

Exelon Nuclear  
Peach Bottom Atomic Power Station  
1848 Lay Rd.  
Delta, PA 17314

www.exeloncorp.com

10CFR 50.55a

January 11, 2012

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

Peach Bottom Atomic Power Station (PBAPS) Unit 3  
Renewed Facility Operating License No. DPR-56  
NRC Docket Nos. 50-278

Subject: Submittal of the Inservice Inspection (ISI) Owner's Activity Report for the  
18<sup>th</sup> Refueling Outage for Unit 3

Attached is the ISI Owner's Activity Report covering ISI activities associated with the first 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 Inservice Summary Report Preparation and Submission, section XI, Division 1).

If you have any questions or require additional information, feel free to contact Jeremy Searer at 717-456-4771.

Sincerely,



Garey L. Stathes  
Plant Manager  
Peach Bottom Atomic Power Station

Attachment

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

CCN: 12-04

A047  
NRC

**PEACH BOTTOM ATOMIC POWER STATION, UNIT No. 3 – P3R18 OAR REPORT**

**FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number P3R18

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

Unit No. 3 Commercial Service Date December 23, 1974 Refueling Outage No. 18

Current Inspection Interval ISI = Fourth / CISI = Second

Current Inspection Period ISI = First / CISI = First

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

Date and revision of inspection plan 05/17/2010 Rev 1

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

Code Cases used: N-460, N-513-2, N-532-4, N-578-1 & N-700

**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 P3R18 conform to the requirements of Section XI.

Signed  Jeremy Searer, ISI Program Owner Date 1/06/2012  
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 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.

 Commissions NB7592 PA2163 A, N, I  
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/6/2012

**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 13, 2009 TO OCTOBER 14, 2011  
(END OF P3R18 REFUEL OUTAGE)**

<b>Examination Category</b>	<b>Item Number</b>	<b>Item Description</b>	<b>Evaluation Description</b>
F-A	F1.20	10GB-H57 Spring Hanger	Relevant Condition – The tie rod for one of the two spring cans was found disconnected. This was evaluated by engineering and corrected in the field. IWF-2430 additional examinations were performed. (Ref IR - 1265095)
F-A	F1.20	23DBN-H60 Spring Hanger	Relevant Condition - Spring hanger load set was outside the 10% design configuration. Condition was corrected, IWF-2430 additional examinations were performed. (Ref IR 1264139)
N/A	N/A	RV-3-10-072D RHR Pump 3DP035 Suction Relief Valve	Relevant Condition - 0.5 DPM pressure boundary leak on 1" riser to relief valve. (Ref IR -1062236, 1264398, 1264909, & OE34886)

**ABSTRACT OF ASME REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 13, 2009 TO OCTOBER 14, 2011  
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**SYSTEM 01: MAIN STEAM AND TURBINE SYSTEM**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 1	Replacement	RV-3-02-071D	Installed a rebuilt safety relief valve	9/22/2011	09-031, R1013143
Class 1	Replacement	RV-3-02-071B	Installed a rebuilt safety relief valve	11/17/2010	10-132, C0232534
Class 1	Replacement	RV-3-02-071F	Installed a rebuilt safety relief valve	9/21/2011	11-051, R1084227
Class 1	Replacement	RV-3-02-071L	Installed a rebuilt safety relief valve	9/21/2011	11-052, R1084237
Class 1	Replacement	RV-3-02-071J	Installed a rebuilt safety relief valve	9/21/2011	11-053, R1085002
Class 1	Replacement	RV-3-02-070B	Installed a rebuilt safety relief valve	9/23/2011	11-054, R1147708
Class 1	Replacement	RV-3-02-071A	Installed a rebuilt safety relief valve	9/21/2011	11-075, R1147688
Class 1	Repair	Target Rock RV's	Machining of safety valves at Target Rock Facility	3/15/2011	11-098, N/A
Class 1	Repair	Target Rock RV's	NWS Technologies weld repair of safety relief valves	3/15/2011	11-101, N/A
Class 1	Repair	Target Rock RV's	NWS Technologies install thermowell hole on SRV	7/12/2011	11-111, N/A

**SYSTEM 01A: MAIN STEAM SYSTEM**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 1	Replacement	Main Steam Lines	EPU Project - Install strain gages on main steam lines	9/25/2011	11-103, C0238245
N/A	Replacement	GB1	Replaced missing bolts/washers on rigid restraint	10/3/2011	11-133, C0240159

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**SYSTEM 03: CONTROL ROD DRIVE**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 1	Replacement	CRD's 02-43, 06-27, 10-35, 14-31, 14-55, 18-15, 18-43, 26-03, 26-47, 26-51, 30-31, 30-59, 34-03, 42-43, 46-07, 46-27, 50-51, 54-27, 58-31	Exchanged CRD's with rebuilt CRD's	10/7/2011	11-019, R1176794

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

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 1	Replacement	PB-3-04-30S001	Replaced Reactor Head Washer #11	10/7/2011	11-027, R1153271

