



10CFR 50.55a

January 20, 2016

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

Peach Bottom Atomic Power Station (PBAPS) Units 2 and 3  
Renewed Facility Operating License Nos. DPR-44 and DPR-56  
NRC Docket Nos. 50-277 and 50-278

Subject: Submittal of the In-Service Inspection (ISI) Owner's Activity Report (OAR)  
for the 20<sup>th</sup> Refueling Outage for Unit 3

Enclosed in Attachment 1 is the ISI Owner's Activity Report covering ISI activities associated with the second period of the current ISI inspection interval for Unit 3. This report is submitted pursuant to the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, "Rules for the Inservice Inspection of Nuclear Power Plant Components," Article IWA-6200, "Requirements" (2001 Edition through 2003 Addenda) and ASME Code Case N-532-4 (Repair/Replacement Activity Documentation Requirements and In-Service Summary Report Preparation and Submission, section XI, Division 1).

If you have any questions or require additional information, feel free to contact Brian Rufo at 717-456-3250.

Sincerely,

A handwritten signature in black ink, appearing to read "P. Navin", with a long horizontal flourish extending to the right.

Patrick D. Navin  
Plant Manager  
Peach Bottom Atomic Power Station

Attachments

cc: US NRC, Administrator, Region I  
US NRC, Senior Resident Inspector  
R. R. Janati, Commonwealth of Pennsylvania  
S. Gray, State of Maryland  
B. Watkins, PSE&G, Financial Controls and Co-owner Affairs

CCN: 16-01

**Attachment 1**

**Peach Bottom Atomic Power Station Unit 3**

**Owner's Activity Report for the 20<sup>th</sup> Refueling Outage**

# PEACH BOTTOM ATOMIC POWER STATION, UNIT No. 3 – P3R20 OAR REPORT

## FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number P3R20

Plant Peach Bottom Atomic Power Station, 1848 Lay Road, Delta, PA 17314

Unit No. 3 Commercial Service Date December 23, 1974 Refueling Outage No. 20

Current Inspection Interval ISI = Fourth / CISI = Second

Current Inspection Period ISI = Third / CISI = Third

Edition and Addenda of Section XI Applicable to the inspection plans 2001 Edition through 2003 Addenda

Date and revision of inspection plan 09/02/2014 Rev 4

Edition & Addenda of Section XI Applicable to repairs and replacements, if different than the inspection plan  
2001 Edition through 2003 Addenda (same as inspection plan)

Code Cases used: N-460, N-513-3, N-532-4, N-578-1, N-700 & N-702

### 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 P3R20 conform to the requirements of Section XI.

Signed Brian Rufo Brian Rufo, ISI Program Owner Date 1/14/2016  
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 Pennsylvania and employed by The Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all 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 a loss of any kind arising from or connected with this inspection.

Brian Rufo Commissions 13328 ANI PA3093  
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/15/2016

TABLE 1

**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO.3  
OCTOBER 24, 2013 TO OCTOBER 22, 2015  
(END OF P3R20 REFUEL OUTAGE)**

Examination Category	Item Number	Item Description	Evaluation Description
E-A	E1.11	Coating Subpile Room	Relevant Condition – Coating damage was identified on the subpile room floor exceeded the acceptance criteria. The damage was evaluated by the coatings engineer and it was determined that the maximum unqualified coating limit was not exceeded and no repair was required. (Ref IR – 2561005)
E-A	E1.10	Moisture Barrier	Relevant Condition – Cracked concrete, moisture barrier damage; IWE-3510.4. Condition was evaluated to be acceptable. Repairs planned for P3R21. (Ref IR 2561844)
F-A	F1.30C	1GG-H299 Support	Relevant Condition – Ucar plate (item 2) was found broken; this condition exceeded the allowable criteria of IWF-3410. The condition was evaluated and determined not to impact the functionality of the support. (Ref IR – 2560404)
F-A	F1.20A	23DDN-S31 Support	Relevant Condition – Strut found out of alignment, IWF-3410(a). IWF-3122.3 allows for acceptance after engineering evaluation. The as found condition was evaluated, ECR 15-00368, and found to be acceptable in the as-found orientation. (Ref IR – 2565122)
F-A	F1.20C	7DB-H75 Spring Can	Relevant Condition – The stanchion was found misaligned 2.3”. Evaluation determined that the stanchion is located such that it will be centered within a reasonable tolerance when the unit is online and thermal effects are taken into account, reference ECR 12-00016. No actions required as found is acceptable. (Ref IR - 2565125)

