER VENTS AND DRAINS | HOLE FOUND IN ELBOW | REPAIR |
| PR01.2066 | FAC Pt. 331 | EE7-3-4-1E | MAIN STEAM | < T scr | ACCEPT-AS-IS |
| PR01.2025 & PR01.2248 | FAC Pt. 307 | DE6-12-2-1E | FEEDWATER | < T scr | ACCEPT-AS-IS |
| NCR 01-032 | FAC Pt. 344 | D/S of CV-34 | RCIC | < Tmin | REPAIR |
| SCOPE EXPANSION | | | | | |
| PR01.2248 | FAC Pt.307X2 | DE6-12-2-1E | FEEDWATER | < T scr | ACCEPT-AS-IS |
| PR01.2235 | FAC Pt. 101A_NW | 45 ELBOW | EXTRACTION STEAM | < T scr | ACCEPT-AS-IS |
| NCR 01-47 | FAC Pt. 101A_NE | 45 ELBOW | EXTRACTION STEAM | < Tmin | ACCEPT-AS-IS |

RFO13 NONCONFORMANCE AND PROBLEM REPORTS

| PRs/NCRs | COMPONENT | DESCRIPTION | SYSTEM | REMARKS | DISPOSITION |
|-----------|-----------------|-------------|--------------------------|---------|--------------|
| PR01.2250 | FAC Pt. 101A_SE | 45 ELBOW | EXTRACTION STEAM | < T scr | ACCEPT-AS-IS |
| PR01.2243 | FAC Pt. 101B_NW | 45 ELBOW | EXTRACTION STEAM | < T scr | ACCEPT-AS-IS |
| PR01.2235 | FAC Pt. 101B_SE | 45 ELBOW | EXTRACTION STEAM | < T scr | ACCEPT-AS-IS |
| PR01.2411 | FAC Pt. 323X1 | 90 ELBOW | HEATER VENTS & DRAINS | < T scr | ACCEPT-AS-IS |

Table 4

RFO13 FLOW-ACCELERATED CORROSION EXAMINATIONS

| FAC COMPONENT | FAC DESCRIPTION | SYSTEM | LINE SIZE | LOCATION |
|---------------|-----------------------|--------------------|-----------|--|
| 283 | E104B Htr Shell | Extr Steam | n/a | CONDENSER BAY 6' (ADDITIONAL INFO.) |
| 282 | E105A Htr Shell | Extr Steam | n/a | CONDENSER BAY 6' (ADDITIONAL INFO.) |
| 281 | E103B Htr Shell | Htr Vents/Drains | n/a | CONDENSER BAY 27' (ADDITIONAL INFO.) |
| 292 | HF16-14-2-2N | Extr Steam | 30 | INSIDE CONDENSER 27' |
| 298 | HF16-15-1-1E | Extr Steam | 30 | INSIDE CONDENSER 31' |
| 48.1 | HF16-10-2-1NP | Extr Steam | 30 | INSIDE CONDENSER 31' |
| 290 | HF16-11-2-2N | Extr Steam | 30 | INSIDE CONDENSER 35' |
| 291 | HF16-14-2-1NP | Extr Steam | 30 | INSIDE CONDENSER 40' |
| 347 | DE6-17-2-1P | Feedwater | 10 | CONDENSER BAY 39' |
| 278 | E103A Htr Shell | Extr Steam | n/a | CONDENSER BAY 23' (ADDITIONAL INFO.) |
| 317 | E104B Drn Inlet Nozz | Moist Sep Drains | 12 | CONDENSER BAY 11' |
| 271 | HF(A)16-2N | Extr Steam | 24 | CONDENSER BAY ELV. 23' |
| 225.3 | (16")GF16-2-2-1R | Extr Steam | 16 | CONDENSER BAY 6' OFF E-105A ON EXTR. STM INLET |
| 316 | PreSep/Flash Tank | Moist Sep Drains | 18 | CONDENSER BAY 7' (DO APPROX. 36 IN. OF TANK FROM BOTTOM) |
| 308 | (8"x10")DE6-19-1-1D | Feedwater Clean-Up | 8 | CONDENSER BAY 29' ADJACENT TO FW REG. VALVES, 23' MEZZ. |
| 341 | 90 elb D/S of YS-8048 | HPCI | 1 | HPCI ROOM ELV. -11' |
| 309 | DE6-21-5-1ORP | Feedwater Clean-Up | 10 | AT COND. NOZZLE { 71 } E-107B, ELV. 27' ABOVE E-107B CONDENSER NW WATERBOX |
| 314 | GE17-FSK2-2N | Moist Sep Drains | 6 | CONDENSER BAY ELV. 8' |
| 335 | EE1-8-1-1VP | Main Steam | 3 | STEAM TUNNEL (VLV MO-220-2) ELV. 23' |
| 343 | D/S of CV-32 | RCIC | 1 | RCIC QUAD EL. -13' |
| 346 | 79A020-4E | RWCU | 2 | DRYWELL (UNDER VESSEL) |