**SYSTEM 10: RESIDUAL HEAT REMOVAL**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 2	Replacement	PB-3-10-3CE024	Installed new RHR Hx. 3CE024 Head Bolting	11/12/2009	07-095, R0974636
Class 2	Replacement	RV-3-10-181D	Installed new RHR Hx. 3DE024 Shell Side Relief Valve	10/27/2009	08-152, R0949195
Class 2	Replacement	RV-3-10-181A	Installed new RHR Hx. 3AE024 Shell Side Relief Valve	1/25/2010	09-120, R0958305
Class 2	Replacement	PB-3-10-3DE024	Installed new RHR Hx. 3DE024 Upper Head Bolting	2/1/2011	10-184, R0974622

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OCTOBER 13, 2009 TO OCTOBER 14, 2011  
(END OF P3R18 REFUEL OUTAGE)**

**SYSTEM 10: RESIDUAL HEAT REMOVAL (CONTINUED)**

Class 2	Replacement	U3 RHR Decon Ports	Installed U3 RHR decon ports per ECR PB10-00497	6/29/2011	10-206, C0236147
Class 2	Replacement	HV-3-10-520	Installed new valve bonnet studs and nuts	7/21/2011	11-105, C0235345
Class 2	Replacement	PB-3-10-3AE024	Installed new RHR Hx. 3AE024 Floating Head	9/19/2011	10-195, C0233692
Class 1	Replacement	AO-3-10-046A	Replaced two bonnet studs and nuts	9/18/2011	11-024, C0236669
Class 2	Replacement	MO-3-10-026B	Installed new valve	10/8/2011	11-073, C0236813
Class 2	Replacement	3C RHR STRAINER	Replaced one stud and two nuts on 3C RHR Strainer	10/2/2011	11-116, R1154655
Class 2	Replacement	RV-3-10-072D	Installed new RHR Pump 3DP035 Suction Relief Valve	10/2/2011	11-122, R1191752
Class 2	Replacement	10-GB-H57	Installed new spring can	9/25/2011	11-128, C0236061

**SYSTEM 11: STANDBY LIQUID CONTROL SYSTEM**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 2	Replacement	RV-3-11-39B	Installed new relief valve	9/19/2011	08-103, R1087599

**SYSTEM 13: REACTOR CORE ISOLATION COOLING SYSTEM**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 1	Replacement	AO-3-13-022	Installed one new bonnet stud	9/24/2011	11-016, R0948855
Class 2	Replacement	HV-3-13C-31202	Installed new valve bonnet	9/17/2011	11-078, C0237070

**ABSTRACT OF ASME REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 13, 2009 TO OCTOBER 14, 2011  
(END OF P3R18 REFUEL OUTAGE)**

**SYSTEM 14: CORE SPRAY SYSTEM**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 2	Replacement	RV-3-14-020B	Installed new relief valve	5/17/2010	09-044, R0935533
Class 2	Replacement	RV-3-14-020A	Installed new relief valve	1/5/2010	09-115, R0950402

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

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 2	Replacement	VRV-3-23C-5998A	Installed new vacuum relief valve.	12/13/2010	10-117, C0232546
Class 2	Replacement	CHK-3-23C-130	Installed vent valves on each side of CHK-3-23C-130	12/17/2010	10-125, C0233235

**SYSTEM 27G: TORUS WATER TRANSFER**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 2	Replacement	Torus Penet. N-213A	Installed new torus penetration flange studs	10/1/2011	11-079, C0237031

**ABSTRACT OF ASME REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 13, 2009 TO OCTOBER 14, 2011  
(END OF P3R18 REFUEL OUTAGE)**

**SYSTEM 32: HIGH PRESSURE SERVICE WATER SYSTEM**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 3	Replacement	32GB-H26,H27,S59	Installed Shims in supports 32GB-H26, H27, and S59	6/4/2010	09-082, C0228364
Class 3	Replacement	PB-3-32-3CP042	New HPSW pump and 4 studs/8 nuts on discharge flange	11/11/2010	09-103, C0221180
Class 3	Replacement	RV-3-32-180B	Installed new RHR Hx. 3BE024 Tube Side Relief Valve	1/31/2011	09-119, R0948183
Class 3	Replacement	CHK-3-32-502A	Replaced HPSW 3AP042 Disch Check Valve drain pipe	2/8/2010	09-124, C0231233
Class 3	Replacement	32GB-S67, 32GB-S49A	Install new supports during pump replacement	6/28/2010	10-124, C0233256
Class 3	Replacement	HV-3-32-501A	Replaced HPSW 3AP042 Disch Block Valve drain pipe	2/25/2011	10-198, C0233677
Class 3	Replacement	PB-3-32-3CP042	New HPSW pump	12/30/2010	10-202, C0235988