**TABLE 1**

01/12/16, PAGE 2 OF 1

**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO.3  
OCTOBER 24, 2013 TO OCTOBER 22, 2015  
(END OF P3R20 REFUEL OUTAGE)**

Examination Category	Item Number	Item Description	Evaluation Description
F-A	F1.20	Drywell Head	Relevant Condition – Identified missing coating, damage to flange surface, and cracked tack welds which required evaluation per IWE-3000. All three conditions were previously identified and evaluated. The current conditions were compared and found to be acceptable, no changes to the conditions previously identified and evaluated. (Ref IR - 2566726)

TABLE 2

01/15/2016 Page 1 of 4

**ABSTRACT OF ASME REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 24, 2013 TO OCTOBER 22, 2015  
( END OF P3R20 REFUEL OUTAGE )**

**SYSTEM 01: MAIN STEAM AND TURBINE SYSTEM**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam</u>	<u>Date</u>	<u>R&amp;R Plan # and W/O #</u>
				<u>Or Test</u>	<u>Complete</u>	
1	Replacement,	RV-3-02-070B	Replace Main Steam Safety Relief Valve	No	10/1/2015	15-043; R1217926
1	Replacement,	RV-3-02-071A	Replace Main Steam Safety Relief Valve	No	10/2/2015	15-044; R1218952
1	Replacement,	RV-3-02-071F	Replace Main Steam Safety Relief Valve	No	10/2/2015	15-046; R1217928
1	Replacement,	RV-3-02-071L	Replace Main Steam Safety Relief Valve	No	10/1/2015	15-048; R1212500
1	Replacement,	HV-3-01A-83A-D	Install Main Steam Back Supports	No	9/26/2015	15-108; C0255970

**SYSTEM 03: CONTROL ROD DRIVE**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam</u>	<u>Date</u>	<u>R&amp;R Plan # and W/O #</u>
				<u>Or Test</u>	<u>Complete</u>	
1	Replacement	CRD's 02-19, 14-11, 14-19 14-23, 18-03, 18-07, 22-03 22-07, 22-19, 26-31, 26-59 30-03, 34-15, 38-03, 38-43 42-55, 46-47, 50-15, 54-47	Exchanged CRD's with rebuilt CRD's	No	10/6/2015	15-051; R1276199

**SYSTEM 04: REACTOR PRESSURE VESSEL & INTERNALS**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam</u>	<u>Date</u>	<u>R&amp;R Plan # and W/O #</u>
				<u>Or Test</u>	<u>Complete</u>	
1	Repair	Reactor vessel lug	Repair 94 degree lug in reactor vessel	No	10/15/2015	15-220; C0258822

TABLE 2

01/15/2016 Page 2 of 4

**ABSTRACT OF ASME REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 24, 2013 TO OCTOBER 22, 2015  
( END OF P3R20 REFUEL OUTAGE )**

**SYSTEM 06: FEEDWATER**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
1	Repair	CHK-3-06-28B	Bonnet modification of feedwater check valve	No	10/6/2015	15-202; R1016927

**SYSTEM 10: RESIDUAL HEAT REMOVAL**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
2	Replacement	PB-3-10-3BE024	Replace Hx floating head	No	10/14/2015	15-018; C0239938

**SYSTEM 12: REACTOR WATER CLEAN UP**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
1	Replacement	RWCU Piping	Piping replacement upstream of CHK-3-12-062	Yes	10/13/2015	15-159; C0255958

**SYSTEM 14: CORE SPRAY**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
1	Repair	MO-3-14-012A	Repair valve due to degraded performance	No	9/29/2015	15-114; C0256126



TABLE 2

**ABSTRACT OF ASME REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 24, 2013 TO OCTOBER 22, 2015  
( END OF P3R20 REFUEL OUTAGE )**

**SYSTEM 23: HIGH PRESSURE COOLANT INJECTION SYSTEM**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
1	Repair	MO-3-23-019	Repair valve internals	No	10/8/2015	13-129; C0247318
2	Replacement	HV-3-23C-33442/43	Install new HPCI vent line branch connections	No	10/9/2015	15-116; C0250475

