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Director, Nuclear Assessment

10 CFR 50.55(g)(5)

August 1, 2003

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

**SUBJECT:** Entergy Nuclear Operations, Inc.  
Pilgrim Nuclear Power Station  
Docket 50-293  
License No. DPR-35  
  
Pilgrim Refueling Outage (RFO) - 14 Inservice Inspection (ISI) Summary  
Report

**REFERENCE** 1. Entergy Letter No. 2.03.045, Pilgrim Station 2003 On-Line and  
Refueling Outage (RFO) - 14 Inservice Inspection (ISI) Plan,  
dated April 14, 2003

**LETTER NUMBER:** 2.03.094

The enclosed report provides a tabulation of all inservice examinations and code repairs/replacements performed at Pilgrim Station from the end of RFO-13 through RFO-14. The scope of RFO-14 inservice inspection was described in Reference 1.

Changes from the RFO-14 ISI Plan (Reference 1) are as follows:

- Four recirculation system N2 inlet nozzle dissimilar metal safe-end-welds were not examined due to automated scanner mechanical problems experienced by the inspection vendor. These four welds will be examined in accordance with BWRVIP-75 and Supplement 10 to Appendix VIII/PDI requirements during RFO-15. This exception does not require relief from the ASME Code or 10 CFR 50.55a requirements, as 50.55a and code required examinations have been completed.

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- Of the total 12 vertical shell welds, 8 were examined using the IHI AIRIS remote scanning tool as opposed to the 6 scheduled welds.
- The entire RPV shell-to-flange weld was examined during RFO-14 from the vessel interior side from two directions using IHI AIRIS tool with Appendix VIII/PDI techniques.
- A total of 65 (out of 72) ultrasonic examinations for flow-accelerated corrosion effects were performed in accordance with NRC Generic Letter 89-08. Seven planned examinations were postponed to RFO-15 due to schedule constraints.
- Three jet pump beams were examined for mid-span cracking as part of the in-vessel examination. One core spray weld was examined to IE Bulletin 80-13 sensitivity.
- In-service visual examinations of replaced CRD bolting were not performed due to a recent change in 10 CFR 50 that eliminates this inspection requirement for CRD bolting that is not re-used. Pre-service visual examinations of the new bolting were performed.

Copies of examination vendor reports and data sheets are retained at Pilgrim Station for NRC review, if required.

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 Bryan Ford at (508) 830-8403.



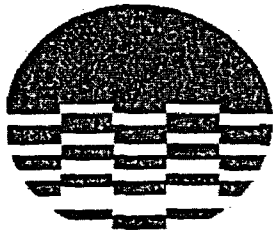
for William J. Riggs

Enclosure: Inservice Inspection Summary Report for Refuel Outage 14 At Pilgrim Nuclear Power Station, dated April 2003 (35 pages)

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# Entergy

## INSERVICE INSPECTION SUMMARY REPORT FOR REFUEL OUTAGE 14 AT PILGRIM NUCLEAR POWER STATION

APRIL 2003

Prepared by *Ryan Pender* Date 7/3/03

Reviewed by *Chad Gano* Date 7/3/03

Approved by *W. H. L...* Date 7/5/03

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## **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 13 to the end of Refueling Outage 14. The examinations performed for all ASME Section XI code categories are included in the third period of the Third Ten Year Inspection Interval of the PNPS ISI Program.

Pilgrim has inspected Class 1 category B-J and B-F welds since 2001 (RFO13) using a partial-scope Risk-Informed ISI Program in accordance with NRC Safety Evaluation Report (TAC No. MB0841) as detailed in NRC letter to Entergy 1.1.01.046. Pilgrim also employs 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 and the General Visual Walkdown of Primary Containment in accordance with PNPS procedure 2.1.8.7.
- Augmented manual ultrasonic (UT) examinations for intergranular stress corrosion cracking (IGSCC) per Generic Letter 88-01 as modified by 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 examination of one Salt Service Water piping spool 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 1.2.03.45 which provided the scope of the on-line and RFO#14 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. Scientech (NES) Corp. was the vendor for a portion of the online scope and all non-RPV ISI examinations performed during the refueling outage. Framatome Corp. performed all nozzle and Reactor Pressure Vessel weld examinations during RFO14. General Electric Corp. performed all invessel examinations during the outage. Entergy Quality Control personnel performed the balance of on-line examinations prior to RFO#14.

#### **Regarding Entergy letter 1.2.03.45, "Pilgrim Station 2003 On-Line and RFO14 Inservice Inspection (ISI) Plan":**

All planned examinations described in the ISI plan letter were completed with the exception of certain IVVI examinations and four Recirculation system nozzle-to-safe end dissimilar metal welds (described below).

The examination of four N2 nozzle-to-safe end dissimilar metal welds (N2D, E, F, J nozzles) in accordance with BWRVIP-75 and Supplement 10 Appendix VIII/PDI requirements was deferred to RFO15 due to automated scanner mechanical problems experienced by the ISI inspection vendor.

In addition to the 6 RPV shell vertical welds planned for RFO14 examination, two other vertical shell welds were also examined using the IHI AIRIS remote scanning tool. The remaining 4 vertical shell welds will be examined during RFO15.

The entire RPV shell-to-flange weld was examined during RFO14 from the vessel interior side from two directions using the IHI AIRIS tool with Appendix VIII/PDI techniques.

A total of 65 ultrasonic examinations for flow-assisted corrosion effects were performed in accordance with Generic Letter 89-08. Seven examinations were postponed due to schedule.

Inservice visual examinations of replaced CRD bolting were not performed due to a recent change in 10CFR50 that eliminates this inspection requirement for bolting that is not re-used.

Ultrasonic wall thickness examination was performed (on-line) on one rubber-lined carbon steel Salt Service Water (SSW) pipe spool in accordance with Specification M-591 and Generic Letter 89-13. The planned replacement of 7 SSW pipe spools was completed as part of the SSW Pipe Replacement Project during RFO14.

A total of 4 Nonconformance Reports and 2 Condition Reports were issued which are tabulated in Table 7.

Various 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 is provided here.

All examinations stated in Entergy letter 1.2.03.45 were completed with the following two clarifications. No indications were found.

- Three jet pump beams were visually examined for mid-span cracking.
- One Core Spray weld was examined to IE Bulletin 80-13 sensitivity.