Table 4

RFO13 FLOW-ACCELERATED CORROSION EXAMINATIONS

| FAC COMPONENT | FAC DESCRIPTION | SYSTEM | LINE SIZE | LOCATION |
|---------------|---|------------------|-----------|---|
| 231 | (16") GE18-15-5-2T | Condensate | 16 | CONDENSER BAY 39' |
| 222 | GE18-16-4-1P | Condensate | 14 | CONDENSER BAY ELV. 41' |
| 224 | GE18-16-4-1E | Condensate | 14 | CONDENSER BAY ELV. 41' |
| 228 | (16") GE18-15-7-1T | Condensate | 16 | CONDENSER BAY ELV. 39' |
| 313 | HE17-42-5-1N | Heater Drains | 16 | CONDENSER BAY 36' OFF HEATER 102B |
| 328 | GE17-FSK-13-1E | Moist Sep Vents | 6 | CONDENSER BAY 20' |
| 327 | GE16-4-1-1N | Moist Sep Vents | 6 | CONDENSER BAY 16' |
| 329 | GE17-FSK-16-6E | Moist Sep Vents | 2 | CONDENSER BAY 19' |
| 330 | MSR Discharge 36" Line (T-102D TO CIV-1) | Crossaround | 36 | CONDENSER BAY EL. 35' APPROX. |
| 336 | EE-1-7-1-1E | Main Steam | 3 | MAIN STEAM LINE LOW POINT DOWN TO CONDENSER, ELV. 16' (CONDENSER BAY) |
| 312 | HE17-28-4-1E | Heater Drains | 12 | CONDENSER BAY 31' (23' MEZZ.) EAST END OF E-103A LOOKING SOUTH |
| 321 | HE17-33-7-1E | Heater Vents | 2.5 | CONDENSER BAY 36' |
| 339 | (18"x16") GE18-20-1-1R | Condensate | 18 | CONDENSER BAY 39' |
| 333 | EE1-FSK-2-1VP | Main Steam | 2 | CONDENSER BAY 17', APPROX. 10' IN OVERHEAD SOUTH OF DRAIN COOLER 106B |
| 311 | HE17-19-3-1E | Heater Drains | 10 | CONDENSER BAY 16' |
| 299 | HE17-28-8-1N | Heater Drains | 12 | CONDENSER BAY 36' |
| 288 | HE17-10-2-1N | Htr Vents/Drains | 18 | CONDENSER BAY 28' (OFF MEZZ.) |
| 323 | HE17-FSK-16-G-1ORP | Heater Vents | 3 | CONDENSER BAY 32' |
| 305 | DL6-5-2-1E | Feedwater | 18 | DRYWELL 30' |

Table 4

RFO13 FLOW-ACCELERATED CORROSION EXAMINATIONS

| FAC COMPONENT | FAC DESCRIPTION | SYSTEM | LINE SIZE | LOCATION |
|----------------|----------------------|------------------|-----------|---|
| 310 | HE17-1-5-1N | Heater Drains | 6 | CONDENSER BAY 13' OFF E-104A (FLOOR EL. LOOKING UP AND SOUTH) NE SIDE OF E-104A |
| 320 | HE17-6-1-1E | Heater Vents | 2.5 | CONDENSER BAY 12' (NOZZLE OFF E-104A) |
| 331 | EE7-3-4-1E | Main Steam | 10 | CONDENSER BAY 11' |
| 268 | SK-2105-9E | MS Aux | 4 | CONDENSER BAY 31' (BY MS STOP VLVS) |
| 337 | HE1-8-1-2T | Main Steam | 6 | CONDENSER BAY 34' |
| 348 | 1-HO-153 | Main Steam | 4 | "A" RECOMB. 32' |
| 306 | (4"x3")DE6-1-3-1R | Feedwater | 4 | MAIN COND.EAST SIDE ELV. 12' |
| 287 | HE17-2-4-1E | Htr Vents/Drains | 10 | CONDENSER BAY 11' |
| 295 | DE6-4-1-1E | Feedwater | 16 | CONDENSER BAY 7' (E-104B) |
| 304 | (16"x14")DE6-10-6-1D | Feedwater | 16 | CONDENSER BAY 25' |
| 303 | GE18-19-5-1E | Condensate | 14 | TURBINE BUILDING 54' |
| 108.2 | (d/s) DL6-7-1-1P | Feedwater | 12 | DRYWELL 42 FT. |
| 293 | DE6-20-1-1E | Feedwater | 12 | TURBINE BLDG. ELV. 54' P-103C DISCHARGE |
| 294 | DE6-20-3-1E | Feedwater | 12 | TURBINE BLDG. ELV. 54' P-103C DISCHARGE |
| 284 | HE17-2-3-1N | Htr Vents/Drains | 10 | CONDENSER BAY 11' |
| 285 & 55, 55.1 | (10"x8") HE17-2-4-1R | Htr Vents/Drains | 10 | CONDENSER BAY 26' |
| 332 | HE25-FSK-18-4N | Main Steam | 1 | CONDENSER BAY 32' |
| 307 | DE6-12-2-1E | Feedwater | 4 | TURBINE BLDG. ELV. 55' P-103A DISCHARGE |
| 301 | HE25-10-4-1P | Extr Steam | 3 | CONDENSER BAY 27' |
| 338 | HE25-FSK10-6E | Main Steam | 2 | CONDENSER BAY 11' |
| 344 | D/S of CV-34 | RCIC | 1 | RCIC QUAD EL. -13' |

