



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

July 19, 2023

Brad Berryman
Senior Vice President and Chief Nuclear Officer
Susquehanna Nuclear, LLC
769 Salem Blvd., NUCSB3
Berwick, PA 18603

**SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 –
NOTIFICATION OF CONDUCT OF A FIRE PROTECTION TEAM INSPECTION**

Dear Brad Berryman:

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 Susquehanna Steam Electric Station, Units 1 and 2 starting in October 2023. The inspection will be conducted in accordance with Inspection Procedure 71111, Attachment 21N.05, "Fire Protection Team Inspection (FPTI)," dated June 12, 2019. The inspection team will be led by David Kern, 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: Week of October 10, 2023
- Onsite Inspection: Weeks of October 30, 2023 and November 13, 2023

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 October 2, 2023. 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 David Kern, Team Leader at (610) 337-6931, or via email at david.kern@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. 05000387 and 05000388
License Nos. NPF-14 and NFP-22

Enclosure:
Fire Protection Team Inspection
Supporting Documentation

cc: Distribution via ListServ

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NOTIFICATION OF CONDUCT OF A FIRE PROTECTION TEAM INSPECTION
DATED JULY 19, 2023

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DOCUMENT NAME: <https://usnrc.sharepoint.com/teams/EngineeringBranch2/Shared Documents/Fire Protection/Fire Protection 90Day Letters/Susq/SSES 2023 FPTI 90-Day Letter.docx>
ADAMS ACCESSION NUMBER: ML23200A101

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Fire Protection Team Inspection Supporting Documentation

If you have any questions regarding this information request, please contact David Kern at (610) 337-6931 or via email at david.kern@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. 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 October 2, 2023:

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 (Fire 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. National Fire Protection Association (NFPA) Code Compliance Report. List of NFPA Codes of Record, including edition number.
9. NRC Branch Technical Position APCS 9.5-1, Appendix A Compliance Report
10. List of all safety evaluations performed to support any plant modifications since June 1, 2020. Include a short description and/or title of each evaluation.

Enclosure

11. List of all 10 CFR 50.59 applicability determinations and screens (date, number, title) performed since June 1, 2020. Include a short description and/or title of each document.
12. List of all fire protection system impact screening reviews for any design changes, modifications, or temporary modifications completed since June 1, 2020 (e.g., a Generic Letter 86-10 review, LS-AA-128 review, etc.). Include a short description and/or title of each review.
13. List of fire protection system, post-fire safe shutdown, or alternative shutdown design changes completed since June 1, 2020. Include a short description and/or title of each change.
14. List of all Generic Letter 86-10 evaluations completed since June 1, 2020. Include a short description and/or title of each evaluation.
15. List of the top 25 highest fire core damage frequency scenarios, if available
16. 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 (RAW) and the other sorted by Birnbaum Importance
17. List of time critical and time sensitive operator actions and associated program procedure (both fleet and site-specific procedure).
18. Risk ranking of operator actions and/or recovery actions from your site-specific PRA sorted by RAW.
19. Thermal-hydraulic calculation or analysis that determined the time requirements for time critical and time sensitive operator actions.
20. List of current fire protection system impairments, including description
21. One-line diagram of the electrical distribution system
22. Copy of the Updated Final Safety Analysis Report
23. Copy of the Technical Requirements Manual
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., abnormal operating procedure, alarm response procedure, procedure for shutdown from the remote shutdown panel, etc.)
26. List of station procedures used to respond to fire (i.e., Emergency Operating Procedures, Abnormal Operating Procedures, and Annunciator Response Procedures). Include the procedure number, title, and current revision.
27. List of open and closed issue reports for post-fire safe shutdown or alternative shutdown issues since June 1, 2020 (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.

28. List of open and closed issue reports for fire protection system issues (e.g., fire pumps, detection, suppression, etc.) since June 1, 2020. Include the issue report number and a brief description.
29. List of open and closed issue reports related to the fire brigade or fire drills since June 1, 2020. Include the issue report number and a brief description.
30. Copies of the following AR/CR documents
2020-12955 2020-13012 2020-13081 2020-13149 2020-13241
2020-13247 2020-13030 2020-13032 2020-13103 2020-13229
2020-13230 2020-13254 2020-13270 2020-13271 2020-13419
2020-13439 2020-13570 2020-13756 2020-13771 2020-13779
2020-13782 2020-13783 2020-13851 2020-13896 2020-13899
2020-13912
31. Copies of any self-assessments performed, and corrective action documents generated in preparation for this fire protection team inspection.
32. Copies of aging management programs applicable to fire protection including, but not limited to the following. Please include any applicable sections of the UFSAR.
 - Fire protection
 - Fire suppression (water, CO2, Halon, etc.) system
 - Above ground metallic tanks associated with fire protection
 - Buried and underground piping and tanks associated with fire protection
33. 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.