



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

February 29, 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: PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 –
NOTIFICATION OF CONDUCT OF A FIRE PROTECTION TEAM INSPECTION**

Dear David Rhoades:

The purpose of this letter is to notify you that U.S. Nuclear Regulatory Commission (NRC) staff will conduct a fire protection team inspection at your Peach Bottom Atomic Power Station, Units 2 and 3. The inspection will be conducted in accordance with Inspection Procedure 71111 Attachment 21N.05, "Fire Protection Team Inspection (FPTI)," dated January 1, 2020. The inspection team will be led by Leonard Cline, a Senior Reactor Inspector from the NRC Region I Office.

The inspection will verify that plant structures, systems, and components, and/or administrative controls credited in the approved fire protection program can perform their licensing basis function.

The schedule for the inspection is as follows:

Information Gathering Visit: May 28 – 30, 2024
Onsite Inspection: Weeks of July 21, 2024 and August 4, 2024

The purpose of the information gathering visit is to obtain information and documentation needed to support the inspection and to become familiar with the station's fire protection program, fire protection features, post-fire safe shutdown capabilities, and plant layout. During the information gathering visit, the team leader will select the specific samples to be reviewed during the onsite inspection weeks.

The enclosure lists the types of documents that will be needed prior to the information gathering visit. Please provide the referenced information to the Region I office by May 20, 2024. Following sample selection, additional documents will be requested specific to those samples. Your cooperation and support during this inspection will be appreciated.

If you have questions concerning this inspection, or the inspection team's information request or logistical needs, please contact Leonard Cline, Team Leader at (610) 337-5373, or via email at leonard.cline@nrc.gov.

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, under Control Number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Glenn T. Dentel, Chief
Engineering Branch 2
Division of Operating Reactor Safety

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

Enclosure:
Fire Protection Team Inspection
Supporting Documentation

cc: Distribution via LISTSERV®

SUBJECT: PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 –
NOTIFICATION OF CONDUCT OF A FIRE PROTECTION TEAM INSPECTION,
DATED FEBRUARY 29, 2024

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DOCUMENT NAME: https://usnrc.sharepoint.com/teams/EngineeringBranch2/Shared Documents/_Fire Protection/Fire Protection 90Day Letters/Peach Bottom/PBAPS_2024_FPQI non-NFPA 805 90-Day RFI Letter.docx

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Fire Protection Team Inspection Supporting Documentation

If you have any questions regarding this information request, please contact Leonard Cline, Team Leader at (610) 337-5373, or via email at leonard.cline@nrc.gov.

Electronic format is preferred. If electronic media is made available via an internet-based document management system, then document access must allow inspectors to download, save, and print the documents in the NRC's Regional office. Additionally, word-searchable documents are preferred, if available. Paper records (hard copy) are acceptable. At the end of the inspection, the documents in the team's possession will not be retained.

This document request is based on *typical documents* that a generic plant might have. As such, this generic document request is not meant to imply that any specific plant is required to have all of the listed documents. It is recognized that some documents listed below may not be available for your plant. In addition, the document titles listed below are based on typical industry document names; your plant specific document titles may vary.

Note that following sample selection, additional documents will be requested specific to those samples.

Please provide these documents to the inspection team leader in the Region I Office by May 20, 2024:

1. Post-Fire Safe Shutdown or Alternative Shutdown Analysis.
2. List of post-fire safe shutdown components (i.e., safe shutdown equipment list), if not already included in item (1) above.
3. Fire Hazards Analysis Report.
4. Fire Probabilistic Risk Assessment (PRA) Summary Document. If a Fire PRA is not available, please provide the Individual Plant Examination for External Events (Fire Chapter Only).
5. Fire Protection Program and/or Fire Protection Plan Document(s).
6. Fire Protection Program implementing procedures, if not already included in item (5). This could include procedures for programs such as transient combustible controls, hot work, changes to the fire protection program, etc.
7. Fire Protection Design Basis Document(s), if available.
8. List of all safety evaluations performed to support any plant modifications since July 2021. Include a short description and/or title of each evaluation.
9. List of all 10 CFR 50.59 applicability determinations and screens (date, number, title) performed since July 2021. Include a short description and/or title of each document.

Enclosure

10. List of all fire protection system impact screening reviews for **any** design changes, modifications, or temporary modifications completed since July 2021 (e.g., a Generic Letter 86-10 review, LS-AA-128 review, etc.). Include a short description and/or title of each review.
11. List of fire protection system, post-fire safe shutdown, or alternative shutdown design changes completed since July 2021. Include a short description and/or title of each change.
12. List of all Generic Letter 86-10 evaluations completed since July 2021. Include a short description and/or title of each evaluation.
13. List of the top 25 highest fire core damage frequency (CDF) scenarios, if available.
14. List of the top 25 highest fire large early release frequency (LERF) scenarios, if available.
15. From your most recent site-specific PRA, *including* external events and fires (if available):
 - a. Two risk rankings of components: one sorted by Risk Achievement Worth and the other sorted by Birnbaum Importance
 - b. A list of the top 100 cut sets
16. Risk ranking of operator actions and/or recovery actions from your site-specific PRA sorted by Risk Achievement Worth.
17. List of current fire protection system impairments, including description.
18. List of time critical operator actions and associated program procedure.
19. One-line diagram of the electrical distribution system.
20. Thermal-hydraulic calculation or analysis that determined the time requirements for time critical operator actions.
21. Copy of the Updated Final Safety Analysis Report.
22. Copy of the Technical Requirements Manual (sections associated with fire protection as a minimum).
23. Copy of the Quality Assurance Program Manual (including specific fire protection Quality Assurance Manual, if applicable).
24. Copy of the Corrective Action Program Procedure(s).
25. Copy of station procedures used for fire safe shutdown from inside and outside of the control room (e.g., alarm response procedure, procedure for shutdown from the remote shutdown panel, etc.).
26. List of open and closed condition reports for post-fire safe shutdown or alternative shutdown issues since July 2021 (e.g., issues affecting safe shutdown analysis, fire hazards analysis, safe shutdown operating procedures and/or training, timeline evaluations for operator actions, etc.). Include the issue report number and a brief description.

27. List of open and closed condition reports for fire protection system issues (e.g., fire pumps, detection, suppression, etc.) since July 2021. Include the issue report number and a brief description.

28. List of open and closed condition reports related to the fire brigade or fire drills since July 2021. Include the issue report number and a brief description.

29. Copies of the following condition reports:

04418605	04428402	04428649	04430609
04428400	04428589	04428822	

30. Copies of any self-assessments performed, and corrective action documents generated, in preparation for this fire protection team inspection.

31. Copies of aging management programs applicable to fire protection including, but not limited to, the following:

- Fire protection
- Fire water system
- Aboveground metallic tanks
- Buried and underground piping and tanks

32. Copies of procedures, work orders, preventive maintenance tasks, or other documents which implement the commitments made as part of the license extension related to fire protection.