Table 4

RFO13 FLOW-ACCELERATED CORROSION EXAMINATIONS

| FAC COMPONENT | FAC DESCRIPTION | SYSTEM | LINE SIZE | LOCATION |
|------------------------|-------------------------|-----------------------|-----------|---|
| 345 Online | D/S of RO-1001-73B | RHR | 2 | RHR ROOM EL. -8' |
| 342 Online | D/S of RO1301-7 | RCIC | 2 | RCIC QUAD EL. -14' |
| SCOPE EXPANSION | | | | |
| 344X1 | D/S of CV-34 | RCIC | 1 | RCIC QUAD EL. -13' |
| 307X1 | DE6-12-2-1E | Feedwater | 4 | TURBINE BLDG. ELV. 55' P-103B DISCHARGE |
| 307X2 | DE6-12-2-1E | Feedwater | 4 | TURBINE BLDG. ELV. 55' P-103C DISCHARGE |
| 290(hole) | 45 ELBOW (ABOVE PT 290) | Extr Steam | 30 | INSIDE 'A' CONDENSER |
| 101A_NW | 45 ELBOW | Extr Steam | 30 | INSIDE 'A' CONDENSER |
| 101A_NE | 45 ELBOW | Extr Steam | 30 | INSIDE 'A' CONDENSER |
| 101A_SE | 45 ELBOW | Extr Steam | 30 | INSIDE 'A' CONDENSER |
| 101B_NW | 45 ELBOW | Extr Steam | 30 | INSIDE 'B' CONDENSER |
| 101B_SW | 45 ELBOW | Extr Steam | 30 | INSIDE 'B' CONDENSER |
| 101B_SE | 45 ELBOW | Extr Steam | 30 | INSIDE 'B' CONDENSER |
| 323X1 | 90 ELBOW | HEATER VENTS & DRAINS | 3 | CONDENSER BAY |
| 308X1 | REDUCER | FEEDWATER | 8 | CONDENSER BAY |

Table 5**RFO13 ISI OUTAGE AND ONLINE MAINTENANCE REQUESTS****ISI SCOPE**

| MR | SYSTEM | LOOP |
|-----------|---------------|-------------|
| 10000534 | SSW | A LOOP |
| 10000534 | SSW | B LOOP |
| 10000535 | CRD | N/A |
| 10000536 | RWCU | N/A |
| 10000537 | SBLC | N/A |
| 10000538 | CONT | N/A |
| 10000539 | CS | A LOOP |
| 10000540 | CS | B LOOP |
| 10000541 | FW | N/A |
| 10000542 | HPCI | N/A |
| 10000543 | MS | N/A |
| 10000544 | RBCCW | A LOOP |
| 10000545 | RBCCW | B LOOP |
| 10000546 | RCIC | N/A |
| 10000547 | RECIRC | B LOOP |
| 10000548 | RHR | SDC/ A LOOP |
| 10000549 | RHR | B LOOP |
| S9702202 | SLT RHR-13 | LEAK CHECK |
| 10000550 | RPV | N/A |
| 10000531 | IVVI | N/A |
| 01100698 | CLASS 1 HYDRO | N/A |

FAC SCOPE

| | | |
|----------|------------------|-----|
| 10000326 | CONDENSATE | N/A |
| 10000324 | EXTR STEAM | N/A |
| 10000320 | FEEDWATER | N/A |
| 10000327 | HPCI | N/A |
| 10000325 | HTR VENTS/DRAINS | N/A |
| 10000319 | MAIN STEAM | N/A |

Table 5

RFO13 ISI OUTAGE AND ONLINE MAINTENANCE REQUESTS

| MR | SYSTEM | LOOP |
|-----------|---------------|-------------|
| 10000323 | RCIC | N/A |
| 10001658 | RHR | N/A |
| 10000322 | RWCU | N/A |