**SYSTEM 65A: HYDRAULIC SNUBBERS**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class 3	Replacement	1-GG-S-21	Installed new hydraulic snubber	9/22/2011	11-055, C0236497
Class 3	Replacement	1-GG-S-20	Installed new hydraulic snubber	9/24/2011	11-056, C0236498
Class 3	Replacement	1-GG-S-17	Installed new hydraulic snubber	9/15/2011	11-057, C0236500
Class 1	Replacement	12-DCN-S-7	Installed new hydraulic snubber	9/19/2011	11-058, C0236501
Class 3	Replacement	1-GG-S-52	Installed new hydraulic snubber	9/16/2011	11-059, C0236502
Class 3	Replacement	1-GG-S-29	Installed new hydraulic snubber	9/15/2011	11-060, C0236503
Class 1	Replacement	6-DDNL-S-7	Installed new hydraulic snubber	9/17/2011	11-061, C0236504
Class 2	Replacement	10-GB-S-55	Installed new hydraulic snubber	9/24/2011	11-062, C0236505
Class 1	Replacement	SS-C-5	Installed new hydraulic snubber	9/23/2011	11-063, C0236506
Class 1	Replacement	SS-3-B	Installed new hydraulic snubber	9/19/2011	11-064, C0236507
Class 2	Replacement	23-DDN-S-29	Installed new hydraulic snubber	9/21/2011	11-065, C0236508



TABLE 2

**ABSTRACT OF ASME REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE  
FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3  
OCTOBER 13, 2009 TO OCTOBER 14, 2011  
(END OF P3R18 REFUEL OUTAGE)**

**SYSTEM 65B: MECHANICAL SNUBBERS**

<u>Code Class</u>	<u>Repair, or Replacement</u>	<u>Item Description (component I.D.)</u>	<u>Description Of Work Performed</u>	<u>Date Complete</u>	<u>R&amp;R Plan # and W/O #</u>
Class M	Replacement	9-HB-H-53	Installed new mechanical snubber	9/22/2011	11-066, C0236509
Class 1	Replacement	H-3LS-142-3	Installed new mechanical snubber	9/19/2011	11-067, C0236510
Class 3	Replacement	1-GG-S-101-B	Installed new mechanical snubber	9/16/2011	11-068, C0236511
Class 2	Replacement	10-GB-S-67	Installed new mechanical snubber	9/24/2011	11-069, C0236512
Class 2	Replacement	14-GB-S-34	Installed new mechanical snubber	9/24/2011	11-070, C0236513
Class 3	Replacement	1-GG-S-103-B	Installed new mechanical snubber	9/20/2011	11-080, C0237211
Class 3	Replacement	1-GG-S-102-B	Installed new mechanical snubber	9/20/2011	11-081, C0237213
Class 3	Replacement	1-GG-S-110-B	Installed new mechanical snubber	9/20/2011	11-082, C0237214
Class 3	Replacement	1-GG-S-207-A	Installed new mechanical snubber	9/16/2011	11-083, C0237215
Class 3	Replacement	1-GG-S-106-A	Installed new mechanical snubber	9/15/2011	11-084, C0237216
Class 3	Replacement	1-GG-S-112-B	Installed new mechanical snubber	9/21/2011	11-085, C0237217
Class 1	Replacement	12-DCN-S-9	Installed new mechanical snubber	9/20/2011	11-086, C0237218
Class 3	Replacement	1-GG-S-102-A	Installed new mechanical snubber	9/20/2011	11-088, C0237221
Class 2	Replacement	23-HB-S-3-A	Installed new mechanical snubber	9/21/2011	11-089, C0237223
Class 3	Replacement	1-GG-S-203-B	Installed new mechanical snubber	9/16/2011	11-091, C0237224
Class 2	Replacement	10-GB-S-65	Installed new mechanical snubber	9/24/2011	11-092, C0237222
Class 3	Replacement	1-GG-S-209-B	Installed new mechanical snubber	9/24/2011	11-093, C0237225
Class 3	Replacement	1-GG-S-112-A	Installed new mechanical snubber	9/22/2011	11-094, C0237226
Class 3	Replacement	1-GG-S-105-B	Installed new mechanical snubber	9/21/2011	11-095, C0237227
Class 3	Replacement	1-GG-S-208-A	Installed new mechanical snubber	9/15/2011	11-096, C0237228
Class 3	Replacement	1-GG-S-206-A	Installed new mechanical snubber	9/22/2011	11-097, C0237229
Class 3	Replacement	1-GG-S-105-A	Installed new mechanical snubber	9/17/2011	11-114, C0239041
Class 2	Replacement	14-MO-S-42B	Installed new mechanical snubber	9/28/2011	11-129, C0240078
Class 2	Replacement	14-MO-S-42A	Installed new mechanical snubber	9/28/2011	11-130, C0240080
Class 2	Replacement	10-HB-S-8	Installed new mechanical snubber	9/28/2011	11-131, C0240081
Class 2	Replacement	10-GB-S-50	Installed new mechanical snubber	9/28/2011	11-132, C0240082