



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

Stephen J. Bethay
Director, Nuclear Assessment

March 7, 2005

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 2005 On-Line and Refueling Outage (RFO) - 15 Inservice
Inspection (ISI) Plan

LETTER NUMBER: 2.05.018

Dear Sir or Madam:

This letter provides the Pilgrim Nuclear Power Station (PNPS) Inservice Inspection (ISI) Plan for 2005, on-line and Refueling Outage 15 (RFO15) examinations. On-line ISI examinations will begin in March 2005. RFO15 is currently scheduled to start on April 18, 2005. The scope of examinations is discussed below:

1. Attachment A provides the ASME code required inspections that have been scheduled to be performed on-line prior to RFO15 during the third inservice inspection interval in accordance with the 1989 Edition of ASME XI and the Pilgrim ISI Program.
2. Attachment B provides the ASME code required inspections that have been scheduled to be performed in RFO15 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 austenitic stainless steel piping welds in RFO15 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 Safety Evaluation. Additionally Pilgrim will comply with ASME XI Appendix VIII requirements and Performance Demonstration Initiative (PDI) procedures to the fullest extent possible as allowed by current technology.

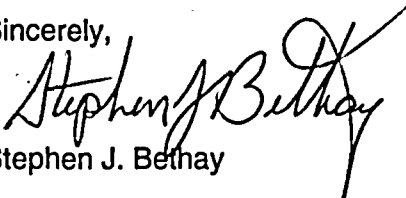
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3. Attachment C provides planned examinations of reactor vessel internals. These include those examinations planned to follow the BWRVIP Guidelines and recommended by industry and Pilgrim-specific initiatives.
4. Pilgrim plans to inspect piping for the effects of Flow Accelerated Corrosion (FAC) both on-line (3 points) and during RFO15 (34 points).

This letter contains no regulatory commitments.

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

Sincerely,



Stephen J. Bethay

WGL/dm

- Attachment A: ASME XI Inservice Inspection Plan for Pilgrim 2005 Online Examinations (2 pages)
- Attachment B: ASME XI Inspection Plan for Pilgrim 2005 Outage Examinations (4 pages)
- Attachment C: Pilgrim 2005 Refueling Outage 15 Vessel Internals Inspection Plan (5 pages)

cc: Mr. John Boska, Project Manager
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Senior Resident Inspector
Pilgrim Nuclear Power Station

ATTACHMENT A

ASME XI INSERVICE INSPECTION PLAN FOR PILGRIM 2005 ONLINE EXAMINATIONS

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>CATEGORY</u>	<u>SYSTEM</u>	<u>DRAWING</u>	<u>NDE</u>
14-P215A-HL	PUMP INTEGRAL ATTMT	C-C	CS	ISI-P215A	MT
GB-14-22HL1(4)	SUPPORT LUGS	C-C	CS	ISI-I-14-2B	VT-1 ALTERNATE
GB-14-28HL2(4)	SUPPORT LUGS	C-C	CS	ISI-I-14-2A	MT
DB-23-51HL1(4)	SUPPORT LUGS	C-C	HPCI	ISI-I-23-5	MT
HL-23-69HL1(24)	SUPPORT LUGS	C-C	HPCI	ISI-I-23-3	MT
10-P203A-HL	PUMP INTEGRAL ATTMT	C-C	RHR	ISI-P203A	MT
HB-10-83PS	PIPE STANCHION	C-C	RHR	ISI-I-10-1B	MT
HL-10-79PS	PIPE STANCHION	C-C	RHR	ISI-I-10-5BSH1	MT
GB-14-3-4D	PIPE TO WELDOLET	C-F-2	CS	ISI-I-14-2B	MT
HD-14-F91	TEE TO REDUCER	C-F-2	CS	ISI-I-14-2A	MT UT
HL-23-4-1B	ELBOW TO REDUCER	C-F-2	HPCI	ISI-I-23-3	MT UT
HE-26-F170	PIPE TO ELBOW	C-F-2	RCIC	ISI-I-13-5	MT UT
HE-26-F238	VALVE TO PIPE	C-F-2	RCIC	ISI-I-13-5	MT UT
GB-10-10-2C	TEE TO REDUCING ELBOW	C-F-2	RHR	ISI-I-10-5BSH2	MT UT
GB-10-F179	VALVE TO PIPE	C-F-2	RHR	ISI-I-10-4BSH1	MT UT
GB-10-F239	ELBOW TO PIPE	C-F-2	RHR	ISI-I-10-4BSH2	MT UT
GB-10-F28	REDUCING ELBOW TO ELBOW	C-F-2	RHR	ISI-I-10-5BSH2	MT UT
GB-10-F45	PIPE TO ELBOW	C-F-2	RHR	ISI-I-10-4BSH2	MT UT
GB-10-F52A	PIPE TO ELBOW	C-F-2	RHR	ISI-I-10-4BSH1	MT UT
GB-10-F70	ELBOW TO TEE	C-F-2	RHR	ISI-I-10-4BSH1	MT UT
HB-10-3003-2-2	PIPE TO ELBOW	C-F-2	RHR	ISI-I-10-1C	MT UT
HB-10-F79	VALVE TO ELBOW	C-F-2	RHR	ISI-I-10-1C	MT UT
HL-10-F107	ELBOW TO PIPE	C-F-2	RHR	ISI-I-10-4ASH1	MT UT
HL-10-F200R	VALVE TO PIPE	C-F-2	RHR	ISI-I-10-4ASH1	MT UT
HL-10-F73	PIPE TO NOZZLE	C-F-2	RHR	ISI-I-10-5BSH1	MT UT
HL-10-F76	ELBOW TO NOZZLE	C-F-2	RHR	ISI-I-10-5BSH1	MT UT
GB-14-VBW36A-1	VALVE BODY WELD	C-G	CS	ISI-I-14-2A	MT
GB-14-VBW36A-2	VALVE BODY WELD	C-G	CS	ISI-I-14-2A	MT
GB-10-VBW67A-1	VALVE BODY WELD	C-G	RHR	ISI-I-10-3A	MT
GB-10-VBW67A-2	VALVE BODY WELD	C-G	RHR	ISI-I-10-3A	MT
GL-10-VBW23A-1	VALVE BODY WELD	C-G	RHR	ISI-I-10-4ASH2	MT
GL-10-VBW23A-2	VALVE BODY WELD	C-G	RHR	ISI-I-10-4ASH2	MT
19-E206A-HL	HX INTEGRAL ATTMT	D-B	RBCCW	ISI-E206A	VT-3
HE-30-29PS	STANCHION	D-B	RBCCW	ISI-I-30-2SH2	VT-3
HE-30-31HL	HANGER LUG	D-B	RBCCW	ISI-I-30-2SH2	VT-3
HE-30-438PS	STANCHION	D-B	RBCCW	ISI-I-30-1SH1	VT-3
HE-30-439PS	STANCHION	D-B	RBCCW	ISI-I-30-1SH1	VT-3
HE-30-43HL(4)	HANGER LUGS	D-B	RBCCW	ISI-I-30-1SH2	VT-3
HE-30-57HL	HANGER LUG	D-B	RBCCW	ISI-I-30-1SH1	VT-3

