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50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
AUTH.NAME AUTHOR AFFILIATION
KEISER,H.W. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
BUTLER,W.R. Project Directorate I-2

SUBJECT: Advises that Rev 3 to fire protection review rept forwarded under different cover for review & approval.

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JUN 30 1988

Director of Nuclear Reactor Regulation
Attn.: Dr. W. R. Butler, Project Director
Project Directorate I-2
Division of Reactor Projects
Mail Station P1-137
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
REVISION NO. 3 TO THE FIRE PROTECTION
REVIEW REPORT
PLA-3047 FILES R41-2,S013,P5-1,A17-15

Docket Nos. 50-387
and 50-388

Dear Dr. Butler:

Under separate cover we are sending Revision No. 3 to the Susquehanna SES Fire Protection Review Report for your review and approval. The Fire Protection Review Report shows our compliance to the requirement of Appendix A to BTP APCSB 9.5-1, 10CFR50 Appendix R Sections III.G, III.J, III.L (as applicable) and III.O, 10CFR50.48 and General Design Criterion 3 of Appendix A to 10CFR50. This revision is a complete rewrite of the Fire Protection Review Report.

This revision to the Fire Protection Review Report represents the culmination of the work done in response to the concerns and issues identified in the 1985 Appendix R NRC Compliance audit. It includes the information generated in response to the specific concerns identified by the NRC in the 1985 Audit, as well as, the work which PP&L felt was essential to improve our Appendix R Program. The reasons why we undertook this substantial upgrade effort and the specifics as to what we did and our required follow-up actions were discussed in a meeting in Region I on March 31, 1988.

The following modifications must be completed before Susquehanna SES is in compliance with the new fire hazards analysis as described in the revised Fire Protection Review Report:

| DCP No. | Description |
|---|---|
| 88-3016A | Install sprinklers and curbing on Elevation 806. |
| 88-3016B | Install sprinklers to protect ESW Valves intertie to Control Structure HVAC on Elevation 683. |

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| DCP No. | Description Cont'd. |
|---|---|
| 88-3016C | Relocate SGTS Equipment Room Temperature Switch on Elevation 806. |
| 88-3016D | Relocate Control Structure Chilled Water Instrument on Elevation 783. |
| 88-3016E | Install heat shield on Elevation 783. |
| 88-3016G | Install emergency lighting in common structures. |
| 88-3016H | Add second location for Control Structure HVAC Operation. |
| 88-3016I | Upgrade Diesel Generator Coolers/ESW. |
| 88-3016J | Modify wiring on local control switch for Diesel Generator A operation. |
| 88-3016K | Modify wiring on local control switch for Diesel Generator B operation. |
| 88-3016L | Modify wiring on local control switch for Diesel Generator C operation. |
| 88-3016M | Modify wiring on local control switch for Diesel Generator D operation. |
| 88-3016N | Modify wiring on local control switch for Diesel Generator E operation. |
| 88-3017A | Modify Emergency Switchgear Cooling fans in Unit 1. |
| 88-3017B | Install isolation for RHR F009 valve for a fire in the Unit 1 Remote Shutdown Panel. |
| 88-3017C | Install emergency lighting in Unit 1. |
| 88-3017D | Replace 125V DC Trip Units in Unit 1. |
| 88-3017E | Install protection for the Unit 1 RHR Hx Service Water valves. |
| 88-3017F | Install protection for the Unit 1 RWCU isolation valves for a fire in the Control Room. |
| 88-3017G | Isolate the Unit 1 HPCI and RCIC deluge valve cables from the Control Room. |
| 88-3017H | Reroute cables from the Unit 1 Remote Shutdown Panel. |