#### **Containment Examinations (IWE)**

Augmented and program examinations were performed 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 RFO14**

**By Entergy and Sciencetech Corporation**

<b>Component</b>	<b>Description</b>	<b>Category</b>	<b>System</b>	<b>Isometric</b>	<b>Exam</b>
10-E207B-N3-2	SHELL REINF PLATE	C-B	RHR	ISI-E207B	MT
10-E207B-N3-3	NOZZLE REINF PLATE	C-B	RHR	ISI-E207B	MT
10-E207B-N4-2	SHELL REINF PLATE	C-B	RHR	ISI-E207B	MT
10-E207B-N4-3	NOZZLE REINF PLATE	C-B	RHR	ISI-E207B	MT
GB-10-12HL1(4)	SUPPORT LUGS	C-C	RHR	ISI-I-10-4BSH1	MT
GB-10-19HL1(4)	SUPPORT LUGS	C-C	RHR	ISI-I-10-4BSH1	MT
HB-10-28HL1(2)	2 HANGER LUGS	C-C	RHR	ISI-I-10-1B	MT
3-WSD-5	ELBOW TO PIPE	C-F-2	CRD	ISI-I-3-1	MT UT
GB-14-F39	PIPE TO VALVE	C-F-2	CS	ISI-I-14-2B	MT UT
GB-14-F40	PUMP TO PIPE	C-F-2	CS	ISI-I-14-2B	MT UT
HD-14-2-2D	REDUCER TO FLANGE	C-F-2	CS	ISI-I-14-2B	MT UT
HD-14-F19	VALVE TO ELBOW	C-F-2	CS	ISI-I-14-2B	MT UT
HL-23-F22	NOZZLE TO PIPE	C-F-2	HPCI	ISI-I-23-4	MT UT
HB-13-2-1A	FLANGE TO ELBOW	C-F-2	RCIC	ISI-I-13-3	MT UT
HD-13-F35	PIPE TO VALVE	C-F-2	RCIC	ISI-I-13-2	MT UT
HE-26-F42A	ELBOW TO VALVE	C-F-2	RCIC	ISI-I-13-4	MT UT
GB-10-12-2D	WELDOLET TO PIPE	C-F-2	RHR	ISI-I-10-5BSH1	MT UT
GB-10-3002-2-2	ELBOW TO PIPE	C-F-2	RHR	ISI-I-10-4ASH2	MT UT
GB-10-9-2E	WELDOLET	C-F-2	RHR	ISI-I-10-4BSH1	MT UT
GB-10-F116	VALVE TO TEE	C-F-2	RHR	ISI-I-10-3A	MT UT
GB-10-F153R	PIPE TO VALVE	C-F-2	RHR	ISI-I-10-5BSH1	MT UT
GB-10-F17	PIPE TO ELBOW	C-F-2	RHR	ISI-I-10-4BSH1	MT UT



Table 1

## ISI EXAMINATIONS PERFORMED ON-LINE PRIOR TO RFO14

By Entergy and Sciencetech Corporation

Component	Description	Category	System	Isometric	Exam
GB-10-F59A	PIPE TO VALVE	C-F-2	RHR	ISI-I-10-5BSH2	MT UT
DB-23-VBW10-1	VALVE BODY WELD	C-G	HPCI	ISI-I-23-5	MT
DB-23-VBW10-2	VALVE BODY WELD	C-G	HPCI	ISI-I-23-5	MT
30-E122A-HL	HX INTEGRAL ATTMT	D-B	RBCCW	ISI-E122A	VT-3
30-E209A-HL	HX INTEGRAL ATTMT	D-B	RBCCW	ISI-E209A	VT-3
HE-30-104PS	STANCHION	D-B	RBCCW	ISI-I-30-1SH2	VT-3
HE-30-12HL	HANGER LUG	D-B	RBCCW	ISI-I-30-1SH2	VT-3
HE-30-238PS	STANCHION	D-B	RBCCW	ISI-I-30-2SH1	VT-3
HE-30-24HL	HANGER LUG	D-B	RBCCW	ISI-I-30-2SH1	VT-3
HE-30-26HL	HANGER LUG	D-B	RBCCW	ISI-I-30-2SH1	VT-3
HE-30-27PS	STANCHION	D-B	RBCCW	ISI-I-30-2SH2	VT-3
HE-30-346HL	HANGER LUG	D-B	RBCCW	ISI-I-30-2SH1	VT-3
29-P208A-HL	PUMP INTEGRAL ATTMT	D-B	SSW	ISI-I-29-1SH2	VT-3
IWE-TORUS-LOWER-B1	AUGMENTED TORUS UT elev.-11ft 6in BAY 1	E-C	CONT	ISI-IWE-AUG-1	UT
IWE-TORUS-LOWER-B13	AUGMENTED TORUS UT elev.-11ft 6in BAY 13	E-C	CONT	ISI-IWE-AUG-1	UT
IWE-TORUS-LOWER-B5	AUGMENTED TORUS UT elev.-11ft 6in BAY 5	E-C	CONT	ISI-IWE-AUG-1	UT
IWE-TORUS-LOWER-B9	AUGMENTED TORUS UT elev.-11ft 6in BAY 9	E-C	CONT	ISI-IWE-AUG-1	UT
IWE-TORUS-MWL-B1	AUGMENTED TORUS UT AT MWL BAY 1	E-C	CONT	ISI-IWE-AUG-1	UT
IWE-TORUS-MWL-B13	AUGMENTED TORUS UT AT MWL BAY 13	E-C	CONT	ISI-IWE-AUG-1	UT