ATTACHMENT A

ASME XI INSERVICE INSPECTION PLAN FOR PILGRIM 2005 ONLINE EXAMINATIONS

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>CATEGORY</u>	<u>SYSTEM</u>	<u>DRAWING</u>	<u>NDE</u>
HE-30-61HL	HANGER LUG	D-B	RBCCW	ISI-I-30-1SH1	VT-3
HE-30-61PS	STANCHION	D-B	RBCCW	ISI-I-30-2SH1	VT-3
HE-30-63HL	HANGER LUG	D-B	RBCCW	ISI-I-30-2SH1	VT-3
HE-30-64HL	HANGER LUG	D-B	RBCCW	ISI-I-30-2SH1	VT-3
H-50-1-TORUSBAY1	TORUS SUPPORTS	F-A	CONT	C1A175SH1 & C1A-62-4	VT-3 IWE
H-3-1-17	RIGID SUPPORT	F-A	CRD	ISI-I-3-1	VT-3
H-14-1-33	RIGID HANGER	F-A	CS	ISI-I-14-2B	VT-3
H-23-1-11	SPRING HANGER	F-A	HPCI	ISI-I-23-2	VT-3
H-23-1-3	RIGID HANGER	F-A	HPCI	ISI-I-23-5	VT-3
H-23-1-8	SPRING HANGER	F-A	HPCI	ISI-I-23-2	VT-3
H-23-1-P205	PUMP SUPPORT	F-A	HPCI	ISI-I-23-4	VT-3
H-19-1-E206A	HT EX SUPPORT	F-A	RBCCW	ISI-E206A	VT-3
H-30-1-119	RIGID HANGER	F-A	RBCCW	ISI-I-30-1SH1	VT-3
H-30-1-E122A	HT EX SUPPORT	F-A	RBCCW	ISI-E122A	VT-3
H-30-1-E209A	HT EX SUPPORT	F-A	RBCCW	ISI-E209A	VT-3
H-30-1-P202A	PUMP SUPPORT	F-A	RBCCW	ISI-P202A	VT-3
H-10-1-12	SPRING HANGER	F-A	RHR	ISI-I-10-5BSH2	VT-3
H-10-1-120	SPRING HANGER	F-A	RHR	ISI-I-10-1B	VT-3
H-10-1-155	SPRING HANGER	F-A	RHR	ISI-I-10-4ASH1	VT-3
H-10-1-164	RIGID HANGER	F-A	RHR	ISI-I-10-4BSH2	VT-3
H-10-1-280	LATERAL RESTRAINT	F-A	RHR	ISI-I-10-4ASH1	VT-3
H-10-1-55	RIGID SUPPORT	F-A	RHR	ISI-I-10-2B	VT-3
H-10-1-92S	SPRING HANGER	F-A	RHR	ISI-I-10-3B	VT-3
H-10-1-SG17	LATERAL RESTRAINT	F-A	RHR	ISI-I-10-2B	VT-3
H-10-1-SG18	RESTRAINT	F-A	RHR	ISI-I-10-2A	VT-3
H-10-1-SG19	RESTRAINT	F-A	RHR	ISI-I-10-1B	VT-3
H-10-1-SG22	LATERAL RESTRAINT	F-A	RHR	ISI-I-10-3A	VT-3
H-29-1-25	RIGID HANGER	F-A	SSW	ISI-I-29-1SH2	VT-3