SSW SPEC. M-591 SCOPE

| | | |
|----------|-----|--------|
| P1000134 | SSW | B LOOP |
| P1000135 | SSW | A LOOP |

Table 6

NON-SCHEDULED EXAMINATIONS PERFORMED 1999-2001

| ATASHEET | COMPONENT | SYSTEM | EXAM TYPE | DATE | MR |
|-------------|---|--------|-----------|---------|----------|
| VT-23-01005 | 23-CK-2301-216 PIPE RPLMT. | HPCI | VT-2 | 5/18/01 | E0000055 |
| VT-29-01006 | AO3925 | SSW | VT-2 | 5/14/01 | P9501192 |
| VT-54-01002 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01003 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01004 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01005 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01006 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01007 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01008 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01009 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01010 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01011 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01012 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01013 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01014 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-54-01015 | CLASS 1 SLT | RPV | VT-2 | 5/13/01 | 01100698 |
| VT-29-01005 | 29-HO-3824 | SSW | VT-2 | 5/11/01 | 01103685 |
| 01-V-360 | RV-203-3C (8) NUTS MRIR No. 85-492 | MS | VT-1 | 5/8/01 | 10000780 |
| VT-10-01011 | SLT RHR-8 | RHR | VT-2 | 5/8/01 | N/A |
| VT-14-01006 | SLT CS-1 | CS | VT-2 | 5/8/01 | N/A |
| VT-2-01002 | H-2-1-SS15 | RECIRC | VT-3 | 5/8/01 | 01107704 |
| VT-1-01004 | SS1-10-13 | MS | VT-3 | 5/7/01 | 19902511 |
| VT-29-01004 | SPOOLS 6-2, 6-3, 2-4B | SSW | VT-2 | 5/7/01 | 01103679 |
| 01-V-344 | CRD HATCH 3 NUTS | RPV | VT-1 | 5/6/01 | P0000174 |
| 01-V-361 | RV-203-3B (3) NUTS MRIR No. 85-493 | MS | VT-1 | 5/6/01 | 10000782 |
| VT-29-01003 | H-29-1-2SR | SSW | VT-3 | 5/6/01 | 10000859 |
| VT-10-01008 | H-10-1-SS21 | RHR | VT-3 | 5/5/01 | 19902535 |
| VT-10-01010 | SLT RHR-4,-12,-13,-14 | RHR | VT-2 | 5/4/01 | S9702202 |
| VT-2-01003 | H-2-1-SS13 | RECIRC | VT-3 | 5/3/01 | 01108328 |
| VT-2-01004 | H-2-1-SS13 | RECIRC | VT-3 | 5/3/01 | 19702563 |
| VT-2-01006 | H-2-1-SS14 | RECIRC | VT-3 | 5/3/01 | 01108329 |
| 01-V-319 | (2) BOLTS MRIR No. 85-164 & (4) NUTS MRIR No. 90-1996 | MS | VT-1 | 5/2/01 | 19801736 |
| 01-E-251 | 1-SD-10R | MS | UT | 5/1/01 | 19900065 |
| 01-E-253 | 1-SD-10R | MS | UT | 5/1/01 | 19900065 |

Table 6

NON-SCHEDULED EXAMINATIONS PERFORMED 1999-2001

| ATASHEET | COMPONENT | SYSTEM | EXAM TYPE | DATE | MR |
|-------------|--|--------|-----------|----------|------------|
| 01-M-249 | 1-SD-10R | MS | MT | 5/1/01 | 19900065 |
| VT-2-01005 | H-2-1-SS14 | RECIRC | VT-3 | 5/1/01 | 19702564 |
| VT-10-01007 | H-10-1-SS22 | RHR | VT-3 | 4/30/01 | 19902533 |
| VT-29-01007 | SPOOLS 10-12, -10, -11, 4-4 | SSW | VT-2 | 4/30/01 | 01103680 |
| 01-V-222 | E.P.C. PROBE FLANGE & COVER STUDS AND NUTS | RECIRC | VT-1 | 4/29/01 | 19902009 |
| VT-10-01006 | H-10-1-32SR | RHR | VT-3 | 4/29/01 | E0000120 |
| VT-10-01009 | H-10-1-SS23 | RHR | VT-3 | 4/29/01 | 19902532 |
| VT-14-01004 | H-14-1-18S | CS | VT-3 | 4/29/01 | 19902538 |
| VT-14-01005 | H-14-1-16S | CS | VT-3 | 4/29/01 | 19902538 |
| VT-2-01007 | H-2-1-SS22 | RECIRC | VT-3 | 4/29/01 | 19702570 |
| 01-V-231 | 1-VB-220-2 | MS | VT-1 | 4/27/01 | 1900065 |
| VT-11-01004 | SLT SBLC-1 | SBLC | VT-2 | 4/27/01 | PNPS 8.4.6 |
| VT-2-01008 | H-2-1-SS11 | RECIRC | VT-3 | 4/27/01 | 19902526 |
| VT-2-01009 | H-2-1-SS12 | RECIRC | VT-3 | 4/27/01 | 19902526 |
| VT-29-01008 | BURIED DISCHARGE PIPING (BOTH LOOPS) | SSW | VT-2 | 4/17/01 | N/A |
| VT-6-01006 | SLT FW-1 | FW | VT-2 | 4/17/01 | N/A |
| 01-V-134 | (16) STUDS MRIR No. 010292 | RECIRC | VT-1 | 4/4/01 | 1102902 |
| 01-V-126 | 32 NUTS MRIR No. 01-0257 | RECIRC | VT-1 | 4/2/01 | 1102902 |
| VT-65-01001 | SLT PASS-2 | PASS | VT-2 | 3/22/01 | N/A |
| 01-V-037 | CRD CAP SCREWS 1 1/8 x 5 1/2" MRIR No. 01-0101 (224 items) | CRD | VT-1 | 2/23/01 | 19902366 |
| VT-14-01003 | SLT CS-1,6,7,8 | CS | VT-2 | 2/12/01 | N/A |
| VT-30-01014 | SLT RBCCW-12 | RBCCW | VT-2 | 1/16/01 | N/A |
| VT-10-00007 | SLT RHR-1,7 | RHR | VT-2 | 11/9/00 | N/A |
| VT-30-00010 | SLT RBCCW-5,7-15 (M-593) | RBCCW | VT-2 | 11/7/00 | N/A |
| VT-13-00002 | SLT RCIC-5 | RCIC | VT-2 | 11/6/00 | N/A |
| VT-29-00004 | SLT SSW-1 | SSW | VT-2 | 11/6/00 | N/A |
| VT-30-00009 | SLT RBCCW-7 | RBCCW | VT-2 | 11/6/00 | N/A |
| 00-V-023 | 4 NUTS MRIR NO.00-9609 | MS | VT-1 | 11/1/00 | 19901180 |
| VT-13-00001 | SLT RCIC-1,2,3,4,5 | RCIC | VT-2 | 10/26/00 | N/A |
| VT-10-00006 | SLT RHR-1,6,7,9 | RHR | VT-2 | 10/2/00 | N/A |
| VT-30-00008 | SLT RBCCW-1,3,5 | RBCCW | VT-2 | 10/2/00 | N/A |
| VT-14-00001 | SLT CS-1,2,3,4,5 | CS | VT-2 | 6/27/00 | N/A |

