

3. This license amendment is effective upon startup for Cycle 4 operation.

FOR THE NUCLEAR REGULATORY COMMISSION

/s/

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 6, 1987

MB
PDI-2/LA
MO Brien
10/28/87

MCL
PDI-2/PM
MThadani:ca
10/28/87

QGC
11/12/87

WB
PDI-2/D
WButler
11/16/87

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3. This license amendment is effective upon startup for Cycle 4 operation.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in cursive script, reading "Walter R. Butler".

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 6, 1987

ATTACHMENT TO LICENSE AMENDMENT NO. 73

FACILITY OPERATING LICENSE NO. NPF-14

DOCKET NO. 50-387

Replace the following pages of the Appendix A Technical Specifications with enclosed pages. The revised page is identified by Amendment number and contains vertical lines indicating the areas of change.

REMOVE

3/4 8-25*
3/4 8-26

INSERT

3/4 8-25*
3/4 8-26

TABLE 3.8.4.1-1 (Continued)
PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>Circuit Breaker Designation</u>	<u>System/Equipment Powered</u>
23. 1B236052	RHR/HV-E11-1F009
24. 1B237073	RHR/HV-E11-1F022
25. 1B237082	HPCI/HV-E41-1F002
26. 1B253021	NSSS/HV-B21-1F011A
27. 1B253023	NSSS/HV-B21-1F011B
28. 1B253041	MSIV Hoist/TBB15
28. 1B263021	MSIV Hoist/TBB16
B. <u>Type HFB-M*</u>	
1. 1B236023	Cont. Inst. Gas/HV-12603
2. 1B246022	RCIC/HV-E51-1F007
3. 1B237072	NSSS/HV-B21-1F016
4. 1B236102	NSSS/HV-B21-1F001
5. 1B246112	NSSS/HV-B21-1F002
6. 1B246113	NSSS/HV-B21-1F005
7. 1B236053	RWCU/HV-G33-1F001
8. 1B253053	RWCU/HV-G33-1F102
9. 1B263043	RWCU/HV-G33-1F100
10. 1B263053	RWCU/HV-G33-1F106
11. 1B263081	RWCU/HV-G33-1F101
12. 1B246062	RBCCW/HV-11346
13. 1B246012	RBCCW/HV-11345
14. 1B253063	Drywell Sump/1P402A
15. 1B263071	Drywell Sump/1P402B

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>Circuit Breaker Designation</u>	<u>System/Equipment Powered</u>
16. 1B253043	Drywell Sump/1P403A
17. 1B263072	Drywell Sump/1P403B
C. <u>Type KB-TM</u>	
1. 1B216092 1B216083	Cont. H2 Recombiner/1E440A
2. 1B226103 1B226102	Cont. H2 Recombiner/1E440B
3. 1B236103 1B236122	Cont. H2 Recombiner/1E440C
4. 1B246033 1B246044	Cont. H2 Recombiner/1E440D
D. <u>Circuit Breakers Tripped By Overcurrent Relays</u>	
1. 1A20501 1A20502	Rx Recirc/1P401A
2. 1A20601 1A20602	Rx Recirc/1P401B

*Each circuit breaker designation represents two redundant circuit breakers.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 73 TO FACILITY OPERATING LICENSE NO. NPF-14

PENNSYLVANIA POWER & LIGHT COMPANY
ALLEGHENY ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-387

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1

1.0 INTRODUCTION

By letter dated June 19, 1987, Pennsylvania Power & Light Company (the licensee) submitted a request for amendment in the form of Technical Specification changes to Operating License No. NPF-14 for the Susquehanna Steam Electric Station Unit No. 1. The proposed changes consists of revisions to the Surveillance Requirements for the primary containment penetration conduction overcurrent devices to add four circuit breakers to Table 3.8.4.1-1. These circuit breakers were added as redundant breakers in the power feed circuits to the in-containment hydrogen recombiners in order to enhance the overcurrent protection for the containment penetrations for these circuits.

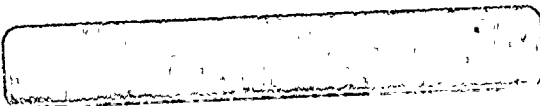
The proposed changes consist of revisions to Technical Specification 3/4.8.4.1 Table 3.8.4.1-1 1-Primary Containment Penetration Conductor Overcurrent Protective Devices to add four new redundant Type KB-TM circuit breakers under item C with designations as follows:

C. Type KB-TM

- | | | |
|----|-------------|--|
| 1. | 1 B216092* | Cont. H ₂ Recombiner/1E440A |
| | 1 B216083** | |
| 2. | 1 B226103* | Cont. H ₂ Recombiner/1E440B |
| | 1 B226102** | |
| 3. | 1 B236103* | Cont. H ₂ Recombiner/1E440C |
| | 1 B236122** | |
| 4. | 1 B246033* | Cont. H ₂ Recombiner/1E440D |
| | 1 B246044** | |

* Existing circuit breaker to the H₂ Recombiner

** Newly added redundant (in series) circuit breaker to the H₂ Recombiner



2.0 EVALUATION

Electrical penetrations of the primary containment are intended to provide electrical circuits through the containment without jeopardizing its leak tight barrier against the uncontrolled release of radioactivity to the environment. The electrical penetrations are designed to carry electrical overloads without adversely affecting the seal; however sustained substantial overloads or fault currents could damage the penetrations to the extent that they become leakage paths to the outside environment. All power electrical devices within the containment are provided with circuit breakers outside the containment to interrupt overload and fault currents; however the failure of a single breaker could damage a penetration and cause leakage. Accordingly in order to meet the single failure criteria of IEEE Standard 279-1971, the licensee has provided redundant (in series) thermal-magnetic circuit breakers for all in-containment power loads except for the four hydrogen recombiner heater loads. In the 1986 Revision 13 of FSAR Section 3.13, in compliance with the NRC Regulatory Guides, the licensee committed to compliance with Regulatory Guide 1.63 Electric Penetration Assemblies including commitment to provide redundant circuit breakers for the hydrogen recombiner electrical penetration circuits.

The new redundant circuit breakers were installed in Unit No. 2 during the 1986 outage and Technical Specification Section 3/4.8.4.1 Table 3.8.4.1-1 was revised (Amendment 24, April 1, 1986) accordingly to list these breakers and their surveillance requirements.

The licensee has now completed the installation of the redundant circuit breakers to the hydrogen recombiners in Unit No. 1 and is currently requesting approval to amend Technical Specification 3/4.8.4.1 Table 3.8.4.1-1 to include these breakers and their surveillance requirements.

The staff has reviewed the technical requirements and the physical installation of the redundant circuit breakers for both Units 1 and 2 and has also reviewed the supporting safety evaluation and Technical Specification amendment for this identical change for Unit No. 2. The staff finds that the installation of the redundant breakers provides a significant improvement in plant safety and that the proposed supporting Technical Specification change is acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this

amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement nor environmental assessment need be prepared in connection with the issuance of this amendment.

4.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (52 FR 26593) on July 15, 1987 and consulted with the State of Pennsylvania. No public comments were received, and the State of Pennsylvania did not have any comments.

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: Carl Woodard

Dated: November 6, 1987