ATTACHMENT B

ASME XI INSPECTION PLAN FOR PILGRIM 2005 OUTAGE EXAMINATIONS

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>CATEGORY</u>	<u>SYSTEM</u>	<u>DRAWING</u>	<u>NDE</u>
RPV-BH-C1	HEAD CIRCUMF WELD	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M1	MERID HEAD WELD 40	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M10	MERID HEAD WELD 65	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M11	MERID HEAD WELD 125	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M12	MERID HEAD WELD 185	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M13	MERID HEAD WELD 245	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M14	MERID HEAD WELD 305	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M2	MERID HEAD WELD 85	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M3	MERID HEAD WELD 130	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M4	MERID HEAD WELD 175	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M5	MERID HEAD WELD 220	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M6	MERID HEAD WELD 265	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M7	MERID HEAD WELD 310	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M8	MERID HEAD WELD 355	B-A	RPV	ISI-I-54-3	UT
RPV-BH-M9	MERID HEAD WELD 5	B-A	RPV	ISI-I-54-3	UT
RPV-HF-240-360	HEAD TO FLANGE	B-A	RPV	ISI-I-54-2	MT UT
RPV-L-1-338A	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-2-338A	LOWER SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-L-2-338C	LOWER SHELL VERTICAL WELD	B-A	RPV	ISI-I-54-1	UT
RPV-TH-C	HEAD CIRCUMF WELD	B-A	RPV	ISI-I-54-2	UT
RPV-TH-M4	MERID HEAD WELD 135	B-A	RPV	ISI-I-54-2	UT
RPV-TH-M5	MERID HEAD WELD 180	B-A	RPV	ISI-I-54-2	UT
RPV-TH-M6	MERID HEAD WELD 225	B-A	RPV	ISI-I-54-2	UT
RPV-TH-M7	MERID HEAD WELD 270	B-A	RPV	ISI-I-54-2	UT
RPV-TH-M8	MERID HEAD WELD 315	B-A	RPV	ISI-I-54-2	UT
RPV-N1B-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N1B-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N2G-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N2G-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N2H-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N2H-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N2K-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-1	UT
RPV-N2K-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-1	UT
RPV-N7A-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-2	UT
RPV-N7A-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-2	UT

ATTACHMENT B

ASME XI INSPECTION PLAN FOR PILGRIM 2005 OUTAGE EXAMINATIONS

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>CATEGORY</u>	<u>SYSTEM</u>	<u>DRAWING</u>	<u>NDE</u>
RPV-N7B-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-2	UT
RPV-N7B-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-2	UT
RPV-N8-NIR	NOZZLE INNER RADIUS	B-D	RPV	ISI-I-54-2	UT
RPV-N8-NV	NOZZLE TO VESSEL	B-D	RPV	ISI-I-54-2	UT
RPV-N11-NV	PART PENET NOZZLE	B-E	RPV	ISI-I-12-1SH1	VT-2
RPV-N14-NV	PART PENET NOZZLE	B-E	RPV	ISI-I-11-1	EVT-2
RPV-N15A-NV	PART PENET NOZZLE	B-E	RPV	ISI-I-54-1	EVT-2
RPV-N15B-NV	PART PENET NOZZLE	B-E	RPV	ISI-I-54-1	EVT-2
RPV-N16A-NV	PART PENET NOZZLE	B-E	RPV	ISI-I-54-1	EVT-2
RPV-N16B-NV	PART PENET NOZZLE	B-E	RPV	ISI-I-54-1	EVT-2
14-A-10A	VALVE TO PIPE	B-F	CS	ISI-I-14-1	MANUAL UT
14-A-3	PIPE TO REDUCER	B-F	CS	ISI-I-14-1	AUTO UT
14-B-10A	VALVE TO PIPE	B-F	CS	ISI-I-14-1	MANUAL UT
14-B-3	PIPE TO REDUCER	B-F	CS	ISI-I-14-1	AUTO UT
14-A-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-14-1	AUTO UT
14-B-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-14-1	AUTO UT
2R-N1B-1	NOZZLE TO SAFE END	B-F	RPV	ISI-I-2R-A	AUTO UT
2R-N2D-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-A	AUTO UT
2R-N2E-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-A	AUTO UT
2R-N2F-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-B	AUTO UT
2R-N2G-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-B	AUTO UT
2R-N2J-1	SAFE END TO NOZZLE	B-F	RPV	ISI-I-2R-B	AUTO UT
RPV-N16B-R-2	SAFE END TO REDUCER	B-F	RPV	ISI-I-54-4	UT
RPV-N14-1	SAFE END TO NOZZLE	B-F	SBLC	ISI-I-11-1	PT
RPV-CB-37-56	CLOSURE BUSHINGS	B-G-1	RPV	ISI-I-54-2	VT-1
RPV-CHN-37-56	CLOSURE HEAD NUTS	B-G-1	RPV	ISI-I-54-2	MT or VT-1
RPV-CS-37-56	CLOSURE STUDS	B-G-1	RPV	ISI-I-54-2	UT
RPV-CW-37-56	CLOSURE WASHERS	B-G-1	RPV	ISI-I-54-2	VT-1
RPV-FT-37-56	THREADS IN FLANGE	B-G-1	RPV	ISI-I-54-2	UT
RPV-HB-41	CLOSURE STUDS	B-G-1	RPV	ISI-I-54-2	UT per 98/2000 addenda
RPV-HB-42	CLOSURE STUDS	B-G-1	RPV	ISI-I-54-2	UT per 98/2000 addenda
RPV-HB-43	CLOSURE STUDS	B-G-1	RPV	ISI-I-54-2	UT per 98/2000 addenda