Table 6

NON-SCHEDULED EXAMINATIONS PERFORMED 1999-2001

| ATASHEET | COMPONENT | SYSTEM | EXAM TYPE | DATE | MR |
|-------------|---|--------|-----------|----------|----------|
| VT-30-00004 | P-202D PUMP MECH. SEAL | RBCCW | VT-2 | 5/31/00 | E9900021 |
| VT-29-00003 | P-208D | SSW | VT-2 | 5/2/00 | 10000369 |
| VT-23-00005 | SLT HPCI-3 | HPCI | VT-2 | 4/26/00 | N/A |
| VT-30-00005 | SLT RBCCW-5 | RBCCW | VT-2 | 4/26/00 | N/A |
| VT-30-00006 | SLT RBCCW-5 | RBCCW | VT-2 | 4/26/00 | N/A |
| VT-30-00011 | SLT RBCCW-5 | RBCCW | VT-2 | 4/26/00 | N/A |
| VT-10-00001 | SLT RHR-1 | RHR | VT-2 | 4/4/00 | S0000254 |
| VT-10-00002 | SLT RHR-2 | RHR | VT-2 | 4/4/00 | S0000254 |
| VT-10-00003 | SLT RHR-3 | RHR | VT-2 | 4/4/00 | S0000254 |
| VT-10-00004 | SLT RHR-5 | RHR | VT-2 | 4/4/00 | S0000254 |
| VT-10-00005 | SLT RHR-5 | RHR | VT-2 | 4/4/00 | S0000254 |
| VT-30-00002 | TBCCW (non-code) LEAK CHECKS FOR MSTP NODE S001262 | TBCCW | VT-2 | 3/30/00 | N/A |
| VT-30-00003 | P-202F PUMP MECH. SEAL | RBCCW | VT-2 | 3/11/00 | E9900019 |
| VT-23-00004 | SLT HPCI-3 | HPCI | VT-2 | 3/8/00 | N/A |
| VT-30-00007 | SLT RBCCW-2 | RBCCW | VT-2 | 3/8/00 | N/A |
| VT-29-00002 | AO-3915 LEAK CHECK | SSW | VT-2 | 3/3/00 | 19800564 |
| VT-23-00001 | SLT HPCI-4 | HPCI | VT-2 | 3/1/00 | N/A |
| VT-23-00002 | SLT HPCI-2 | HPCI | VT-2 | 3/1/00 | N/A |
| VT-23-00003 | SLT HPCI-1 | HPCI | VT-2 | 3/1/00 | N/A |
| VT-29-00001 | H-29-1-21 BASELINE | SSW | VT-3 | 1/31/00 | 19902594 |
| 00-V-002 | (7) NUTS 1 1/8" X 12 GR.7 | MS | VT-1 | 1/25/00 | 19901180 |
| 00-V-003 | (1) BOLT 1 1/8" X 12 X 6 1/4 GR. B7 | MS | VT-1 | 1/25/00 | 19901180 |
| 00-V-004 | (2) STUDS 1 1/8" X 12 X 6 GR. B7 | MS | VT-1 | 1/25/00 | 19901180 |
| VT-30-00001 | P202A MECHANICAL SEAL | RBCCW | VT-2 | 12/29/99 | E9900018 |
| VT-30-99031 | P-202E MECH. SEAL | RBCCW | VT-2 | 11/22/99 | E9900022 |
| VT-30-99042 | SLT RBCCW-1 & 7 | RBCCW | VT-2 | 11/15/99 | N/A |
| VT-30-99043 | SLT RBCCW-8 | RBCCW | VT-2 | 11/15/99 | N/A |
| VT-30-99044 | SLT RBCCW-3 | RBCCW | VT-2 | 11/15/99 | N/A |
| VT-30-99038 | SLT RBCCW-9 | RBCCW | VT-2 | 11/9/99 | N/A |
| VT-30-99040 | SLT RBCCW-1 | RBCCW | VT-2 | 11/9/99 | N/A |
| VT-30-99041 | SLT RBCCW-13 | RBCCW | VT-2 | 11/9/99 | N/A |
| VT-29-99014 | SLT SSW-2 | SSW | VT-2 | 11/8/99 | N/A |
| VT-29-99015 | SLT SSW-1 | SSW | VT-2 | 11/8/99 | N/A |