**SYSTEM 65A: HYDRAULIC SNUBBERS**

<u>Code Class</u>	<u>Repair, Replacement, or Corrective Measure</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
1	Replacement	SS-B-1	Replace Snubber SS-B-1	No	10/2/2015	05-097; R0508767
1	Replacement	SS-B-5	Replace Snubber SS-B-5	No	10/1/2015	13-092; R0545765
1	Replacement	6-DDNL-S-14	"U3" Feedwater Snubber - REPLACE	No	9/23/2015	15-086; R0546136
1	Replacement	6-DDNL-S-6	"U3" Feedwater Snubber - REPLACE	No	9/30/2015	15-087; R0545108
1	Replacement	SS-D-1	"U3" Main Steam Snubber - REPLACE	No	10/1/2015	15-088; R0545102
2	Replacement	10-GB-S-54	"U3" RHR Snubber - REPLACE	No	10/15/2015	15-091; R0545192
1	Replacement	SS-C-1	"U3" Main Steam Snubber - REPLACE	No	9/30/2015	15-092; R0545224
2	Replacement	10-GB-S-49	"U3" RHR Snubber - REPLACE	No	10/14/2015	15-093; R0545772
2	Replacement	10-GB-S-48	"U3" RHR Snubber - REPLACE	No	10/14/2015	15-094; R0545775
2	Replacement	1-DB-S-417	"U3" Main Steam Snubber - REPLACE	No	10/12/2015	15-221; C0258943
2	Replacement	1-DB-S-416	"U3" Main Steam Snubber - REPLACE	No	10/15/2015	15-222; C0258948
1	Replacement	SS-D-4	"U3" Main Steam Snubber - REPLACE	No	10/15/2015	15-225; C0258981
1	Replacement	SS-A-4	"U3" Main Steam Snubber - REPLACE	No	10/15/2015	15-226; C0258982
2	Repair	1-DB-S-414	"U3" Main Steam Snubber - REPLACE	No	10/13/2015	15-227; C0258955
2	Repair	1-DB-S-415	"U3" Main Steam Snubber - REPLACE	No	10/14/2015	15-228; C0258962
1	Repair	SS-A-6	"U3" Main Steam Snubber - REPLACE	No	10/12/2015	15-229; C0258983
1	Repair	SS-A-5	"U3" Main Steam Snubber - REPLACE	No	10/5/2015	15-230; C0258992



TABLE 2

01/15/2016 Page 4 of 4

**ABSTRACT OF ASME REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 24, 2013 TO OCTOBER 22, 2015  
( END OF P3R20 REFUEL OUTAGE )**

**SYSTEM 65B: MECHANICAL SNUBBERS**

Code Class	Repair, Replacement, or Corrective Measure	Item Description (component I.D.)	Description Of Work Performed	Flaw or Relevant Condition Found	Date Complete	R&R Plan # and W/O #
				During Scheduled Section XI Exam Or Test		
2	Replacement,	10-GB-S-44	"U3" RHR Snubber - REPLACE	No	9/23/2015	15-067; C0255565
1	Replacement,	SS-6-A	"U3" Recirc Snubber - REPLACE	No	9/25/2015	15-068; C0255566
2	Replacement,	10-GB-S-63	"U3" RHR Snubber - REPLACE	No	9/21/2015	15-070; C0255568
2	Replacement,	14-GB-S-33	"U3" Core Spray Snubber - REPLACE	No	9/23/2015	15-071; C0255569
2	Replacement,	14-MO-H-57	"U3" Core Spray Snubber - REPLACE	No	9/23/2015	15-072; C0255570
1	Replacement,	H-3LS-142-1	"U3" CRD Supply Bundle Snubber - REPLACE	No	10/6/2015	15-073; C0255571
1	Replacement,	H-3LS-142-8	"U3" CRD Supply Bundle Snubber - REPLACE	No	10/6/2015	15-074; C0255572
2	Replacement,	23-DDN-S-300B	"U3" HPCI Snubber - REPLACE	No	9/23/2015	15-079; C0255577
1	Replacement,	H-3LS-142-2	"U3" CRD Supply Bundle Snubber - REPLACE	No	10/6/2015	15-080; C0255578
1	Replacement,	H-3LS-142-4	"U3" CRD Supply Bundle Snubber - REPLACE	No	10/6/2015	15-081; C0255579
1	Replacement,	H-3LS-142-5	"U3" CRD Supply Bundle Snubber - REPLACE	No	10/6/2015	15-082; C0255580