ATTACHMENT B

ASME XI INSPECTION PLAN FOR PILGRIM 2005 OUTAGE EXAMINATIONS

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>CATEGORY</u>	<u>SYSTEM</u>	<u>DRAWING</u>	<u>NDE</u>
RPV-HB-44	CLOSURE STUDS	B-G-1	RPV	ISI-I-54-2	UT per 98/2000 addenda
14-VB-1400-6A	VALVE BOLTING	B-G-2	CS	ISI-I-14-1	VT-1
14-VB-1400-9A	VALVE BOLTING	B-G-2	CS	ISI-I-14-1	VT-1
6-VB-62A	VALVE BOLTING	B-G-2	FW	ISI-I-6-1	VT-1
6-VB-62B	VALVE BOLTING	B-G-2	FW	ISI-I-6-1	VT-1
2-VB-202-5B	VALVE BOLTING	B-G-2	RECIRC	ISI-I-2R-B	VT-1
2-VB-63A	VALVE BOLTING	B-G-2	RECIRC	ISI-I-2R-A	VT-1
2-VB-64A	VALVE BOLTING	B-G-2	RECIRC	ISI-I-2R-A	VT-1
2-VB-64B	VALVE BOLTING	B-G-2	RECIRC	ISI-I-2R-B	VT-1
12-VB-1201-39	VALVE BOLTING	B-G-2	RWCU	ISI-I-12-1SH2	VT-1
12-VB-1201-65	VALVE BOLTING	B-G-2	RWCU	ISI-I-12-1SH2	VT-1
12-VB-1201-82	VALVE BOLTING	B-G-2	RWCU	ISI-I-12-2	VT-1
14-A-10	PIPE TO ELBOW	B-J	CS	ISI-I-14-1	UT
14-A-19	VALVE TO PIPE	B-J	CS	ISI-I-14-1	UT
14-A-9A	ELBOW TO PIPE	B-J	CS	ISI-I-14-1	UT
14R-A-11	PIPE TO VALVE	B-J	CS	ISI-I-14-1	UT
14R-B-21A	PIPE TO PIPE	B-J	CS	ISI-I-14-1	UT
6-N4A-12	REDUCER TO PIPE	B-J	FW	ISI-I-6-1	UT
6-N4A-13	TEE TO REDUCER	B-J	FW	ISI-I-6-1	UT
6-N4B-11	TEE TO ELBOW	B-J	FW	ISI-I-6-1	UT
1-C-15	FLUED HEAD TO PIPE	B-J	MS	ISI-I-1-1SH2	UT
1-D-15	FLUED HEAD TO PIPE	B-J	MS	ISI-I-1-1SH2	UT
1-SD-10R	PIPE TO VALVE	B-J	MS	ISI-I-1-1SH2	UT
2R-N2K-2	PIPE TO SAFE END	B-J	RECIRC	ISI-I-2R-B	UT
10-IA-14	PIPE TO FLUED HEAD	B-J	RHR	ISI-I-10-1	UT
10-IA-15	VALVE TO PIPE	B-J	RHR	ISI-I-10-1	UT
10R-IA-12	PENETRATION TO ELBOW	B-J	RHR	ISI-I-10-1	UT
12R-O-23	ELBOW TO PENETRATION	B-J	RWCU	ISI-I-12-1SH1	UT
B-11-75	PIPE TO PIPE	B-J	SBLC	ISI-I-11-1	PT UT
B-11-78	PIPE TO ELBOW	B-J	SBLC	ISI-I-11-1	PT UT
B-11-79	ELBOW TO PIPE	B-J	SBLC	ISI-I-11-1	PT UT
6-N4A-9HL1(8)	SUPPORT LUG	B-K-1	FW	ISI-I-6-1	MT
EB-23-VB4-1	VALVE BODY WELD	B-M-1	HPCI	ISI-I-23-1	UT
EB-23-VB4-2	VALVE BODY WELD	B-M-1	HPCI	ISI-I-23-1	UT
RPV INTERIOR	VESSEL INTERIOR	B-N-1	RPV	N/A	VT-3
RPV CSS	CORE SUPPORT STRUCT	B-N-2	RPV	N/A	VT-3