**Table 1**

**ISI EXAMINATIONS PERFORMED ON-LINE PRIOR TO RFO14**

**By Entergy and Sciencetech Corporation**

<b>Component</b>	<b>Description</b>	<b>Category</b>	<b>System</b>	<b>Isometric</b>	<b>Exam</b>
IWE-TORUS-MWL-B5	AUGMENTED TORUS UT AT MWL BAY 5	E-C	CONT	ISI-IWE-AUG-1	UT
IWE-TORUS-MWL-B9	AUGMENTED TORUS UT AT MWL BAY 9	E-C	CONT	ISI-IWE-AUG-1	UT
H-50-1-TORUSBAY5	TORUS SUPPORTS	F-A	CONT	C1A175SH1 & C1A-62-4	VT-3
H-3-1-22	RESTRAINT	F-A	CRD	ISI-I-3-1	VT-3
H-3-1-30	RESTRAINT	F-A	CRD	ISI-I-3-1	VT-3
H-3-1-38	RIGID SUPPORT	F-A	CRD	ISI-I-3-1	VT-3
H-14-1-12	RIGID HANGER	F-A	CS	ISI-I-14-2B	VT-3
H-14-1-15	SPRING HANGER	F-A	CS	ISI-I-14-2B	VT-3
H-14-1-P215A	PUMP SUPPORT	F-A	CS	ISI-P215A	VT-3
H-23-1-X52	ANCHOR	F-A	HPCI	ISI-I-23-1	VT-3
H-26-1-318	SPRING HANGER	F-A	HPCI	ISI-I-23-4	VT-3
H-30-1-63SA	ANCHOR	F-A	RBCCW	ISI-I-30-2SH1	VT-3
H-13-1-P206	PUMP SUPPORT	F-A	RCIC	ISI-I-13-2	VT-3
H-26-1-194	RIGID SUPPORT	F-A	RCIC	ISI-I-13-5	VT-3
H-26-1-56	RIGID HANGER	F-A	RCIC	ISI-I-13-5	VT-3
H-10-1-106	RIGID HANGER	F-A	RHR	ISI-I-10-5BSH1	VT-3
H-10-1-107S	RIGID HANGER	F-A	RHR	ISI-I-10-4BSH1	VT-3
H-10-1-131	RIGID HANGER	F-A	RHR	ISI-I-10-4BSH1	VT-3
H-10-1-179	SPRING HANGER	F-A	RHR	ISI-I-10-4BSH1	VT-3
H-10-1-5	SPRING HANGER	F-A	RHR	ISI-I-10-1B	VT-3
H-10-1-54SH	RIGID HANGER	F-A	RHR	ISI-I-10-1B	VT-3

**Table 1****ISI EXAMINATIONS PERFORMED ON-LINE PRIOR TO RFO14****By Entergy and Sciencetech Corporation**

<b>Component</b>	<b>Description</b>	<b>Category</b>	<b>System</b>	<b>Isometric</b>	<b>Exam</b>
H-10-1-65	SPRING HANGER	F-A	RHR	ISI-I-10-4BSH2	VT-3
H-10-1-94S	RESTRAINT	F-A	RHR	ISI-I-10-3B	VT-3
H-10-1-96S	GUIDE	F-A	RHR	ISI-I-10-3B	VT-3
H-10-1-P203A	PUMP SUPPORT	F-A	RHR	ISI-P203A	VT-3
H-10-1-X51A	ANCHOR	F-A	RHR	ISI-I-10-1	VT-3
H-12-1-100	RIGID HANGER	F-A	RWCU	ISI-I-12-2	VT-3
H-12-1-5	GUIDE	F-A	RWCU	ISI-I-12-2	VT-3
H-29-1-36	RIGID HANGER	F-A	SSW	ISI-I-29-1SH2	VT-3
H-29-1-53	RESTRAINT	F-A	SSW	ISI-I-29-1SH1	VT-3
H-29-1-P208A	PUMP SUPPORT	F-A	SSW	ISI-I-29-1SH2	VT-3

Table 2

**AUGMENTED PRESSURE BOUNDARY ONLY (PBO) NON-Q VISUAL EXAMINATIONS  
PERFORMED ONLINE PER SPECIFICATION M-593**

Component	Description	System	Isometric	Exam
H-30-1-102SR	RIGID SUPPORT	RBCCW	ISI-I-30-4SH1	VT-3
H-30-1-103SR	RIGID SUPPORT	RBCCW	ISI-I-30-4SH1	VT-3
H-30-1-107	RIGID SUPPORT	RBCCW	ISI-I-30-4SH1	VT-3
H-30-1-108SH	SPRING HANGER	RBCCW	ISI-I-30-4SH1	VT-3
H-30-1-114SR	RIGID SUPPORT	RBCCW	ISI-I-30-4SH1	VT-3
H-30-1-171	RIGID SUPPORT	RBCCW	ISI-I-30-4SH2	VT-3
H-30-1-174	RIGID SUPPORT	RBCCW	ISI-I-30-5	VT-3
H-30-1-297	RIGID SUPPORT	RBCCW	ISI-I-30-4SH1	VT-3
H-30-1-318	RIGID SUPPORT	RBCCW	ISI-I-30-4SH2	VT-3
H-30-1-95SR	RIGID SUPPORT	RBCCW	ISI-I-30-4SH2	VT-3
H-30-1-98SH	SPRING HANGER	RBCCW	ISI-I-30-4SH2	VT-3
H-30-1-99SA	ANCHOR	RBCCW	ISI-I-30-4SH2	VT-3
H-30-1-E206B	HEAT EXCHANGER SUPPORT	RBCCW	ISI-I-30-4SH2	VT-3
H-30-1-E211A	HEAT EXCHANGER SUPPORT	RBCCW	ISI-I-30-5	VT-3
H-30-1-E216A	HEAT EXCHANGER SUPPORT	RBCCW	ISI-I-30-4SH2	VT-3

**Table 3**

**ISI EXAMINATIONS PERFORMED DURING RFO14**  
**By Entergy, Framatome Corporation and Scintech Corporation**

<b>Component</b>	<b>Description</b>	<b>Category</b>	<b>System</b>	<b>Isometric</b>	<b>Exam</b>
RPV-L-1-338B	LOWER INTERMEDIATE SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-1-339A	UPPER SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-1-339B	UPPER SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-1-339C	UPPER SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-2-338B	LOWER SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-2-339A	UPPER INTERMEDIATE SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-2-339B	UPPER INTERMEDIATE SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-2-339C	UPPER INTERMEDIATE SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-SF-0-120	SHELL TO FLANGE	B-A	RPV	ISI-I-54-1	UT
RPV-SF-120-240	SHELL TO FLANGE	B-A	RPV	ISI-I-54-1	UT
RPV-SF-240-360	SHELL TO FLANGE	B-A	RPV	ISI-I-54-1	UT
RPV-N2D-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N2D-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N2E-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N2E-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N2F-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N2F-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N2J-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N2J-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N4A-NIR	NOZZLE INNER RADIUS& BORE	B-D	RPV	ISI-I-54-1	UT
RPV-N4A-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N4B-NIR	NOZZLE INNER RADIUS& BORE	B-D	RPV	ISI-I-54-1	UT
RPV-N4B-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N4C-NIR	NOZZLE INNER RADIUS& BORE	B-D	RPV	ISI-I-54-1	UT
RPV-N4C-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N4D-NIR	NOZZLE INNER RADIUS& BORE	B-D	RPV	ISI-I-54-1	UT
RPV-N4D-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT

**Table 3**

**ISI EXAMINATIONS PERFORMED DURING RFO14**  
**By Entergy, Framatome Corporation and Scintech Corporation**

<b>Component</b>	<b>Description</b>	<b>Category</b>	<b>System</b>	<b>Isometric</b>	<b>Exam</b>
RPV-N9B-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N9B-1	NOZZLE TO SAFE END	B-F	RPV	ISI-I-54-4	UT
14-VB-1400-6B	VALVE BOLTING	B-G-2	CS	ISI-I-14-1	VT-1
14-VB-1400-9B	VALVE BOLTING	B-G-2	CS	ISI-I-14-1	VT-1
23-VB-2301-5	VALVE BOLTING	B-G-2	HPCI	ISI-I-23-1	VT-1
23-VB-2301-7	VALVE BOLTING	B-G-2	HPCI	ISI-I-23-1	VT-1
23-VB-2301-8	VALVE BOLTING	B-G-2	HPCI	ISI-I-23-1	VT-1
13-VB-1301-17	VALVE BOLTING	B-G-2	RCIC	ISI-I-13-1	VT-1
2R-FB-BP-1A	FLANGE BOLTING	B-G-2	RECIRC	ISI-I-2R-B	VT-1
2R-FB-BPA-1	FLANGE BOLTING	B-G-2	RECIRC	ISI-I-2R-A	VT-1
2R-FB-N1A-7BC-1	FLANGE BOLTING	B-G-2	RECIRC	ISI-I-2R-B	VT-1
2-VB-202-5A	VALVE BOLTING	B-G-2	RECIRC	ISI-I-2R-A	VT-1
2-VB-63B	VALVE BOLTING	B-G-2	RECIRC	ISI-I-2R-B	VT-1
10-VB-1001-33B	VALVE BOLTING	B-G-2	RHR	ISI-I-10-1	VT-1
10-VB-1001-68B	VALVE BOLTING	B-G-2	RHR	ISI-I-10-1	VT-1
12-VB-1201-80	VALVE BOLTING	B-G-2	RWCU	ISI-I-12-2	VT-1
14-A-17	PIPE TO PENETRATION	B-J	CS	ISI-I-14-1	UT
14-A-18	PIPE TO PIPE	B-J	CS	ISI-I-14-1	UT
14R-A-16	PENETRATION TO ELBOW	B-J	CS	ISI-I-14-1	UT
14R-B-16	PENETRATION TO ELBOW	B-J	CS	ISI-I-14-1	UT
6-N4C-2	PIPE TO PIPE	B-J	FW	ISI-I-6-1	UT
6-N4D-2	PIPE TO PIPE	B-J	FW	ISI-I-6-1	UT
13-I-16	VALVE TO PIPE	B-J	RCIC	ISI-I-13-1	UT
2R-HA-1	HEADER TO BEND	B-J	RECIRC	ISI-I-2R-A	UT
2R-HA-4	HEADER TO BEND	B-J	RECIRC	ISI-I-2R-A	UT
10-O-24	PIPE TO PIPE	B-J	RHR	ISI-I-10-1A	UT
10-O-25	PIPE TO PIPE	B-J	RHR	ISI-I-10-1A	UT

**Table 3**  
**ISI EXAMINATIONS PERFORMED DURING RFO14**  
**By Entergy, Framatome Corporation and Sciencetech Corporation**

Component	Description	Category	System	Isometric	Exam
10R-IA-4	ELBOW TO PIPE	B-J	RHR	ISI-I-10-1	UT
10R-IA-6	PIPE TO VALVE	B-J	RHR	ISI-I-10-1	UT
10R-IA-7	VALVE TO PIPE	B-J	RHR	ISI-I-10-1	UT
12-I-26	ELBOW TO PIPE	B-J	RWCU	ISI-I-12-2	UT
12-I-27	PIPE TO ELBOW	B-J	RWCU	ISI-I-12-2	UT
12-O-28R	PIPE TO ELBOW	B-J	RWCU	ISI-I-12-1SH1	UT
6-N4B-5HL1(4)	SUPPORT LUG	B-K-1	FW	ISI-I-6-1	MT
CLASS 1 HYDRO	CLASS 1 HYDRO	B-P	VARIOUS	VARIOUS	VT-2
DC-14-F1	PIPE TO VALVE	C-F-1	CS	ISI-I-14-1	PT UT
DC-10-F10R	PIPE TO VALVE	C-F-1	RHR	ISI-I-10-4BSH1	UT
DC-10-F9	PIPE TO VALVE	C-F-1	RHR	ISI-I-10-4ASH2	PT UT
DE/DL-6-F68	REDUCER TO VALVE	C-F-2	FW	ISI-I-6-1A	MT UT
EE-1-F138	VALVE TO PIPE	C-F-2	MS	ISI-I-1-1SH2	MT UT
DB-14-VBW24A-1	VALVE BODY WELD	C-G	CS	ISI-I-14-2A	MT
DB-14-VBW24A-2	VALVE BODY WELD	C-G	CS	ISI-I-14-2A	MT
1-GE-X208A-HL	INTEGRAL ATTACHMENT	D-B	MS	ISI-I-1-1SH1	VT-3
IWE-GVWD-01	GENERAL VISUAL WALKDOWN	E-A	CONT	ISI-IWE-AUG-1	GV
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-LINERDRAINS	LINER DRAINS	E-C	CONT	ISI-IWE-AUG-2	VT-2
IWE-CB-GIBS135	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1
IWE-CB-GIBS180	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1
IWE-CB-X203D	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1
IWE-CB-X203E	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1
IWE-CB-X203F	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1
H-2-1-H10	SPRING HANGER	F-A	RECIRC	ISI-I-2R-A	VT-3

**Table 3**

**ISI EXAMINATIONS PERFORMED DURING RFO14**  
**By Entergy, Framatome Corporation and Scintech Corporation**

<b>Component</b>	<b>Description</b>	<b>Category</b>	<b>System</b>	<b>Isometric</b>	<b>Exam</b>
H-2-1-SS5	SNUBBER	F-A	RECIRC	ISI-I-2R-A	VT-3
H-10-1-175	SPRING HANGER	F-A	RHR	ISI-I-10-1	VT-3
H-6-1-59	RIGID HANGER	F-A-CL4	FW	ISI-I-6-1A	VT-3
H-6-1-67	RIGID HANGER	F-A-CL4	FW	ISI-I-6-1A	VT-3
H-1-1-204	RIGID SUPPORT	F-A-CL4	MS	ISI-I-1-1SH2	VT-3
H-1-1-205	RIGID SUPPORT	F-A-CL4	MS	ISI-I-1-1SH2	VT-3
H-1-1-45	RIGID HANGER	F-A-CL4	MS	ISI-I-1-1SH2	VT-3