| DCP No. | Description Cont'd. |
|---|---|
| 88-3017I | Install isolation of RHRSW for a fire in Panel 1C201. |
| 88-3017K | Install Unit 1 RHR 125V DC source breaker. |
| 88-3017L | Replace Unit 1 480V breakers for better coordination. |
| 88-3017M | Install drip shields in Unit 1. |
| 88-3018A | Modify the Emergency Switchgear Cooling Fans for Unit 2. |
| 88-3018B | Install isolation for the RHR F009 valve for a fire in the Unit 2 Remote Shutdown Panel. |
| 88-3018C | Install emergency lighting in Unit 2. |
| 88-3018D | Replace the 125V DC Trip Units in Unit 2. |
| 88-3018E | Install protection for Unit 2 RHR Hx Service Water valves. |
| 88-3018F | Install protection for Unit 2 RWCU isolation valves for a fire in the Control Room. |
| 88-3018G | Isolate the Unit 2 HPCI and RCIC deluge valve cables from the Control Room. |
| 88-3018H | Install Unit 2 RHR 125V DC source breaker. |
| 88-3018I | Replace Unit 2 480V breakers for better coordination. |
| 88-3018J | Install drip shields in Unit 2. |
| 88-3019 | Install raceway wrapping in common structures. |
| 88-3020 | Install raceway wrapping in Unit 1. |
| 88-3021 | Install raceway wrapping in Unit 2. |
| 88-3022 | Install fireproofing on structural steel and support steel in common structures. |
| 88-3023 | Install fireproofing on structural steel and support steel in Unit 1. |
| 88-3024 | Install fireproofing on structural steel and support steel in Unit 2. |
| 87-3028B | Seal conduits in the Control Structure. |

It is anticipated that the above listing of required modifications will not change; however, if it does and the Fire Protection Review Report needs to be modified, we will inform you. All the required modifications will be completed by December 31, 1989.

In addition to the above listed modifications, certain manual actions must be proceduralized. This task will be completed by December 31, 1989.

We have evaluated the required modifications and procedural actions with respect to nuclear plant safety and concluded that they do not adversely affect safety or plant operability. We have also evaluated the required modifications and procedural actions for reportability and have issued LER #1-88-008. The appropriate compensatory measures have been established to assure safe operation.

Revision 3 of the Fire Protection Review Report will be used as our Licensing basis for plant modifications. This revision incorporates the closeout of the non-conforming items identified in the 1985 Audit to bring Susquehanna SES into full compliance with the appropriate section of 10CFR50 Appendix R as required by our License. We conclude that Revision 3 with the existing compensatory measures outlined below meets the intent of our License Condition. The existing compensatory actions (roving fire watches per PLA-2417 dated 2/22/85) will remain in effect until the modifications are complete in a Fire Area or Revision 3 of the Fire Protection Review Report is approved, whichever is later.

An amendment to revise our existing License Conditions will be submitted under separate cover by 8/15/88.

We will contact you in July to set up a meeting among PP&L, NRR and Region I to discuss the format and contents of the Fire Protection Review Report.

If you have any questions, please contact C.T. Coddington at (215) 770-7915. Pursuant to 10CFR170, the appropriate fee is enclosed.

Very truly yours,

H. W. Keiser

Enclosure

cc: NRC Document Control Desk (original)
Mr. M. C. Thadani, NRC Project Manager
Mr. F. I. Young, NRC Sr. Resident Inspector

BEFORE THE
UNITED STATES NUCLEAR REGULATORY COMMISSION

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In the Matter of :

PENNSYLVANIA POWER & LIGHT COMPANY : Docket Nos. 50-387
50-388

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REVISION NO. 3

FIRE PROTECTION REVIEW REPORT

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT NOS. 1 AND 2

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Licensee, Pennsylvania Power & Light Company, hereby files Revision No. 3 to its Fire Protection Review Report.

This revision contains a total rewrite of the Susquehanna SES Fire Protection Review Report.

PENNSYLVANIA POWER & LIGHT COMPANY
BY:

H. W. Keiser
Senior Vice President - Nuclear

Sworn to and subscribed before me
this 30th of June, 1988.

Helen J. Wolfer
Notary Public

HELEN J. WOLFER, Notary Public
Allentown, Lehigh County, Pennsylvania
My commission expires April 4, 1989