



PECO NUCLEAR

A Unit of PECO Energy

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10CFR50.71(e)(4)
10CFR50.54(a)(3)

April 26, 2000

Docket Nos. 50-277
50-278

License Nos. DPR-44
DPR-56

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

SUBJECT: Peach Bottom Atomic Power Station, Units 2 and 3
Submittal of Revision 17 of the Updated Final Safety Analysis Report and Revision 12 of
the Fire Protection Program

Dear Sir:

In accordance with 10CFR50.71(e)(4) and 10CFR50.4(b)(6), this letter submits one original and ten copies of Revision 17 of the Updated Final Safety Analysis Report (UFSAR) and Revision 12 of the Fire Protection Program (FPP) for Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3. The enclosed copies are being provided to the NRC with a page revision listing that identifies the latest revision date of all current pages in accordance with 10CFR50.71(e)(1). We have also provided page replacement instructions for incorporating Revision 17 into the UFSAR and Revision 12 into the FPP. As required by 10CFR50.71(e)(5), each replacement page contains a bold vertical line in the margin adjacent to each area changed along with the date of the change. Revision 12 of the FPP and Revision 17 of the UFSAR reflect changes made up to a maximum of six months prior to this submittal in accordance with the requirements of 10CFR50.71(e)(4). As a result, the UFSAR Revision 17 and FPP Revision 12 reflect changes made to PBAPS, Units 2 and 3, under the provision of 10CFR50.59 at least up to December 31, 1999.

The enclosed UFSAR Revision 17 also contains a revision to the Quality Assurance Program Description (QAPD) which is being submitted in accordance with 10CFR50.54(a)(3). The revised QAPD (i.e., Appendix D of the UFSAR) reflects editorial, organizational and functional changes. Attachment 1 provides a listing of those changes which have been made since the previous submittal in accordance with 10CFR50.54(a)(3)(ii). Based on the information provided in Attachment 1, we have concluded that the QAPD changes included in Revision 17 of the UFSAR, Appendix D do not reduce commitments in the QAPD previously accepted by the NRC.

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As required by 10CFR50.71(e)(2)(i), I certify that to the best of my knowledge, Revision 12 of the FPP and Revision 17 of the UFSAR accurately reflect information and analyses submitted to the NRC, or prepared pursuant to NRC requirements as described above. In addition, as required by 10CFR50.71(e)(2)(ii), Attachment 2 to this letter identifies changes made under the provision of 10CFR50.59, and included in Revision 12 of the FPP or Revision 17 of the UFSAR, but not previously submitted to the NRC.

If you have any questions or require further information, please contact us.

Very truly yours,

A handwritten signature in cursive script that reads "James W. Lengenbach". The signature is written in black ink and is positioned below the closing "Very truly yours,".

Enclosure
Attachments

cc: H. J. Miller, Administrator, Region I, USNRC
A. C. McMurtry, USNRC Senior Resident Inspector, PBAPS

ATTACHMENT 1

Page 1 of 4

PECO NUCLEAR
Quality Assurance Program Description Changes
PBAPS UFSAR Appendix D, Revision 17

<u>Item No.</u>	<u>Page/ Paragraph No.</u>	<u>Description/Type of Change</u>	<u>Change Classification</u>
1.	17.2.1.2.3.e	Added the title of the Performance Enhancement Program to identify the acronym of PEP.	Editorial
2.	17.2.1.2.3.e	Deleted the reference to the different levels of PEP issues since all levels are included.	Editorial
3.	17.2.1.2.3.e	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
4.	17.2.1.2.3.g	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
5.	17.2.1.2.3.p	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
6.	17.2.1.2.3.1.d	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
7.	17.2.1.2.3.1.d	Deleted reference to Verification activities since that responsibility resides in the Quality Verification Division which no longer falls under the Site Quality Division.	Organizational
8.	17.2.1.2.3.1.1.b	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
9.	17.2.1.2.3.1.1.d	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional

ATTACHMENT 1

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**PECO NUCLEAR
Quality Assurance Program Description Changes
PBAPS UFSAR Appendix D, Revision 17**