Table 4

**FLOW ACCELERATED CORROSION EXAMINATIONS  
PERFORMED ON LINE AND DURING RFO14**

<b>FAC COMPONENT</b>	<b>FAC DESCRIPTION</b>	<b>SYSTEM</b>	<b>O.D.</b>
111 (online)	GE18-8-12-1E	CONDENSATE	14
154.3	GE18-21-5-1P	CONDENSATE	14
233	GF18-21-5-1E	CONDENSATE	14
240	(18") GE18-17-1-1R	CONDENSATE	18
2	GF16-4-5-1E	EXTR STEAM	12.75
29	HF1(B)16-1E	EXTR STEAM	24
194.3	HF16-FSK-3-3E	EXTR STEAM	1.9
196.91	HE25-12-1-1E	EXTR STEAM	3.5
196.94	HE25-12-1-2E	EXTR STEAM	3.5
225.3	(16") GF16-2-2-1D	EXTR STEAM	16
271	HF(A)-16-2N	EXTR STEAM	24
281.1	E-103B HEATER SHELL	EXTR STEAM	N/A
290.2	HF16-11-1-1E	EXTR STEAM	30
290.3	HF16-10-1-1E	EXTR STEAM	30
297	GF16-4-2-2E	EXTR STEAM	14
349	HF16-2-6-1N	EXTR STEAM	12.75
351	HF16-7-5-2E	EXTR STEAM	3.5
367	HF16-7-4-1EP	EXTR STEAM	3.5
368	HF16-7-4-2E	EXTR STEAM	3.5
369	HF16-7-4-3E	EXTR STEAM	3.5
373	E-105B Htr Shell	EXTR STEAM	n/a
377	HF16-9-5-1E	EXTR STEAM	3.5
206.1	DE6-13-1-1E	FW	12
238	(16") DE6-14-2-1T	FW	16
296	(12") DE6-13-1-1T	FW	12.75
307.1	DE6-12-2-1EP	FW	4.5
354	DE6-3-3-2E	FW	16
356	DE6-1-2-1E	FW	4.5
359	DE6-6-2-1E	FW	24
361	DL6-3-3-1E	FW	12.75

**Table 4**  
**FLOW ACCELERATED CORROSION EXAMINATIONS**  
**PERFORMED ON LINE AND DURING RFO14**

<b>FAC COMPONENT</b>	<b>FAC DESCRIPTION</b>	<b>SYSTEM</b>	<b>O.D.</b>
362	DE6-10-3-1E	FW	16
363	DE6-11-2-1T	FW	6.625
364	DE6-12-6-2E	FW	4.5
365	DE6-17-2-1E	FW	10.75
366	DE6-21-5-1E	FW	10.75
22	HE17-10-2-3E	HTR VENTS/DRAINS	10.75
25.2	HE17-28-8-1TP	HTR VENTS/DRAINS	16
56.1	(14") HE17-2-4-1D	HTR VENTS/DRAINS	14
286	HE17-2-4-1TP	HTR VENTS/DRAINS	10.75
315	GE17-FSK2-3N	HTR VENTS/DRAINS	6.625
318	HE17-5-1-1E	HTR VENTS/DRAINS	2.875
319	HE17-32-8-1E	HTR VENTS/DRAINS	2.875
324	HE17-FSK-30-1N	HTR VENTS/DRAINS	1.315
326	HE17-FSK-39-1ORP	HTR VENTS/DRAINS	2.375
357	HE17-25-2-1E	HTR VENTS/DRAINS	10.75
370	HE17-26-3-1E	HTR VENTS/DRAINS	6.625
371	HE17-32-6-1E	HTR VENTS/DRAINS	2.875
374	HE17-35-1-1N	HTR VENTS/DRAINS	12.75
375	HE17-18-2-1E	HTR VENTS/DRAINS	12.75
381	Scope expansion for Pt 371	HTR VENTS/DRAINS	2.875
98	EE-7-3-1P	MS	10.75
191.3	(4") EE-1-9-2-3T	MS	4.5
200	(4") HE-1-1-1-1T	MS	4.5
254	EE-1-1-4-2E	MS	2.375
258.1	(4") HE1-1-1-1R	MS	4.5
263	SRM5-1E	MS	4.5
300	EBC(A)-1-1-2-1E	MS	4.5
334	SP-EE-2-2-1VP	MS	1.05
340	2SPE4-1E	MS	8.625
353	PS-1-3-2TP	MS	20

**Table 4**

**FLOW ACCELERATED CORROSION EXAMINATIONS  
PERFORMED ON LINE AND DURING RFO14**

<b>FAC COMPONENT</b>	<b>FAC DESCRIPTION</b>	<b>SYSTEM</b>	<b>O.D.</b>
355	EE-1-7-3-1E	MS	3.5
342 (online)	D/S of RO1301-7	RCIC	2.375
343	Pip d/s of CV1301-32	RCIC	1.315
352	Pip 5D to Stm Trap	RCIC	1.315
128.2	d/s (2") DCA12-2P	RWCU	2.375

Table 5

RFO14 ISI ONLINE AND OUTAGE MAINTENANCE REQUESTS

ISI SCOPE

MR	System	Loop
1115996	SSW	A LOOP
1115989	CRD	N/A
1115997	RWCU	N/A
1115990	CONT	N/A
1115987	CS	A LOOP
1115988	CS	B LOOP
1115986	FW	A LOOP
1115995	HPCI	N/A
1115994	MS	N/A
1115993	RBCCW	A LOOP
1115992	RBCCW	B LOOP
1115991	RCIC	N/A
1116001	RECIRC	N/A
1116000	RHR	SDC/ A LOOP
1115999	RHR	B LOOP
1115998	RPV NOZZLES	-----
S9905487	IWE GENERAL VISUAL WALKDOWN	-----
1116003	RPV VERTICAL SHELL WELDS	-----
1123031	IVVI	-----
1123029	REMOVE INSUL. FROM N14 NOZZLE	-----
1116004	CLASS 1 HYDRO	-----

FAC SCOPE

MR	System	Loop
2102435	COND	-----
2102434	EXTR STEAM	-----

**Table 5**

**RFO14 ISI ONLINE AND OUTAGE MAINTENANCE REQUESTS**

**ISI SCOPE**

<b>MR</b>	<b>System</b>	<b>Loop</b>
2102437	FW	-----
2102433	MS/MS Aux	-----
2102439	HEATER VENTS & DRAINS	-----
2102438	RWCU	-----
3101279	E-103B HEATER	-----