Table 6**NON-SCHEDULED EXAMINATIONS PERFORMED 1999-2001**

| ATASHEET | COMPONENT | SYSTEM | EXAM TYPE | DATE | MR |
|-----------------|------------------------------------|---------------|------------------|-------------|-----------|
| VT-29-99016 | SLT SSW-3 | SSW | VT-2 | 11/8/99 | N/A |
| VT-30-99029 | P-202C MECH. SEAL | RBCCW | VT-2 | 11/1/99 | E9900020 |
| VT-30-99032 | SLT RBCCW-1 | RBCCW | VT-2 | 10/29/99 | N/A |
| VT-30-99033 | SLT RBCCW-7 | RBCCW | VT-2 | 10/29/99 | N/A |
| VT-30-99034 | SLT RBCCW-4 | RBCCW | VT-2 | 10/29/99 | N/A |
| VT-30-99035 | SLT RBCCW-6 | RBCCW | VT-2 | 10/29/99 | N/A |
| VT-30-99036 | SLT RBCCW-10 | RBCCW | VT-2 | 10/29/99 | N/A |
| VT-30-99037 | SLT RBCCW-11 | RBCCW | VT-2 | 10/29/99 | N/A |
| VT-30-99039 | SLT RBCCW-9 | RBCCW | VT-2 | 10/29/99 | N/A |
| VT-13-99004 | MO1301-17 PWT | RCIC | VT-2 | 7/1/99 | 19803030 |
| VT-10-99013 | 10CK-1001-2B VALVE PWT | RHR | VT-2 | 6/26/99 | E9700056 |
| VT-10-99014 | 10CK-1001-2D VALVE PWT | RHR | VT-2 | 6/26/99 | E9700055 |
| VT-29-99013 | SPOOL PIECE JF29-6-4 AND CONNECTS. | SSW | VT-2 | 6/26/99 | 19901458 |
| VT-1-99005 | RV203-41 BOLTING | MS | VT-3 | 6/21/99 | 19801172 |

RFO 13

FORM NIS-1

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Entergy
(Name and Address of Owner)

2. Plant Pilgrim Nuclear Power Station, 600 Rocky Hill Road, Plymouth, Mass. 02360
(Name and Address of Plant)

3. Plant Unit #1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 12-9-72 6. National Board Number for Unit 20763

7. Components Inspected

[illegible]

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

FORM NIS-1 (back)

8. Examination Dates 6-20-99 to 5-19-01 9. Inspection Interval from 6-30-95 to 6-30-05
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See ISI Summary Report
11. Abstract of Conditions noted. See ISI Summary Report
12. Abstract of Corrective Measures Recommended and Taken. See ISI Summary Report and NIS-2 Forms

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date 7/24/ 2001 Signed Entergy By R. J. Sheridan
Owner QA Manager

Certificate of Authorization No. (if applicable) N/A Expiration Date 7-24-01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of MA and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the components described in this Owners' Data Report during the period of 6-20-99 to 5-19-01, 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 Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date 7/24/ 2001

[Signature]
Inspector's Signature

Commissions MA 1420

National Board, State, Province and No.

RFO 13

FORM NIS-2

Entergy

Pilgrim Nuclear Power Station

Form NIS-2 Owner's Report

for

Repairs or Replacements of S/C Items/Components

RFO 13 - 2001

Prepared by: Steven E Cook
Preparer

Reviewed by: Richard D Pardee
Senior ISI Engineer

Approved by: R. S. Sheridan
QA Manager

Approved by: [Signature]
ANII

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

| | |
|---|---|
| 1. Owner <u>Entergy Louisiana, Inc.</u> <div style="margin-left: 40px;">Name</div> <div style="margin-left: 40px;">639 Loyola Ave., New Orleans, LA 70113</div> <div style="margin-left: 40px;">Address</div> | Date _____ Sheet <u>1</u> of <u>2</u> Unit _____ <u>1</u> _____ <div style="margin-left: 40px;">See Attached NIS-2 Summary Form</div> Repair Organization P.O. No. Job No., etc. _____ |
| 2. Plant <u>Entergy Nuclear Generation Co.</u> <div style="margin-left: 40px;">Pilgrim Nuclear Power Station</div> <div style="margin-left: 40px;">Name</div> <div style="margin-left: 40px;">Rocky Hill Road, Plymouth, MA 02360</div> <div style="margin-left: 40px;">Address</div> | 3. Work Performed by <u>Pilgrim Nuclear Power Station</u> <div style="margin-left: 40px;">Name</div> <div style="margin-left: 40px;">600 Rocky Hill Road, Plymouth, MA 02360</div> |
| | Type Code Symbol Stamp _____ <u>N/A</u> Authorization No. _____ <u>N/A</u> Expiration Date _____ <u>N/A</u> |