<u>Item No.</u>	<u>Page/ Paragraph No.</u>	<u>Description/Type of Change</u>	<u>Change Classification</u>
10.	17.2.1.2.3.1.1.h	Deleted entire step since Surveillance related activities and Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
11.	17.2.1.2.3.1.1.i	Deleted entire step since Surveillance related activities and Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
12.	17.2.1.2.3.1.2	Relocated the entire Section since the group reporting relationship has been changed to reporting to the Director versus the Site Manager.	Organizational
13.	17.2.1.2.3.1.2	Added note to indicate that this section was relocated to Section 17.2.1.2.3.4.	Editorial
14.	17.2.1.2.3.4	Changed the reporting relationship of Quality Verification from the Site Manager to the Director of Nuclear Quality Assurance.	Organizational
15.	17.2.1.2.3.4.d	Updated the Quality Verification Group description from Section to Division to reflect their new reporting relationship.	Organizational
16.	17.2.1.2.3.3	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
17.	17.2.1.2.3.3.g	Deleted entire step since Trend Analysis and Reporting are included as part of the new Continuous Assessment Process and are performed by the Site Quality Divisions.	Functional
18.	17.2.1.2.3.3.h	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional

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**PECO NUCLEAR
Quality Assurance Program Description Changes
PBAPS UFSAR Appendix D, Revision 17**

<u>Item No.</u>	<u>Page/ Paragraph No.</u>	<u>Description/Type of Change</u>	<u>Change Classification</u>
19.	17.2.2.1.6	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
20.	17.2.2.3.1	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
21.	17.2.2.6	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
22.	17.2.2.8	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
23.	17.2.5.3	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
24.	17.2.10.5	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
25.	17.2.14.6	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
26.	17.2.15.2.2	Deleted reference to Surveillances and added reference to Assessment Activities since Surveillance Reviews have been deleted in the new Continuous Assessment Process.	Functional
27.	17.2.16.5	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional

ATTACHMENT 1

PECO NUCLEAR
Quality Assurance Program Description Changes
PBAPS UFSAR Appendix D, Revision 17

<u>Item No.</u>	<u>Page/ Paragraph No.</u>	<u>Description/Type of Change</u>	<u>Change Classification</u>
28.	17.2.16.7	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
29.	17.2.17.3.1.g	Deleted this step and relocated the requirement to step 17.2.17.3.3.	Functional
30.	17.2.17.3.3.n	Added this step to reflect that records of radioactive shipments are retained for the duration of the license.	Functional
31.	17.2.17.5.1	Added details concerning Quality Records, including Electronic Records and their authenticity and security measures.	Functional
32.	17.2.18.1.1.e	Changed the assessment periodicity for the Emergency Plan Assessment from 12 to 24 months.	Functional
33.	17.2.18.1.1.f	Changed the assessment periodicity for the Security Plan Assessment from 12 to 24 months.	Functional
34.	17.2.18.2	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
35.	17.2.18.3	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
36.	17.2.18.4	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional
37.	17.2.18.6	Deleted reference to Surveillances since Surveillance Reviews have been replaced by Assessment Activities in the new Continuous Assessment Process.	Functional

ATTACHMENT 2

10CFR50.71(e)(2)(ii) requires that revisions to the UFSAR include changes made under the provisions of 10CFR50.59, but not previously submitted to the NRC. Accordingly, the list below identifies these plant modifications and projects included in Revision 17 of the Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3, Updated Final Safety Analysis Report (UFSAR) or Revision 12 of the PBAPS Fire Protection Program (FPP) that were not previously submitted to the NRC. The list does not represent a complete list of UFSAR and FPP change packages incorporated.