**SSW SPEC. M-591 SCOPE**

2100993	SSW	A LOOP
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Table 6

## NON-SCHEDULED VISUAL EXAMINATIONS PERFORMED 2001-2003

Datasheet	Component	System	Exam	Date	MR
VT-13-03004	MO1301-53	RCIC	VT-2	5/13/2003	01122819
VT-54-03001	CLASS 1 HYDRO- RB 51'	RPV	VT-2	5/10/2003	01116004
VT-54-03002	CLASS 1 HYDRO- EAST CRD	RPV	VT-2	5/10/2003	01116004
VT-54-03003	CLASS 1 HYDRO- WEST CRD	RPV	VT-2	5/10/2003	01116004
VT-54-03004	CLASS 1 HYDRO-D/W 41',51',74'	RPV	VT-2	5/10/2003	01116004
VT-54-03005	CLASS 1 HYDRO- D/W 93'	RPV	VT-2	5/10/2003	01116004
VT-54-03006	CLASS 1 HYDRO- UNDERVESSEL	RPV	VT-2	5/10/2003	01116004
VT-54-03007	CLASS 1 HYDRO- STEAM TUNNEL	RPV	VT-2	5/10/2003	01116004
VT-54-03008	CLASS 1 HYDRO- D/W 9', 23'	RPV	VT-2	5/10/2003	01116004
VT-54-03009	CLASS 1 HYDRO- B VLV ROOM	RPV	VT-2	5/10/2003	01116004
VT-54-03010	CLASS 1 HYDRO- CRD REPAIR AREA	RPV	VT-2	5/10/2003	01116004
VT-54-03011	CLASS 1 HYDRO- A VLV ROOM	RPV	VT-2	5/10/2003	01116004
VT-54-03012	CLASS 1 HYDRO- D/W 83'	RPV	VT-2	5/10/2003	01116004
VT-54-03013	CLASS 1 HYDRO- TIP ROOM	RPV	VT-2	5/10/2003	01116004
VT-54-03014	CLASS 1 HYDRO- RWCU HX ROOM	RPV	VT-2	5/10/2003	01116004
VT-54-03015	CLASS 1 HYDRO- RB 74'	RPV	VT-2	5/10/2003	01116004
VT-54-03016	CLASS 1 HYDRO- RB 91'	RPV	VT-2	5/10/2003	01116004
VT-54-03017	CLASS 1 HYDRO- TORUS ROOM	RPV	VT-2	5/10/2003	01116004
VT-1-03010	H-1-1-SB1	MS	VT-3	5/7/2003	02107797
VT-1-03011	H-1-1-SB2	MS	VT-3	5/7/2003	02107797
VT-29-03009	29-HO-3884	SSW	VT-2	5/5/2003	02100592
VT-29-03010	29-HO-4B	SSW	VT-2	5/5/2003	01125334
VT-29-03011	JF29-4-9, 9-6, 9-7, MO3805	SSW	VT-2	5/5/2003	02104925, 02104125
VT-50-03007	ANNULUS DRAINS (4)	CONT	VT-2	5/3/2003	01115990
VT-1-03008	H-1-1-SD2	MS	VT-3 (PARTIAL)	5/1/2003	02107797
VT-1-03009	H-1-1-SC2	MS	VT-3 (PARTIAL)	5/1/2003	02107797
VT-29-03005	JF29-3-2 & 3-3	SSW	VT-2	4/30/2003	10000862
VT-29-03006	JF29-5-4 & 6-1	SSW	VT-2	4/30/2003	02104926
VT-29-03007	29-HO-3819	SSW	VT-2	4/30/2003	03101776
VT-29-03008	29-HO-3882	SSW	VT-2	4/30/2003	02100591

Table 6

## NON-SCHEDULED VISUAL EXAMINATIONS PERFORMED 2001-2003

Datasheet	Component	System	Exam	Date	MR
VT-30-03027	30-HO-457B	RBCCW	VT-2	4/30/2003	01119858
VT-1-03006	H-1-1-SA2	MS	VT-3 (PARTIAL)	4/29/2003	02107797
VT-1-03007	H-1-1-SC1	MS	VT-3 (PARTIAL)	4/29/2003	02107797
VT-30-03026	30-HO-37	RBCCW	VT-2	4/28/2003	01102755
VT-50-03003	IWE-LINERDRAINS	CONT	VT-2	4/25/2003	01115990
VT-50-03004	IWE-CB-X203D	CONT	VT-1	4/24/2003	01115990
VT-50-03005	IWE-CB-X203F	CONT	VT-1	4/24/2003	01115990
VT-50-03006	IWE-CB-X203E	CONT	VT-1	4/24/2003	01115990
VT-50-03002	ANNULUS DRAINS (4)	CONT	VT-2	4/21/2003	01115990
03-V-097	NUTS/STUDS MRIR No. 01-0257 (32 NUTS & 8 STUDS)	RECIRC	VT-1	4/15/2003	N/A
VT-1-03005	SRV BASELINES	MS	VT-3	4/15/2003	03104547
03-V-290	HB-10-28HL1(2)	RHR	VT-1	4/6/2003	1116000
03-V-082	SCREW,CRD MOUNTING, CAP,GE137C9293P001	CRD	VT-1	4/3/2003	2121619
VT-30-02002	P-202C MECHANICAL SEAL	RBCCW	VT-2	7/25/2002	01116967
VT-10-02001	SLT RHR-5 --- CONT. SPRAY BETW. 23B & 26B VLVS.	RHR	VT-2	4/4/2002	02100488
VT-30-02001	11 IGSCC POINTS IN TBCCW	TBCCW	VT-2	3/27/2002	S9904731
VT-10-02002	SLT RHR-10 --- CONT. SPRAY BETW. 23A & 26A VLVS.	RHR	VT-2	2/8/2002	S002057
VT-11-01005	SLT SBLC-1	SBLC	VT-2	10/25/2001	N/A
VT-31-01001	SLT AIR-1	INST AIR	VT-2	10/25/2001	N/A
VT-13-01003	SLT RCIC-2	RCIC	VT-2	10/22/2001	N/A
VT-65-01003	SLT PASS-X228J	PASS	VT-2	8/2/2001	S0007592
VT-65-01002	SLT PASS-X228K	PASS	VT-2	7/31/2001	S0007593