ATTACHMENT B

ASME XI INSPECTION PLAN FOR PILGRIM 2005 OUTAGE EXAMINATIONS

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>CATEGORY</u>	<u>SYSTEM</u>	<u>DRAWING</u>	<u>NDE</u>
RPV INT ATTACH - BELTLINE	RPV INTERIOR ATTACHMENTS WITHIN BELTLINE REGION	B-N-2	RPV	N/A	VT-1
RPV INT ATTACH - NON-BELT	RPV INTERIOR ATTACHMENTS OUTSIDE BELTLINE REGION	B-N-2	RPV	N/A	VT-3
RPV-CRD-HSG-1	CRD HOUSING WELD	B-O	RPV	N/A	PT
RPV-CRD-HSG-2	CRD HOUSING WELD	B-O	RPV	N/A	PT
RPV-CRD-HSG-3	CRD HOUSING WELD	B-O	RPV	N/A	PT
RPV-CRD-HSG-4	CRD HOUSING WELD	B-O	RPV	N/A	PT
CLASS 1 HYDRO	CLASS 1 HYDRO	B-P	VARIOUS	VARIOUS	VT-2
GB-14-F34	PIPE TO VALVE	C-F-1	CS	ISI-I-14-2B	PT UT
EB-23-F58R	VALVE TO PIPE	C-F-2	HPCI	ISI-I-23-2	MT UT
SLT RHR-13	PRESSURE BOUNDARY	C-H	RHR	ISI-I-10-1C	VT-2
SLT MS-2	SRV DISCHARGE INSIDE TORUS	D-B	MS	ISI-I-1-1SH1	VT-3
HE-30-SS12HL	HANGER LUG	D-B	RBCCW	ISI-I-30-2SH1	VT-3
IWE-ANNDRN-080	ANNULUS DRAINS(2) AT 80 AZ.	E-C	CONT	ISI-IWE-AUG-1	VT-2
IWE-ANNDRN-170	ANNULUS DRAINS(2) AT 170 AZ.	E-C	CONT	ISI-IWE-AUG-1	VT-2
IWE-ANNDRN-260	ANNULUS DRAINS(2) AT 260 AZ.	E-C	CONT	ISI-IWE-AUG-1	VT-2
IWE-ANNDRN-350	ANNULUS DRAINS(2) AT 350 AZ.	E-C	CONT	ISI-IWE-AUG-1	VT-2
IWE-CB-GIBS225	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1 IWE
IWE-CB-GIBS315	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1 IWE
IWE-CB-X2	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1 IWE
IWE-CB-X200A	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1 IWE
IWE-CB-X213B	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1 IWE
IWE-CB-X35B	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1 IWE
IWE-CB-X35C	CONTAINMENT BOLTING	E-G	CONT	N/A	VT-1 IWE
H-50-1-315GIBS	DRYWELL STABILIZER	F-A	CONT	ISI-IWE-AUG-1	VT-3 IWE
H-6-1-101	SPRING HANGER	F-A	FW	ISI-I-6-1	VT-3
H-6-1-107	SPRING HANGER	F-A	FW	ISI-I-6-1	VT-3
H-1-1-HA4	SPRING HANGER	F-A	MS	ISI-I-1-1SH1	VT-3
H-1-1-HD4	SPRING HANGER	F-A	MS	ISI-I-1-1SH1	VT-3
H-30-1-SS12	SNUBBER	F-A	RBCCW	ISI-I-30-2SH1	VT-3
H-2-1-SS3	SNUBBER	F-A	RECIRC	ISI-I-2R-A	VT-3
H-10-1-176	SPRING HANGER	F-A	RHR	ISI-I-10-1A	VT-3
H-54-1-1	RPV SUPPORT	F-A	RPV	N/A	VT-3
H-12-1-96	GUIDE	F-A	RWCU	ISI-I-12-1SH2	VT-3
H-1-1-37	RIGID HANGER	F-A-CL4	MS	ISI-I-1-1SH2	VT-3

ATTACHMENT C

PILGRIM 2005 REFUELING OUTAGE 15 VESSEL INTERNALS INSPECTION PLAN

Core Spray Piping

EVT-1 of the following:

AP1 thermal sleeve-to-tee box weld at 90° (limited coverage for EVT-1)
AP2 tee box-to-end cover weld at 90°
1P3 tee box-to-header weld at 90°
1P5 upper downcomer-to-slip fitting weld at 15°
1P6 middle slip fitting weld at 15°
1P7 slip fitting-to-lower downcomer weld at 15°
1P8a shroud pipe-to-collar weld at 15°
1P8b collar-to-shroud weld at 15°
2P3 tee box-to-header weld at 90°
2P5 upper downcomer-to-slip fitting weld at 165°
2P6 middle slip fitting weld at 165°
2P7 slip fitting-to-lower downcomer weld at 165°
2P4c lower downcomer-to-elbow weld at 165°
2P8a shroud pipe-to-collar weld at 165°
2P8b collar-to-shroud weld at 165°
BP1 thermal sleeve-to-tee box weld at 270° (limited coverage for EVT-1)
BP2 tee box-to-end cover weld at 270°
3P3 tee box-to-header weld at 270°
3P5 upper downcomer-to-slip fitting weld at 195°
3P6 middle slip fitting weld at 195°
3P7 slip fitting-to-lower downcomer weld at 195°
3P4c lower downcomer-to-elbow weld at 195°
3P8a shroud pipe-to-collar weld at 195°
3P8b collar-to-shroud weld at 195°
4P3 tee box-to-header weld at 270°
4P4b elbow-to-upper downcomer weld at 345°
4P5 upper downcomer-to-slip fitting weld at 345°
4P6 middle slip fitting weld at 345°
4P7 slip fitting-to-lower downcomer weld at 345°
4P4c lower downcomer-to-elbow weld at 345°
4P8a shroud pipe-to-collar weld at 345°
4P8b collar-to-shroud weld at 345°
EVT-1 and VT-3 of bracket PB1 at 30°
EVT-1 and VT-3 of bracket PB2 at 150°
EVT-1 and VT-3 of bracket PB3 at 210°
EVT-1 and VT-3 of bracket PB4 at 330°