<u>Modification Number</u>	<u>Unit Number</u>	<u>Description</u>
P00240	3	Network Vibration Monitoring System
P00539	3	Control Room Noise/Personnel Traffic Barriers
P00601	Common	Independent Spent Fuel Storage Installation Project (ISFSI)
P00678	2	Thermo-Lag Reduction Project
P00733	3	End-Of-Cycle Recirculation Pump Trip (EOC-RPT) Modification
P00746	2	Replace the Unit 2 Scram Air Header and Tubing to 116 Valve
P00813	2 & 3	Fire Safe Shutdown Analysis - Thermo-lag
ECR 98-01052, Rev. 02	2	Installation of Digital Phase Angle Meter
ECR 98-01096, Rev. 01	3	Removal of Unit 3 HPCI Control Room Vibration Indicator
ECR 98-01269, Rev. 00	3	Replace Malfunctioning #3 Gen. Transfer Trip Equipment
ECR 98-01671, Rev. 00	3	Install Permanent Test Tap on Unit 3 Isolation Valve
ECR 98-02864, Rev. 00	3	SRV Discharge 3/4" VRV Removal
ECR 99-00554, Rev. 00	3	Incorp Field As-Build Info—SRV Discharge 3/4" VRV Removal
ECR 99-01772, Rev. 01	3	Replace Core Flow Instrumentation on Unit 3

PBAPS
 UNITS 2 & 3
 UPDATED FINAL SAFETY ANALYSIS REPORT
 Revision 17 April, 2000

Page Replacement Instructions

REMOVE

INSERT

VOLUME 1

V1-7

V1-7

Figure 2.2.9

Figure 2.2.9

VOLUME 2

V2-1

V2-1

V2-3

V2-3

V2-5

V2-5

V2-7

V2-7

V2-9

V2-9

V2-11

V2-11

V2-13

V2-13

V2-15

V2-15

V2-17

V2-17

3.3-1

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3.3-7

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Table 4.3.1

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Figure 4.3.2A Sheet 1 of 4
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 Figure 4.3.2B Sheet 3 of 4
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REMOVE**INSERT****Volume 2** (continued)

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4.4-8a
4.4-9
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4.6-7
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4.4-1
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4.4-11
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Table 4.7.1

Table 4.7.1

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Figure 4.9.4B Sheet 2 of 2

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5.2-16a
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4.10-3
4.10-5
4.10-11
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5.2-11
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5.2-15
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5.2-16a
5.2-19

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Volume 2 (continued)

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 5.2-25
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 6.3-1
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 6.4-9

5.3-5
 6-i
 6.2-1
 6.3-1
 6.4-5
 6.4-9

Figure 6.4.2

Figure 6.4.2

REMOVE**INSERT****VOLUME 3**

V3-1
 V3-5
 V3-7
 V3-9
 V3-11
 V3-13
 V3-15

V3-1
 V3-5
 V3-7
 V3-9
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6.5-3

6.5-3
 6.5-3-A (NEW)

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Figure 7.3.11f
 Figure 7.3.11ff

Figure 7.3.11f
 Figure 7.3.11ff

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Table 7.4.2

Table 7.4.2

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REMOVE**INSERT****Volume 3 (continued)**

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7.6-3
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V4-9
V4-11
V4-13

V4-1
V4-5
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V4-9
V4-11
V4-13

7.9-1
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Figure 7.9.4F Sheet 2 of 2

Figure 7.9.4B Sheet 2 of 2
Figure 7.9.4F Sheet 2 of 2

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7.11-7
7.19-1
7.19-3
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7.10-11
7.11-5
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7.19-3
7.20-3
7.20-5

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Figure 8.2.2

Figure 8.2.2

REMOVE

INSERT

Volume 4 (continued)

8.4-3

8.4-3

8.4-3-A

(New)

8.4-7

8.4-7

Figure 8.4.2A

Figure 8.4.2A

Figure 8.4.2B

Figure 8.4.2B

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Figure 8.4.6A

Figure 8.4.6A

Figure 8.4.6B

Figure 8.4.6B

Figure 8.4.6C

Figure 8.4.6C

Figure 8.4.6D

Figure 8.4.6D

Figure 8.4.7A

Figure 8.4.7A

Figure 8.4.7B

Figure 8.4.7B

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Figure 8.5.1

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8.6-1

8.6-1

Figure 8.6.1A

Figure 8.6.1A

Figure 8.6.2

Figure 8.6.2

Figure 8.7.1A

Figure 8.7.1A

Figure 8.7.1B

Figure 8.7.1B

Figure 8.7.1C

Figure 8.7.1C

Figure 8.7.2A

Figure 8.7.2A

Figure 8.7.2B

Figure 8.7.2B

Figure 9.2.3

Figure 9.2.3

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Figure 10.6.1

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VOLUME 5

V5-1

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V5-5

V5-5

V5-7

V5-7

V5-9

V5-9

V5-11

V5-11

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V5-15

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REMOVE**INSERT****Volume 5** (continued)

