



Entergy Nuclear Operations, Inc.  
Pilgrim Station  
600 Rocky Hill Road  
Plymouth, MA 02360

William J. Riggs  
Director, Nuclear Assessment

April 14, 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 Station 2003 On-Line and Refueling Outage (RFO) - 14 Inservice  
Inspection (ISI) Plan

LETTER NUMBER: 2.03.045

Dear Sir or Madam:

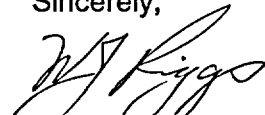
This letter provides the Pilgrim Nuclear Power Station (PNPS) Inservice Inspection (ISI) Plan for 2003, on-line and Refueling Outage 14 (RFO-14) examinations. On-line ISI examinations began in March 2003. RFO-14 is currently scheduled to start on April 19, 2003. The scope of examinations includes the following:

1. Attachment A provides the ASME code required inspections that have been scheduled for examination on-line prior to RFO-14 during the third inservice inspection interval in accordance with the 1989 Edition of ASME XI and the Pilgrim Inservice Inspection Program.
2. Attachment B provides the ASME code required inspections that have been scheduled for examination in RFO-14 during the third inservice inspection interval in accordance with the 1989 Edition of ASME XI for piping and the 1992 Edition with 1992 Addenda for IWE containment examinations. Examinations of Category C, D, and E austenitic stainless steel piping welds in RFO-14 will be scheduled in accordance with the NRC Safety Evaluation issued on September 15, 2000 for BWRVIP-75, "*Technical Basis for Revisions to Generic Letter 88-01 Inspection Schedules*," in lieu of Generic Letter 88-01 inspection schedule requirements. Pilgrim Station meets the requirements of the BWRVIP-75 Safety Evaluation including the open items identified by the NRC in the Safety Evaluation. Additionally, Pilgrim will comply with ASME XI Appendix VIII to the fullest extent possible allowed by current technology.
3. Attachment C provides examination planned for reactor vessel internals. Examinations include those planned to follow the BWRVIP Guidelines and those recommended by industry and internal initiatives.

4. Pilgrim will be inspecting piping for the effects of Flow Accelerated Corrosion (FAC) both on-line (2 points) and during RFO-14 (70 points).
5. Ultrasonic examinations of three Salt Service Water Piping Spools for wall thickness determination in accordance with Specification M-591 will be conducted online starting in March 2003.
6. Pilgrim will be inspecting 15 non-safety-related pipe supports and performing one leakage examination in accordance with Entergy Specification M-593, Augmented Inspection of Pressure Boundary Only (PBO) Piping and Components.

If you have any questions regarding the information contained in this letter, please contact Bryan Ford at 508-830-8403.

Sincerely,



William J. Riggs

- Attachment A: ASME XI Inservice Inspection Plan for 2003 Online Examinations  
Prior to RFO-14 (3 pages)
- Attachment B: ASME XI Inservice Inspection Plan for RFO-14 Examinations (4 pages)
- Attachment C: Pilgrim Station RFO-14 In-Vessel Visual Inspection Scope (IVVI) (1 page)

cc: Mr. Travis Tate, Project Manager  
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Senior Resident Inspector  
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## ATTACHMENT A

### ASME XI INSERVICE INSPECTION PLAN FOR 2003 ONLINE EXAMINATIONS

<u>Component</u>	<u>Description</u>	<u>Category</u>	<u>System</u>	<u>Isometric</u>	<u>Exam</u>
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-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
GB-10-F59A	PIPE TO VALVE	C-F-2	RHR	ISI-I-10-5BSH2	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
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
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
HE-26-F42A	ELBOW TO VALVE	C-F-2	RCIC	ISI-I-13-4	MT UT
HL-23-F22	NOZZLE TO PIPE	C-F-2	HPCI	ISI-I-23-4	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
29-P208A-HL	PUMP INTEGRAL ATTMT	D-B	SSW	ISI-I-29-1SH2	VT-3
30-E122A-HL	HX INTEGRAL ATTMT	D-B	RBCCW	ISI-E122A	VT-3

## ATTACHMENT A

<u>Component</u>	<u>Description</u>	<u>Category</u>	<u>System</u>	<u>Isometric</u>	<u>Exam</u>
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-30-2SH1	VT-3
HE-30-346HL	HANGER LUG	D-B	RBCCW	ISI-I-30-2SH1	VT-3
IWE-LINERDRAINS	LINER DRAINS	E-C	CONT	ISI-IWE-AUG-2	VT-2
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
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-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
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

