



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
475 ALLENDALE RD, STE 102
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

February 28, 2024

David P. Rhoades
Senior Vice President
Constellation Energy Generation, LLC
President and Chief Nuclear Officer (CNO)
Constellation Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 (REPORTS 05000277/2023006 AND 05000278/2023006)

Dear David Rhoades:

The U.S Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Peach Bottom Atomic Power Station (Peach Bottom), Units 2 and 3, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2023 through December 31, 2023. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety. The baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

The NRC determined the performance at Peach Bottom, Units 2 and 3, during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility. Note that Peach Bottom, Unit 2 started the assessment period in Column 2 and returned to the Licensee Response Column on June 8, 2023 following a supplemental inspection documented in NRC Inspection Report 05000277/2023040 (ADAMS Accession No. ML23198A050).

The enclosed inspection plan lists the inspections scheduled through December 31, 2025. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Jonathan Greives at (610) 337-5337 with any questions you have regarding this letter.

Sincerely,

Blake D. Welling, Director
Division of Operating Reactor Safety

Docket Nos. 05000277 and 05000278
License Nos. DPR-44 and DPR-56

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 (REPORTS 05000277/2023006 AND 05000278/2023006) DATED FEBRUARY 28, 2024

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DOCUMENT NAME: <https://usnrc.sharepoint.com/teams/ROPAssessmentMeetings/Shared Documents/ROP-24 EOC Review/Branch 4/Peach Bottom/Peach Bottom ROP-24 Annual Assessment Letter.docx>

ADAMS ACCESSION NUMBER: ML24057A059

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OFFICE	RI/DORS	RI/DORS	RI/DORS		
NAME	SHaney	JGreives	BWellington		
DATE	2/26/2024	2/22/2024	2/26/2024		

OFFICIAL RECORD COPY

Site Inspection Activity Plan

Peach Bottom

01/01/2024 - 12/31/2025

Unit	Start	End	Activity	CAC	Title	Staff Count
Cyber Security - Peach Bottom						4
2,3	2/5/2024	2/9/2024	IP 71130.10	000741	Cybersecurity	
FY24 Peach Bottom Initial License Examination						5
2,3	3/24/2024	3/29/2024	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2,3	4/22/2024	4/26/2024	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
RP – 71124.03 Airborne, 71124.04 Dose Assessment						1
2,3	4/8/2024	4/12/2024	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	4/8/2024	4/12/2024	IP 71124.04	000728	Occupational Dose Assessment	
EP Exercise Inspection - Peach Bottom						5
2,3	4/15/2024	4/19/2024	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
2,3	4/15/2024	4/19/2024	IP 71114.07	000722	Exercise Evaluation - Hostile Action (HA) Event	
2,3	4/15/2024	4/19/2024	IP 71151	001397	Performance Indicator Verification	
Fire Protection - Peach Bottom						3
2,3	7/22/2024	7/26/2024	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
2,3	8/5/2024	8/9/2024	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
Access Control, Equipment Testing and Maintenance, Training, SPR						3
2,3	9/23/2024	9/27/2024	IP 71130.02	000734	Access Control	
2,3	9/23/2024	9/27/2024	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
2,3	9/23/2024	9/27/2024	IP 71130.07	000739	Security Training	
2,3	9/23/2024	9/27/2024	IP 71130.09	001656	Security Plan Changes	
2,3	9/23/2024	9/27/2024	IP 71151	001338	Performance Indicator Verification	
RP - 71124.01 Rad Haz and 71151 PI Verification						1
2	10/21/2024	10/25/2024	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2	10/21/2024	10/25/2024	IP 71151	000746	Performance Indicator Verification	
Inservice Inspection - Peach Bottom Unit 2						1
2	10/28/2024	11/1/2024	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
Material Control and Accounting - Peach Bottom						1
2,3	2/3/2025	2/7/2025	IP 71130.11	000742	Material Control and Accounting (MC&A)	
EP Program Inspection - Peach Bottom						2
2,3	2/24/2025	2/28/2025	IP 71114.02	000717	Alert and Notification System Testing	
2,3	2/24/2025	2/28/2025	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
2,3	2/24/2025	2/28/2025	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
2,3	2/24/2025	2/28/2025	IP 71114.05	000720	Maintenance of Emergency Preparedness	

Site Inspection Activity Plan

2,3	2/24/2025	2/28/2025	IP 71151	001397	Performance Indicator Verification	
PB Requal Inspection with P/F Results						1
2,3	3/24/2025	3/28/2025	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
2,3	3/24/2025	3/28/2025	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
RP - 71124.06 RETS						1
2,3	4/7/2025	4/11/2025	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
Commercial Grade Dedication - Peach Bottom						3
2,3	4/14/2025	4/18/2025	IP 71111.21N.03	001808	Commercial Grade Dedication	
2,3	4/28/2025	5/2/2025	IP 71111.21N.03	001808	Commercial Grade Dedication	
RP - 71124.05 Rad. Instruments						1
2,3	5/5/2025	5/9/2025	IP 71124.05	000729	Radiation Monitoring Instrumentation	
2025 Peach Bottom Initial Operator Licensing Exam						4
2,3	4/14/2025	4/18/2025	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2,3	5/19/2025	5/23/2025	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
Access Control, Protective Strategy, TSR, SPR, PIs - PB						4
2,3	5/19/2025	5/23/2025	IP 71130.02	000734	Access Control	
2,3	5/19/2025	5/23/2025	IP 71130.05	000737	Protective Strategy Evaluation	
2,3	5/19/2025	5/23/2025	IP 71130.09	001656	Security Plan Changes	
2,3	5/19/2025	5/23/2025	IP 71130.14	000743	Review of Power Reactor Target Sets	
2,3	5/19/2025	5/23/2025	IP 71151	001338	Performance Indicator Verification	
PI&R Biennial Team Inspection - Peach Bottom						4
2,3	9/8/2025	9/12/2025	IP 71152B	000747	Problem Identification and Resolution	
2,3	9/22/2025	9/26/2025	IP 71152B	000747	Problem Identification and Resolution	
RP -71124.08 Rad Waste and Part 37						1
2,3	9/15/2025	9/19/2025	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
Inservice Inspection - Peach Bottom Unit 3						1
3	10/27/2025	10/31/2025	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
RP - 71124.01 Rad. Hazards						1
3	10/27/2025	10/31/2025	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	