Core Spray Sparger

EVT-1 of the following:

A-1S4 End Cap to Sparger Pipe at 275°
A-1S2 Sparger Pipe to Tee Box at 15°
A-S1 Cover Plate to Sparger Tee Box at 15°
A-2S2 Sparger Pipe to Tee Box at 15°
A-2S4 End Cap to Sparger Pipe at 85°
B-1S4 End Cap to Sparger Pipe at 275°
B-1S2 Sparger Pipe to Tee Box at 345°
B-S1 Cover Plate to Sparger Tee Box at 345°
B-2S2 Sparger Pipe to Tee Box at 345°
B-2S4 End Cap to Sparger Pipe at 85°
C-1S4 End Cap to Sparger Pipe at 95°
C-1S2 Sparger Pipe to Tee Box at 165°

ATTACHMENT C

PILGRIM 2005 REFUELING OUTAGE 15 VESSEL INTERNALS INSPECTION PLAN

CS1 Cover Plate to Sparger Tee Box at 165°
C-2S2 Sparger Pipe to Tee Box at 165°
C-2S4 End Cap to Sparger Pipe at 265°
D-1S4 End Cap to Sparger Pipe at 95°
D-1S2 Sparger Pipe to Tee Box at 195°
D-S1 Cover Plate to Sparger Tee Box at 195°
D-2S2 Sparger Pipe to Tee Box at 195°
D-2S4 End Cap to Sparger Pipe at 265°

VT-1 of the following:

B-S3a Adapter to Sparger Pipe Welds (275° to 85°)
B-S3b Nozzle to Adapter Welds (275° to 85°)
B-S3c Drain to Sparger Weld
D-S3a Adapter to Sparger Pipe Welds (95° to 265°)
D-S3b Nozzle to Adapter Welds (95° to 265°)
D-S3c Drain to Sparger Weld
AB-SB1 sparger bracket at 275°
AB-SB2 sparger bracket at 305°
AB-SB3 sparger bracket at 345°
AB-SB4 sparger bracket at 15°
AB-SB5 sparger bracket at 55°
AB-SB6 sparger bracket at 85°
CD-SB1 sparger bracket at 95°
CD-SB2 sparger bracket at 125°
CD-SB3 sparger bracket at 165°
CD-SB4 sparger bracket at 195°
CD-SB5 sparger bracket at 235°
CD-SB6 sparger bracket at 265°

Guide Rods

VT-3 of attachment weld at 0°
VT-3 of attachment weld at 180°

Jet Pump

VT-1 of 1-WD restrainer wedge at 22°
VT-1 of 2-WD restrainer wedge at 38°
VT-1 of 4-WD restrainer wedge at 68°
VT-1 of 6-WD restrainer wedge at 98°
VT-1 of 7-WD restrainer wedge at 112°
VT-1 of 8-WD restrainer wedge at 128°
VT-1 of 9-WD restrainer wedge at 142°
VT-1 of 10-WD restrainer wedge at 158°
VT-1 of 12-WD restrainer wedge at 218°
VT-1 of 13-WD restrainer wedge at 232°
VT-1 of 14-WD restrainer wedge at 248°
VT-1 of 15-WD restrainer wedge at 262°
VT-1 of 16-WD restrainer wedge at 278°
VT-1 of 17-WD restrainer wedge at 292°
VT-1 of 19-WD restrainer wedge at 222°
VT-1 of 20-WD restrainer wedge at 338°
VT-1 of 1-RK-1 restrainer-to-riser collar weld and gusset welds at 30° (if wedge is 100% down)
VT-1 of 1-RK-2 restrainer-to-setscrew bracket welds at 22° (if wedge is 100% down)