## ATTACHMENT A

<u>Component</u>	<u>Description</u>	<u>Category</u>	<u>System</u>	<u>Isometric</u>	<u>Exam</u>
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-13-1-P206	PUMP SUPPORT	F-A	RCIC	ISI-I-13-2	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-26-1-194	RIGID SUPPORT	F-A	RCIC	ISI-I-13-5	VT-3
H-26-1-318	SPRING HANGER	F-A	HPCI	ISI-I-23-4	VT-3
H-26-1-56	RIGID HANGER	F-A	RCIC	ISI-I-13-5	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
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-30-1-63SA	ANCHOR	F-A	RBCCW	ISI-I-30-2SH1	VT-3
H-50-1-TORUSBAY5	TORUS SUPPORTS	F-A	CONT	C1A175SH1 & C1A-62-4	VT-3

## ATTACHMENT B

### ASME XI INSERVICE INSPECTION PLAN FOR 2003 OUTAGE EXAMINATIONS

<u>Component</u>	<u>Description</u>	<u>Category</u>	<u>System</u>	<u>Isometric</u>	<u>Exam</u>
RPV-L-1-338A	LOWER INTERMEDIATE SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-1-338B	LOWER INTERMEDIATE SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-1-338C	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-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
RPV-N9B-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N9B-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
2R-N2D-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-A	UT

## ATTACHMENT B

<u>Component</u>	<u>Description</u>	<u>Category</u>	<u>System</u>	<u>Isometric</u>	<u>Exam</u>
2R-N2E-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-A	UT
2R-N2F-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-B	UT
2R-N2J-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-B	UT
RPV-N9B-1	NOZZLE TO SAFE END	B-F	RPV	ISI-I-54-4	UT
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
13-VB-1301-17	VALVE BOLTING	B-G-2	RCIC	ISI-I-13-1	VT-1
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
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
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
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
RPV-FB-CRD	CRD BOLTING	B-G-2	RPV	N/A	VT-1
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
10R-IA-3	PIPE TO ELBOW	B-J	RHR	ISI-I-10-1	UT
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
13-I-16	VALVE TO PIPE	B-J	RCIC	ISI-I-13-1	UT
14-A-17	PIPE TO PENETRATION	B-J	CS	ISI-I-14-1	UT

## ATTACHMENT B

<u>Component</u>	<u>Description</u>	<u>Category</u>	<u>System</u>	<u>Isometric</u>	<u>Exam</u>
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
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
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
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-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
DC-14-F1	PIPE TO VALVE	C-F-1	CS	ISI-I-14-1	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-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
IWE-LINERDRAINS	LINER DRAINS	E-C	CONT	ISI-IWE-AUG-2	VT-2
H-10-1-175	SPRING HANGER	F-A	RHR	ISI-I-10-1	VT-3



## ATTACHMENT B

<u>Component</u>	<u>Description</u>	<u>Category</u>	<u>System</u>	<u>Isometric</u>	<u>Exam</u>
H-2-1-H10	SPRING HANGER	F-A	RECIRC	ISI-I-2R-A	VT-3
H-2-1-H16	SPRING HANGER	F-A	RECIRC	ISI-I-2R-A	VT-3
H-2-1-SS5	SNUBBER	F-A	RECIRC	ISI-I-2R-A	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
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

## ATTACHMENT C

### Pilgrim Station RFO-14 in Vessel Inspection Scope (IVVI)

1. Visual Feedwater sparger examination to NUREG 0619, attachment welds examined to ASME XI and BWRVIP-48.
2. Visual Examination of Core Spray piping welds to BWRVIP-18.
3. Visual Examination of access hole covers to SIL 462 Rev 1.
4. Visual Examination of jet pump welds to BWRVIP-41.  
5 RS-3 Welds.  
50% of DF-2, DF-3 or AD 3ab, AD-1, and AD-2 welds.
5. Visual Examination of eight (8) guide tubes in accordance with BWRVIP-47
6. Visual Examination of five (5) gusset welds to BWRVIP-38
7. Visual Examination of the steam dryer to SIL 644. Also, examination of the dryer tack welds.