5. (a) Applicable Construction Code ANSI B31.1 **19** 67 **Edition** No **Addenda** No **Code Case**

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 **Winter 80 Addenda**

6. Identification of Components Repaired or Replaced and Replacement Components

See attached NIS-2 Summary Form for Description for Work Completed

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work _____

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure _____ Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See Attached NIS-2 Summary Form

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

R.S. Sheridan, QA MGR.
Owner or Owner's Designee, Title

Date

7-24, 2001

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the components described in this Owner's Reports during the period 6-20-99 to 5-19-01 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 MA 1420

National Board, State, Province, and Endorsements

Date

7-24-2001

FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIRS OR REPLACEMENTS
RFO 13 - 2001
PILGRIM NUCLEAR POWER STATION
Rocky Hill Road, Plymouth, Ma.

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Ident. | Name of Mfg. | Mfg. S/N | Entergy or Nat. Brd. No. | MR Number | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped | Description of Work Performed | Test Conducted |
|-------------------|---------------|----------------|----------|--|-----------|------------|-----------------------------------|-------------------|---|---------------------------|
| Valve | RWCU | Anchor Darling | — | 1201-80 | E0000053 | 1984 | Replacement | No | Replaced Valve Disk | System Leak Test |
| Valve | SSW | Henry Pratt | — | AO-3925 | P9501192 | 2000 | Replacement | No | Replaced Valve | System Leak Test |
| Bolting | Recirc | — | — | A-Loop Decon Flange | 19902009 | — | Replaced | No | Replaced Bolting | System Leak Test |
| Valve | RHR | Limitorque | — | 1001-34B | E0000054 | — | Repair | No | Installed Pressure Lock Modification | L.L.R.T. |
| Pump | RBCCW | Ingersoll Rand | — | P-202 | E9900021 | — | Replace | No | Replaced Mechanical Seal | System Leak Test |
| Rupture Disk | RCIC | BS&B | — | PSD-1301-9 | 19901512 | 1999 | Replace | No | Replaced Rupture Disk | System Leak Test |
| Bolting | RBCCW | — | — | E-209B | 10001074 | 1967 | Replace | No | Replaced Bolting At Bell and Channel Ends | System Leak Test |
| LPRM | RPV | G.E. | — | 12-29, 12-37, 20-13, 28-31 36-21, 36-29, 28-29, 28-45, 44-13 | 10000901 | — | Replacement | No | Replaced LPRM Detectors | VT-2 During Class 1 Hydro |

FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIRS OR REPLACEMENTS
RFO 13 - 2001
PILGRIM NUCLEAR POWER STATION
Rocky Hill Road, Plymouth, Ma.

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Ident. | Name of Mfg. | Mfg. S/N | Entergy or Nat. Brd. No. | MR Number | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped | Description of Work Performed | Test Conducted |
|-------------------|---------------|----------------|------------------|--------------------------|-----------|------------|-----------------------------------|-------------------|-------------------------------|------------------|
| Pipe Spool | SSW | Entergy | None | JF29-4-4 | 10000861 | 2001 | Replacement | No | Replaced Spool | System Leak Test |
| Valve | SSW | Henry Pratt | Mono - Flange II | 29-HO-3824 | 19902547 | 2000 | Replacement | No | Replaced Valve | System Leak Test |
| Valve | SSW | Henry Pratt | Mono Flange II | MO-3801 | 19902710 | 2000 | Replacement | No | Replaced Valve | System Leak Test |
| Snubber | FW | Anchor Darling | — | SS-6-10-7 | 19902530 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | Recirc | Anchor Darling | 413 | SS-2-20-20 | 19702566 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | Recirc | Anchor Darling | 492 | SS-2-30-11 | 19902526 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | Recirc | Anchor Darling | 417 | SS-2-30-12 | 19702562 | — | Replacement | No | Replaced Snubber | Functional Test |

FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIRS OR REPLACEMENTS
RFO 13 - 2001
PILGRIM NUCLEAR POWER STATION
Rocky Hill Road, Plymouth, Ma.

