



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

August 22, 2017

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

SUBJECT: Pilgrim Nuclear Power Station (PNPS) Owners Activity Report (OAR-1)
for Cycle 21

Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
Docket No. 50-293
Renewed License No. DPR-35

LETTER NUMBER: 2.17.063

Dear Sir or Madam:

By this letter Entergy submits to the Nuclear Regulatory Commission (NRC) the attached Pilgrim Nuclear Power Station (PNPS) Owners Activity Report (OAR-1) for Cycle 21.

This report has been prepared in accordance with the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI 2007 with 2008 addenda and NRC approved Code Case N-532-5. The report has been certified by the Authorized Nuclear Inservice Inspector (ANII) attesting that all code-required examinations and repair/replacement activities at PNPS during Cycle 21 were performed in accordance with the requirements of the ASME Section XI.

If you have any questions regarding the information contained in this letter, please contact me at (508) 830-8323.

There are no regulatory commitments contained in this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Everett P. Perkins, Jr." with a stylized flourish at the end.

Everett P. (Chip) Perkins, Jr.
Regulatory Assurance Manager

EPP/sc

Attachment: Engineering Report No. PNPS-RPT-17-00002, Rev. 0
"PNPS Owners Activity Report (OAR-1) for Cycle 21" (3 pages)

A047
NRR

cc: Mr. Daniel H. Dorman
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
2100 Renaissance Blvd., Suite 100
King of Prussia, PA 19406-1415

Mr. John G. Lamb, Project Manager
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Mail Stop: O-8B1-A
Washington, DC 20555-0001

NRC Senior Resident Inspector
Pilgrim Nuclear Power Station

Attachment

To PNPS Letter 2.17.063

Engineering Report No. PNPS-RPT-17-00002, Rev. 0

"PNPS Owners Activity Report (OAR-1) for Cycle 21"

(3 pages)

ATTACHMENT 9.1

ENGINEERING REPORT COVER SHEET & INSTRUCTIONS

Engineering Report No. PNPS-RPT-17-00002 Rev 0

Page 1 of 3



ENTERGY NUCLEAR
Engineering Report Cover Sheet

Engineering Report Title:

PNPS OWNERS ACTIVITY REPORT (OAR-1) FOR CYCLE 21

Engineering Report Type:

New Revision Cancelled Superseded
Superseded by: _____

Applicable Site(s)

IP1 IP2 IP3 JAF PNPS VY WPO
ANO1 ANO2 ECH GGNS RBS WF3 PLP

EC No. N/A

Report Origin: Entergy Vendor
Vendor Document No.: N/A

Quality-Related: Yes No

Prepared by: William Carroll *William Carroll* Date: 8/16/17
Responsible Engineer (Print Name/Sign)

Reviewed by: Katie Bienvenue *Katie Bienvenue* Date: 8/16/17
Reviewer (Print Name/Sign)

Approved by: Elizabeth York (HSB I&I Co.) *Elizabeth York* Date: 08.16.2017
ANII (Print Name/Sign)

Approved by: Hamil Grimes *Hamil Grimes* Date: 8/21/17
Supervisor Manager (Print Name/Sign)

FORM OAR-1 OWNERS ACTIVITY REPORT

Report Number PNPS-RPT-17-00002

Plant PILGRIM NUCLEAR POWER STATION, 600 Rocky Hill Road, Plymouth, MA 02360
(Name and Address of Plant)

Plant Unit 1 Commercial Service Date June 8, 1972 Refueling Outage Number 21

Current Inspection Interval 5th
(1st, 2nd, 3rd, 4th, Other)

Current Inspection Period 1st
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the Inspection Plan 2007 Edition, 2008 Addenda

Date and Revision of Inspection Plan: PNPS ISI Program Plan, No. SEP-ISI-PNPS-002 Rev.4

Edition and Addenda of ASME Section XI applicable to Repairs and Replacements, if different than the Inspection Plan 2001 Edition, 2003 Addenda

Code Cases used for inspection and evaluation: N-716 N-795

CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of RFO20 conform to the requirements of Section XI.

Signed William Carroll / Sr Engineer  Date 8/16/17
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 employed by The Hartford Steam Boiler Inspection and Insurance Company have inspected the components described in this Owners Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all the activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

 Commissions NB 9384 MA 1392 AT IS C I N R
Inspector's Signature National Board, State, Province, and Endorsements

Date 08.16.2017

**TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED
EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item Number	Item Description	Evaluation Description
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NONE

**TABLE 2
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE**

Code Class	Item Description	Description Of Work	Date Completed	Repair/Replacement Plan Number
3	Replacement	Overhaul SSW P-208A IAW 3.M.4-14.2	11/24/15	334804
3	Replacement	29-HO-3815 degraded bolting needs to be replaced	1/21/16	371143
3	Replacement	Replace H29-1-1063 Support IAW EC64688	5/26/16	445791
3	Replacement	Replace H29-1-1065 due to corrosion	6/17/16	445125
3	Replacement	Replace Support H29-1-1062 IAW EC64713	6/17/16	445794
3	Replacement	EC64673* Replace support H29-1-1064 - P-208E	6/17/16	445634
1	Replacement	Install Standard non-upgraded 2 stage pilot for RV-203-3B (leaking)	9/21/16	455538
3	Replacement	Clean inspect and repair base plates on H-29-1-36	11/7/16	352595
1	Replacement	**EC68754** seal weld bonnet AO-203-2D to correct leakage	12/19/16	463518
3	Replacement	Clean inspect and repair base plates on H-29-1-37	1/16/17	452151
2	Replacement	Heat exchanger upper head lower flange leak injected studs	2/23/17	5153968
3	Replacement	Replace H29-1-9SG -- due to corrosion	3/28/16	427705
1	Replacement	Contingency rebuild MSIV AO-203-1C	4/1/17	51536403
3	Repair	Repair H29-1-11SG -- due to corrosion	4/7/16	428288
1	Replacement	{1R} Perform LPRM Exchanges	4/15/17	52642270
1	Repair	Perform internal valve repairs AO-203-1D	4/17/17	472778
1	Replacement	Replace O-rings in CRD-38-35 to correct leakage	4/19/17	472816
1	Replacement	Rebuild MSIV AO-203-2C replace stem	4/21/17	464820
2	Replacement	Perform valve overhaul to correct valve leak by MO-1400-4A	4/22/17	434935
3	Replacement	Replace valve for MO-3801	4/22/17	310498
3	Replacement	Replace 29-HO-3828	4/22/17	310497
1	Replacement	Replace Head vent bolting - at bulkhead flange	5/7/17	52642239
MC	Replacement	Replace Torus Hatch Bolting PER EC72003	5/10/17	52653307
3	Repair	Repair HPCI Turbine Exhaust 23-CK-2301-45	5/16/17	51551682