Table 7

## RFO14 CORRECTIVE ACTION DOCUMENT LISTING

CONDITION REPORTS/NCRS	COMPONENT	DESCRIPTION	SYSTEM	REMARKS	DISPOSITION
NCR 03-022	290.2	HF16-11-1-1E	EXTRACTION STEAM	WALL THICKNESS < T <sub>min</sub>	ACCEPT-AS-IS
NCR 03-026	290.3	HF16-10-1-1E	EXTRACTION STEAM	WALL THICKNESS < T <sub>min</sub>	ACCEPT-AS-IS
CR 03-01529	290.5	HF16-11-2-1E	EXTRACTION STEAM	MAIN CONDENSER INTERNAL PIPING PATCH FAILED, EXISTING HOLE FOUND ENLARGED.	REPLACED
NCR 03-33	371	HE17-32-6-1E	HEATER VENTS/DRAINS	WALL THICKNESS < T <sub>min</sub>	REPLACED
NCR 03-33	319	HE17-32-8-1E	HEATER VENTS/DRAINS	WALL THICKNESS < T <sub>min</sub>	REPLACED
NCR 03-010	H-10-1-179	SPRING HANGER	RHR	OPERABLE WITH LOOSE BOLTING	REWORK
CR-2003-01095	IWE-TORUS- LOWER-B1	IWE TORUS SHELL UT WALL THICKNESS	CONTAINMENT	IR 03-0145	ACCEPT-AS-IS
CR-2003-01095	IWE-TORUS- LOWER-B13	IWE TORUS SHELL UT WALL THICKNESS	CONTAINMENT	IR 03-0145	ACCEPT-AS-IS
CR-2003-01095	IWE-TORUS- LOWER-B5	IWE TORUS SHELL UT WALL THICKNESS	CONTAINMENT	IR 03-0145	ACCEPT-AS-IS
CR-2003-01095	IWE-TORUS- LOWER-B9	IWE TORUS SHELL UT WALL THICKNESS	CONTAINMENT	IR 03-0145	ACCEPT-AS-IS
CR-2003-01095	IWE-TORUS- MWL-B1	IWE TORUS SHELL UT WALL THICKNESS	CONTAINMENT	IR 03-0145	ACCEPT-AS-IS
CR-2003-01095	IWE-TORUS- MWL-B13	IWE TORUS SHELL UT WALL THICKNESS	CONTAINMENT	IR 03-0145	ACCEPT-AS-IS
CR-2003-01095	IWE-TORUS- MWL-B5	IWE TORUS SHELL UT WALL THICKNESS	CONTAINMENT	IR 03-0145	ACCEPT-AS-IS
CR-2003-01095	IWE-TORUS- MWL-B9	IWE TORUS SHELL UT WALL THICKNESS	CONTAINMENT	IR 03-0145	ACCEPT-AS-IS
CR-2003-02021	RECIRC PUMP P-201A	LEAKAGE DURING CLASS I PRESSURE TEST	RECIRC	---	ACCEPT-AS-IS



Table 7

## RFO14 CORRECTIVE ACTION DOCUMENT LISTING

CONDITION REPORTS/NCRs	COMPONENT	DESCRIPTION	SYSTEM	REMARKS	DISPOSITION
CR-2003-02023	RPV HEAD VENT	LEAKAGE DURING CLASS I PRESSURE TEST	RPV	MR 03109005	REWORK
CR-2003-02024	0601-62A VALVE	LEAKAGE DURING CLASS I PRESSURE TEST	FEEDWATER	MR 03109011	REWORK
CR-2003-02025	CRD FLANGES	LEAKAGE DURING CLASS I PRESSURE TEST	RPV	---	ACCEPT-AS-IS
CR-2003-01608	CONTAINMENT	IWE GENERAL VISUAL WALKDOWN	CONTAINMENT	---	ACCEPT-AS-IS

## **2.0 NIS-1 and NIS-2 Code Report Forms**

### **2.1 RFO14 NIS-1 Form**

# FORM NIS-1 OWNER'S 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, MA 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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
<u>Reactor Vessel Piping</u>	<u>Combustion Eng. Bechtel</u>	<u>66107</u>	<u>66207</u>	<u>20763</u>
_____	_____	_____	_____	_____
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- Note: Supplemental sheets in 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 data report is included on each sheet.
  - (3) Each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1

8. Examination Dates: 5-20-01 to 5-13-03
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: 7/8/03 Signed: Entergy By: Richard J. Hummel for W.H.G.  
Owner QA Manager

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

**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 ABSG Consulting Inc of Houston, TX have inspected the components described in this Owner's Data Report during the period of 5-20-01 to 5-13-03, and 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 Owner's 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: July 8/2003

[Signature]  
Inspector's Signature

Commissions MA-1420  
National Board, State, Province, and No.

## **2.2 RFO14 NIS-2 Forms**

**Entergy**

**Pilgrim Nuclear Power Station**

**Form NIS-2 Owner's Report**

for

**Repairs or Replacements of S/C Items/Components**

**RFO 14 – 2003**

Prepared by: Steven E Cole  
Preparer

Reviewed by: Richard D Pardee  
Senior ISI Engineer

Approved by: W. H. Sise  
QA Manager

Approved by: V. J. [Signature]  
ANII

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

1. Owner Entergy Louisiana, Inc. Date VARIOUS  
Name  
639 Loyola Ave. New Orleans, LA 70113  
Address
2. Plant Entergy Nuclear Generation Company  
Pilgrim Nuclear Power Station  
Name  
600 Rocky Hill Rd. Plymouth, MA 02360  
Address
3. Work Performed by Pilgrim Nuclear Power Station  
Name  
600 Rocky Hill Rd. Plymouth, MA 02360  
Address
4. Identification of System See Attached NIS-2 Summary Form
5. (a) Applicable Construction Code ANSI B31.1, 1967 Edition, No Addenda, No Code Case  
Year  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 89 Winter 80 Addenda  
Year  
 (c) Applicable Section XI Code Cases N-416-1

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)

7. Description of Work \_\_\_\_\_

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi 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, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

(7/89) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.



E00030

FORM NIS-2 (Back)

9. Remarks See Attached NIS-2 Summary Form  
Applicable Manufacturer's Data Reports to be attached

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

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

Signed W. H. Jones Date 7/3/03  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by ABSG Consulting of Houston, TX have inspected the components described in this Owner's Report during the period 5-20-01 to 5-13-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 MA 1420  
National Board, State, Province, and Endorsements