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VT-1 of 1-RK-3 restrainer-to-wedge bracket welds at 22° (if wedge is 100% down)
VT-1 of 2-RK-1 restrainer-to-riser collar weld and gusset welds at 30° (if wedge is 100% down)
VT-1 of 2-RK-2 restrainer-to-setscrew bracket welds at 38° (if wedge is 100% down)
VT-1 of 2-RK-3 restrainer-to-wedge bracket welds at 38° (if wedge is 100% down)
VT-1 of 4-RK-1 restrainer-to-riser collar weld and gusset welds at 60° (if wedge is 100% down)
VT-1 of 4-RK-2 restrainer-to-setscrew bracket welds at 68° (if wedge is 100% down)
VT-1 of 4-RK-3 restrainer-to-wedge bracket welds at 68° (if wedge is 100% down)
VT-1 of 6-RK-1 restrainer-to-riser collar weld and gusset welds at 90° (if wedge is 100% down)
VT-1 of 6-RK-2 restrainer-to-setscrew bracket welds at 98° (if wedge is 100% down)
VT-1 of 6-RK-3 restrainer-to-wedge bracket welds at 98° (if wedge is 100% down)
VT-1 of 7-RK-1 restrainer-to-riser collar weld and gusset welds at 120° (if wedge is 100% down)
VT-1 of 7-RK-2 restrainer-to-setscrew bracket welds at 112° (if wedge is 100% down)
VT-1 of 7-RK-3 restrainer-to-wedge bracket welds at 112° (if wedge is 100% down)
VT-1 of 8-RK-1 restrainer-to-riser collar weld and gusset welds at 120° (if wedge is 100% down)
VT-1 of 8-RK-2 restrainer-to-setscrew bracket welds at 128° (if wedge is 100% down)
VT-1 of 8-RK-3 restrainer-to-wedge bracket welds at 128° (if wedge is 100% down)
VT-1 of 9-RK-1 restrainer-to-riser collar weld and gusset welds at 150° (if wedge is 100% down)
VT-1 of 9-RK-2 restrainer-to-setscrew bracket welds at 142° (if wedge is 100% down)
VT-1 of 9-RK-3 restrainer-to-wedge bracket welds at 142° (if wedge is 100% down)
VT-1 of 10-RK-1 restrainer-to-riser collar weld and gusset welds at 150° (if wedge is 100% down)
VT-1 of 10-RK-2 restrainer-to-setscrew bracket welds at 158° (if wedge is 100% down)
VT-1 of 10-RK-3 restrainer-to-wedge bracket welds at 158° (if wedge is 100% down)
VT-1 of 14-RK-1 restrainer-to-riser collar weld and gusset welds at 240° (if wedge is 100% down)
VT-1 of 14-RK-2 restrainer-to-setscrew bracket welds at 248° (if wedge is 100% down)
VT-1 of 14-RK-3 restrainer-to-wedge bracket welds at 248° (if wedge is 100% down)
VT-1 of 15-RK-1 restrainer-to-riser collar weld and gusset welds at 270° (if wedge is 100% down)
VT-1 of 15-RK-2 restrainer-to-setscrew bracket welds at 262° (if wedge is 100% down)
VT-1 of 15-RK-3 restrainer-to-wedge bracket welds at 262° (if wedge is 100% down)
VT-1 of 16-RK-1 restrainer-to-riser collar weld and gusset welds at 270° (if wedge is 100% down)
VT-1 of 16-RK-2 restrainer-to-setscrew bracket welds at 278° (if wedge is 100% down)
VT-1 of 16-RK-3 restrainer-to-wedge bracket welds at 278° (if wedge is 100% down)
VT-1 of 17-RK-1 restrainer-to-riser collar weld and gusset welds at 300° (if wedge is 100% down)
VT-1 of 17-RK-2 restrainer-to-setscrew bracket welds at 292° (if wedge is 100% down)
VT-1 of 17-RK-3 restrainer-to-wedge bracket welds at 292° (if wedge is 100% down)
VT-1 of 19-RK-1 restrainer-to-riser collar weld and gusset welds at 330° (if wedge is 100% down)
VT-1 of 19-RK-2 restrainer-to-setscrew bracket welds at 222° (if wedge is 100% down)
VT-1 of 19-RK-3 restrainer-to-wedge bracket welds at 222° (if wedge is 100% down)

Shroud

EVT-1 of vertical weld V7 between H1 and H2 at 45° (both OD and ID)
EVT-1 of vertical weld V8 between H1 and H2 at 225° (both OD and ID)
EVT-1 of ring segment weld V9 between H2 and H3 at 10° (OD only)
EVT-1 of ring segment weld V10 between H2 and H3 at 70° (OD only)
EVT-1 of ring segment weld V11 between H2 and H3 at 130° (OD only)
EVT-1 of ring segment weld V12 between H2 and H3 at 190° (OD only)
EVT-1 of ring segment weld V13 between H2 and H3 at 250° (OD only)
EVT-1 of ring segment weld V14 between H2 and H3 at 310° (OD only)
EVT-1 of vertical weld V15 between H3 and H4 at 135° (both OD and ID – void closest fuel cell)
EVT-1 of vertical weld V16 between H3 and H4 at 315° (both OD and ID – void closest fuel cell)
EVT-1 of vertical weld V17 between H4 and H5 at 45° (both OD and ID – void closest fuel cell)
EVT-1 of vertical weld V18 between H4 and H5 at 225° (both OD and ID – void closest fuel cell)
EVT-1 of vertical weld V22 between H6 and H7 at 135° (both OD and ID – void closest fuel cell)
EVT-1 of vertical weld V23 between H6 and H7 at 315° (both OD and ID – void closest fuel cell)