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 Figure 11.8.2 Sheet 3 of 6
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 Figure 12.1.2

REMOVE**INSERT****Volume 5 (continued)**

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 12.3-1
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 12.4-1

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 12.3-1
 12.3-5
 12.3-11
 12.4-1

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13-i

13.2-1
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 Figure 13.2.3
 Figure 13.2.4

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 14.6-17
 14.6-41

14.5-5
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 14.6-17
 14.6-41

REMOVE

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A.1-1
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 A.4-3
 A.9-1
 A.9-3
 A.9-5
 A.10-7
 A.10-15
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 A.10-25
 A.10-31

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 A.3-5
 A.3-7
 A.3-9
 A.4-3
 A.9-1
 A.9-3
 A.9-5
 A.10-7
 A.10-15
 A.10-17
 A.10-25
 A.10-31

VOLUME 7

V7-1
 V7-3
 V7-7
 V7-9
 V7-13

V7-1
 V7-3
 V7-7
 V7-9
 V7-13

C.1-1
 C.2-3
 C.2-11

C.1-1
 C.2-3
 C.2-11

Table C.2.1

Table C.2.1

C.3-3
 C.3-5

C.3-3
 C.3-5

Figure C.3.3A (NEW)
 Figure C.3.12A (NEW)
 Figure C.3.12B (NEW)
 Figure C.3.12C (NEW)
 Figure C.3.12D (NEW)
 Figure C.3.12E (NEW)
 Figure C.3.12F (NEW)
 Figure C.3.12G (NEW)
 Figure C.3.12H (NEW)
 Figure C.3.12 I (NEW)

C.4-7

C.4-7

Table C.4.1
 Table C.4.4

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Table C.4.1
 Table C.4.4

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REMOVE**INSERT****Volume 7** (continued)

C.5-3
 C.5-9
 C.5-11
 C.5-13
 C.5-15

C.5-3
 C.5-9
 C.5-11
 C.5-13
 C.5-15

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 Table C.5.8 Page 15 of 24
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D.11-3
 D.11-5
 D.11-7
 D.11-9

D.11-3
 D.11-5
 D.11-7
 D.11-9
 D.11-9-A
 D.11-17
 D.11-19
 D.11-21
 D.11-27
 D.11-33
 D.11-39
 D.11-41
 D.11-43
 D.11-45
 D.11-47
 D.11-49
 D.11-51
 D.11-53
 D.11-61

D.11-17
 D.11-19
 D.11-21
 D.11-27
 D.11-33
 D.11-39
 D.11-41
 D.11-43
 D.11-45
 D.11-47
 D.11-49
 D.11-51
 D.11-53
 D.11-61

Figure 17.2.1
 Figure 17.2.2
 Figure 17.2.4

Figure 17.2.1
 Figure 17.2.2
 Figure 17.2.4

F.2-1
 F.3-1

F.2-1
 F.3-1

REMOVE

INSERT

VOLUME 8

V8-1
V8-3
V8-5

V8-1
V8-3
V8-5

Matrix (Oper. D) Sheet 1 of 2
 Sheet 1 of 2

Matrix (Oper. D) Sheet 1 of 2
 Sheet 1 of 2

G.5-13
G.5-15

G.5-13
G.5-15

Figure G.5.5
Figure G.5.6
Figure G.5.9

Figure G.5.5
Figure G.5.6
Figure G.5.9

H.2-5
I-1
J.4-5

H.2-5
I-1
J.4-5

VOLUME 9

V9-7

V9-7

M.3-21
M.3-23

M.3-21
M.3-23