Date July 8/2003



**FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIR OR REPLACEMENTS**

**RFO 14 - 2003**

**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	RHR	PSA	42205	SS-1-10-46	02106963	2001	Replacement	No	Replace Snubber	VT-3
Snubber	RHR	PSA	42202	SS-1-10-21	02106962	2001	Replacement	No	Replace Snubber	VT-3
Snubber	RHR	PSA	42204	SS-1-10-16	02106961	2001	Replacement	No	Replace Snubber	VT-3
Pipe	SSW	Entergy	N/A	JF29-5-4	02104926	2003	Replacement	No	Replace Spool Piece	VT-2 at Normal PSI
Pipe	SSW	Entergy	N/A	JF29-6-1	02104926	2003	Replacement	No	Replace Spool Piece	VT-2 at Normal PSI
Pipe	SSW	Entergy	N/A	JF29-3-2	10000862	2001	Replacement	No	Replace Spool Piece	VT-2 at Normal PSI
Pipe	SSW	Entergy	N/A	JF29-3-3	10000862	2001	Replacement	No	Replace Spool Piece	VT-2 at Normal PSI
Pipe	SSW	Entergy	N/A	JF29-4-9	02104925	2003	Replacement	No	Replace Spool Piece	VT-2 at Normal PSI
Pipe	SSW	Entergy	N/A	JF29-9-6	02104925	2003	Replacement	No	Replace Spool Piece	VT-2 at Normal PSI
Pipe	SSW	Entergy	N/A	JF29-9-7	02104925	2003	Replacement	No	Replace Spool Piece	VT-2 at Normal PSI
Pump Bowl	SSW	Johnston Pump Co.	N/A	P-208D	19702057	1997	Replacement	No	Replace Pump Bowl Assembly	VT-2 at Normal PSI
Pump Columns Top/Int/Bot	SSW	Johnston Pump Co.	N/A	P-208D	19702057	1997	Replacement	No	Replace Pump Columns Top/Int/Bottom	VT-2 at Normal PSI

**FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIR OR REPLACEMENTS**

**RFO 14 - 2003**

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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
Heat Exchanger Channel	TBCCW	EFCO	S-24767	E-122B	P9700121	1997	Repair	Yes	Weld Repair of Channel Shell	VT-2 at Normal PSI
Heat Exchanger Channel	RBCC W	EFCO	S-24767	E-209A	P9900587	1967	Repair	Yes	Weld Repair of Channel Head Partition Plates	VT-2 at Normal PSI
LPRM	Reactor Vessel	General Electric	N/A	20-21, 36-05, 20-27, 36-13, 36-45, 44-37 and 04-29	01119510		Replacement	No	Replace LPRM Detector String	VT-2 During Class-1 Leak Check
Bolting	Recirc.		N/A	'A' Recirc. Pump Decon. Flange	02104004		Replacement	No	Replace Decon. Flange Bolting	VT-2 During Class-1 Leak Check
Pipe	Reactor Vessel	Entergy	N/A	1" EA Pipe and Fittings	03106903		Replacement	No	Replace a Sect. of Rx Flange Press. Indicator Piping	VT-2 During Class-1 Leak Check
Pump	RBCC W	Durame.	N/A	P-202C	10001849		Replaced	No	Replace Mech. Seal on P-202C	VT-2 at Normal PSI
Safety Relief Valve	MS	Target Rock	Body S/N-12	N/A	Contract No. 4500516308	1987	Repair	Yes	Welded New Seat to Body	Steam Cert. Test

**FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIR OR REPLACEMENTS**

**RFO 14 - 2003**

**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
Safety Relief Valve	MS	Target Rock	Body S/N-12	N/A	Contract No. 4500516308	1987	Repaired	Yes	Corrected Weld Repair Inlet Flange	Steam Cert. Test
Safety Relief Valve	MS	Target Rock	Body S/N-259	N/A	Contract No. 4500516308		Replacement	No	Installed New Seat In Body	Steam Cert. Test
Safety Relief Valve	MS	Target Rock	Body S/N-131	N/A	Contract No. 4500516308		Repaired	Yes	Corrected Honed Bore In Base	Steam Cert. Test
Safety Relief Valve	MS	Target Rock	Body S/N-13	N/A	Contract No. 4500516308		Replacement	Yes	Welded New Seat to Body	Steam Cert. Test
Safety Relief Valve	MS	Target Rock	Body S/N-252	N/A	Contract No. 4500516308		Replacement	No	Installed New Seat In Body	Steam Cert. Test
Valve	CS	Anchor/Darling	N/A	1400-4B	01110163	1970	Replacement	No	Replace Wedge	VT-2 During Class-1 Leak Check
Valve Bolting	CS	Anchor/Darling	N/A	1400-4B	01110163	1970	Replacement	No	Replace Bolting	VT-2 During Class-1 Leak Check

**FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIR OR REPLACEMENTS**

**RFO 14 - 2003**

**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
Control Rod Drive	CRD	General Electric	N/A	02-35, 02-39, 06-11, 06-23, 14-03, 14-19, 14-31, 18-03, 18-39, 42-11, 22-03, 22-23, 22-43, 22-51, 26-39, 30-19, 18-07, 10-31, 30-31, 34-03, 30-35, 14-15, 34-47, 38-43, 42-31, 02-31, 46-15, 46-23, 46-27, 46-35, 50-15	01110401	1971	Replacement	No	Replace CRD and Bolting	VT-2 During Class-1 Leak Check

**FORM NIS-2 OWNER'S SUMMARY REPORT FOR REPAIR OR REPLACEMENTS**

**RFO 14 - 2003**

**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	MS	Target Rock	Main Stage	RV-203-3A	02101020		Replacement	Yes	Replace Main Stage & Bolting	VT-2 During Class-1 Hydro
Valve	MS	Target Rock	Main Stage	RV-203-3B	02101020		Replacement	Yes	Replace Main Stage & Bolting	VT-2 During Class-1 Hydro
Valve	MS	Target Rock	Main Stage	RV-203-3C	02101020		Replacement	Yes	Replace Main Stage & Bolting	VT-2 During Class-1 Hydro
Valve	MS	Target Rock	Main Stage	RV-203-3D	02101020		Replacement	Yes	Replace Main Stage & Bolting	VT-2 During Class-1 Hydro
Valve	MS	Dresser	N/A	RV-203-4B	02108713		Replacement	Yes	Replace Relief Valve/Bolting	VT-2 During Class-1 Hydro
Valve	SSW	Henry Pratt	N/A	MO-3805	02104125		Replacement	No	Replace Valve	VT-2 at Normal PSI
Valve	RCIC	Anchor Darling	N/A	1301-64	03108035		Repair	Yes	Disassemble & Repair In-Kind	VT-2 at Normal PSI
Valve	SSW	Henry Pratt	N/A	29-HO-3819	03101776		Replacement	No	Replace Valve	VT-2 at Normal PSI
Valve	SSW	Powell	N/A	29-HO-3882	02100591		Replacement	No	Replace Valve	VT-2 at Normal PSI
Valve	SSW	Powell	N/A	29-HO-3884	02100592		Replacement	No	Replace Valve	VT-2 at Normal PSI
Snubber	MS	B/P	N/A	H1-1-SB1	02107797	2003	Replacement	No	Replace Snubber	VT-3
Snubber	MS	B/P	N/A	H1-1-SB2	02107797	2003	Replacement	No	Replace Snubber	VT-3
Valve	CS	Anchor	N/A	MO-1400-4A	0112324	1970	Replaced	No	Replaced Worn Disc	VT-2 During Class-1 Hydro