ATTACHMENT C

PILGRIM 2005 REFUELING OUTAGE 15 VESSEL INTERNALS INSPECTION PLAN

EVT-1 of vertical weld V30 between H8 and H9 at 45° (OD only)
EVT-1 of vertical weld V31 between H8 and H9 at 225° (OD only)

Shroud Support

EVT-1 of vertical weld V32 between H9 and H10 at 0° (OD only)
EVT-1 of vertical weld V33 between H9 and H10 at 120° (OD only)
EVT-1 of vertical weld V34 between H9 and H10 at 240° (OD only)
EVT-1 of gusset-to-RPV and gusset-to-ledge welds at 30°
VT-3 of gusset-to-RPV weld at 60°
VT-3 of gusset-to-RPV weld at 90°
VT-3 of gusset-to-RPV weld at 105°
EVT-1 of gusset-to-RPV and gusset-to-ledge welds at 120°
VT-3 of gusset-to-RPV weld at 150°
VT-3 of gusset-to-RPV weld at 210°
EVT-1 of gusset-to-RPV and gusset-to-ledge welds at 240°
VT-3 of gusset-to-RPV weld at 270°
VT-3 of gusset-to-RPV weld at 285°
VT-3 of gusset-to-RPV weld at 330°
EVT-1 of top of H11 (ledge-to-RPV) weld from gusset to gusset by access hole covers at 0° and 180°
VT-3 of top of H11 (ledge-to-RPV) weld between all remaining gussets (20 areas)

Steam Dryer

VT-1 of H1-90° cover plate weld
VT-1 of H2-90° cover plate weld
VT-1 of R1-90° cover plate weld
VT-1 of S1-90° cover plate weld
VT-1 of S1-90° cover plate weld
VT-1 of V1-90° outer hood weld
VT-1 of V2-90° outer hood weld
VT-1 of V3-90° outer hood weld
VT-1 of leveling screw tack welds at 45°
VT-1 of steam dam welds at 45°
VT-1 of V4-90° outer hood weld
VT-1 of V5-90° outer hood weld
VT-1 of V6-90° outer hood weld
VT-1 of V7-90° outer hood weld
VT-1 of V8-90° outer hood weld
VT-1 of leveling screw tack welds at 135°
VT-1 of steam dam welds at 135°
VT-1 of V9-90° outer hood weld
VT-1 of V10-90° outer hood weld
VT-1 of V11-90° outer hood weld
VT-1 of V12-90° outer hood weld
VT-1 of H1-270° cover plate weld
VT-1 of H2-270° cover plate weld
VT-1 of R1-270° cover plate weld
VT-1 of S1-270° cover plate weld
VT-1 of S1-270° cover plate weld
VT-1 of V1-270° outer hood weld
VT-1 of V2-270° outer hood weld
VT-1 of V3-270° outer hood weld
VT-1 of leveling screw tack welds at 225°

ATTACHMENT C

PILGRIM 2005 REFUELING OUTAGE 15 VESSEL INTERNALS INSPECTION PLAN

VT-1 of steam dam welds at 225°
VT-1 of V4-270° outer hood weld
VT-1 of V5-270° outer hood weld
VT-1 of V6-270° outer hood weld
VT-1 of V7-270° outer hood weld
VT-1 of V8-270° outer hood weld
VT-1 of leveling screw tack welds at 315°
VT-1 of steam dam welds at 315°
VT-1 of V9-270° outer hood weld
VT-1 of V10-270° outer hood weld
VT-1 of V11-270° outer hood weld
VT-1 of V12-270° outer hood weld
VT-1 of TB-01 tie bar and welds
VT-1 of TB-02 tie bar and welds
VT-1 of TB-03 tie bar and welds
VT-1 of TB-04 tie bar and welds
VT-1 of TB-05 tie bar and welds
VT-1 of TB-06 tie bar and welds
VT-1 of TB-07 tie bar and welds
VT-1 of TB-08 tie bar and welds
VT-1 of TB-09 tie bar and welds
VT-1 of TB-10 tie bar and welds
VT-1 of TB-11 tie bar and welds
EVT-1 and VT-3 of support bracket at 35° – also inspect top of bracket contact area for wear
EVT-1 and VT-3 of support bracket at 145° – also inspect top of bracket contact area for wear
EVT-1 and VT-3 of support bracket at 215° – also inspect top of bracket contact area for wear
EVT-1 and VT-3 of support bracket at 325° – also inspect top of bracket contact area for wear
VT-3 of hold-down bracket at 35° (under head) – also inspect bottom of bracket contact area for wear
VT-3 of hold-down bracket at 145° (under head) – also inspect bottom of bracket contact area for wear
VT-3 of hold-down bracket at 215° (under head) – also inspect bottom of bracket contact area for wear
VT-3 of hold-down bracket at 325° (under head) – also inspect bottom of bracket contact area for wear

Surveillance Specimen Holders

VT-1 and VT-3 of upper bracket at 120°
VT-1 and VT-3 of lower bracket at 120°
VT-1 and VT-3 of upper bracket at 210°
VT-1 and VT-3 of lower bracket at 210°
VT-1 and VT-3 of upper bracket at 300°
VT-1 and VT-3 of lower bracket at 300°

Vessel Interior

VT-3 (Section XI requirement – take credit for all above reactor internals examinations)