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Ident. | Name of Mfg. | Mfg. S/N | Entergy or Nat. Brd. No. | MR Number | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped | Description of Work Performed | Test Conducted |
|-------------------|---------------|----------------|----------|--------------------------|-----------|------------|-----------------------------------|-------------------|-------------------------------|-----------------|
| Snubber | Recirc | Anchor Darling | — | SS-2-20-24 | 19702570 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | Recirc | Anchor Darling | — | SS-2-20-22 | 19902527 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | Recirc | Anchor Darling | 414 | SS-2-20-21 | 19702567 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | Recirc | Anchor Darling | 493 | SS-2-30-14 | 19702564 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | Recirc | Anchor Darling | 495 | SS-2-30-13 | 19702563 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | RHR | Anchor Darling | 487 | SS-10-20-2 | 19902533 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | RHR | Anchor Darling | 0069 | SS-10-30-06 | 19902534 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | RHR | Anchor Darling | 496 | SS-10-20-3 | 19902532 | — | Replacement | No | Replaced Snubber | Functional Test |

FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIRS OR REPLACEMENTS
RFO 13 - 2001
PILGRIM NUCLEAR POWER STATION
Rocky Hill Road, Plymouth, Ma.

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Ident. | Name of Mfg. | Mfg. S/N | Entergy or Nat. Brd. No. | MR Number | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped | Description of Work Performed | Test Conducted |
|-------------------|---------------|----------------|----------|--------------------------|-----------|------------|-----------------------------------|-------------------|-------------------------------|------------------|
| Snubber | MS | Anchor Darling | 435 | SS-01-10-09 | 19902507 | — | Replacement | No | Replaced Snubber | Functional Test |
| Snubber | HPCI | Anchor Darling | 407 | SS-23-20-37 | 19902540 | — | Replacement | No | Replaced Snubber | Functional Test |
| Bolting | MS | Target Rock | N/A | RV-203-3 | 19901180 | — | Replacement | No | Replaced Bolting | VT-1 |
| Valve | MS | Target Rock | N/A | RV-203-3 | 19901180 | — | Replaced | No | Replaced Main Stage | System Leak Test |
| Valve | MS | Dresser | 6309 | RV-203-4A | 19801736 | 1968 | Replaced | No | Replaced Safety Valve | System Leak Test |
| Valve | MS | Atwood Morrill | N/A | AO-203-2C | 10000778 | — | Repaired | No | Repaired Guide Rib | System Leak Test |
| Valve | MS | Target Rock | 1046 | RV-203-3B | 10000782 | 1980 | Replaced | No | Replaced Pilot Main | System Leak Test |
| Valve | MS | Target Rock | 1025 | RV-203-3B | 10000782 | 1980 | Replaced | No | Replaced Pilot Main | System Leak Test |

FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIRS OR REPLACEMENTS
RFO 13 - 2001
PILGRIM NUCLEAR POWER STATION
Rocky Hill Road, Plymouth, Ma.

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Ident. | Name of Mfg. | Mfg. S/N | Entergy or Nat. Brd. No. | MR Number | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped | Description of Work Performed | Test Conducted |
|-------------------|---------------|---------------|----------|---|----------------------|------------|-----------------------------------|-------------------|-------------------------------|------------------|
| Pump Bowl | SSW | Johnston Pump | None | P-208D | 19702057 10000369 | 98 | Replacement | No | Replaced Bowl | System Leak Test |
| Bolting | SSW | Johnston Pump | None | P-208D | 19702057 10000369 | 97 | Replacement | No | Replaced Bolting | System Leak Test |
| Pump Columns | SSW | Johnston Pump | None | P-208D | 19702057 10000369 | 97 | Replacement | No | Replaced Columns | System Leak Test |
| Pipe Spool | SSW | Entergy | None | JF-29-13-7 | 10000254 | 70 | Repair | No | Repaired | System Leak Test |
| Pipe Spool | SSW | Entergy | None | JF29-6-2, -3 JF29-7-4, -5, -6 JF29-1-8 | 10000859 | 2001 | Replacement | No | Replaced Spools | System Leak Test |
| Pipe Spool | SSW | Entergy | None | JF29-2-4B | E0000075 | 2001 | Replacement | No | Replaced Spool | System Leak Test |
| Valve | SSW | — | None | 29-HO-39A | E0000075 | 2000 | Replacement | No | Replaced Valve | System Leak Test |
| Pipe Spool | SSW | Entergy | None | JF29-10-3 JF29-10-10 JF29-10-11 JF29-10-12 | 10000860 | 2001 | Replacement | No | Replaced Spool | System Leak Test |

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RFO 13 - 2001
PILGRIM NUCLEAR POWER STATION
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Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Ident. | Name of Mfg. | Mfg. S/N | Entergy or Nat. Brd. No. | MR Number | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped | Description of Work Performed | Test Conducted |
|-------------------|---------------|--------------|----------|--|-----------|------------|-----------------------------------|-------------------|-------------------------------|---------------------------|
| Bolting | CRD | G.E. | — | 22-31, 50-35, 38-15, 50-23, 30-47, 26-13, 34-51, 46-43, 38-51, 22-15, 10-39, 50-19, 26-31, 34-31, 50-27 | 19902366 | — | Replacement | No | Replaced CRD Flange Bolting | VT-2 During Class I Hydro |