

June 15, 1989

Docket No.: 50-352

DISTRIBUTION w/enclosures:

Mr. George A. Hunger, Jr.
Director-Licensing
Philadelphia Electric Company
Correspondence Control Desk
P. O. Box 7520
Philadelphia, Pennsylvania 19101

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BBoger	TMeek(4)	ETrottier
WButler	EJordan	
RClark	DHagan	
RMartin	Wanda Jones	
MO'Brien	FRosa	

Dear Mr. Hunger:

SUBJECT: INCORPORATION OF UNIT 2 POWER SUPPLIES TO SUPPORT COMMON EQUIPMENT
IN UNIT 1 (TAC NO. 72909)

RE: LIMERICK GENERATING STATION, UNIT 1

The Commission has issued the enclosed Amendment No. 24 to Facility Operating License No. NPF-39 for the Limerick Generating Station, Unit 1. This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated April 10, 1989.

This amendment will revise the TSs to reflect the incorporation of Unit 2 power supplies needed to support common equipment used in operation of Unit 1.

A copy of our Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

/s/

E. H. Trottier, Project Manager
Project Directorate I-2
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosures:

- Amendment No. 24 to License No. NPF-39
- Safety Evaluation

cc w/enclosures:
See next page

[HUNGER LETTER2]

Previously concurred*

PDI-2/LA	PDI-2/PM	PDI-2*	OGC	PDI-2/D	SELB/C*
MO'Brien	RClark:mg	ETrottier		WButler	FRosa
/ /89	6/10/89	06/02/89	6/13/89	6/15/89	06/06/89

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/11

CPA/H.



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

June 15, 1989

Docket No.: 50-352

Mr. George A. Hunger, Jr.
Director-Licensing
Philadelphia Electric Company
Correspondence Control Desk
P. O. Box 7520
Philadelphia, Pennsylvania 19101

Dear Mr. Hunger:

SUBJECT: INCORPORATION OF UNIT 2 POWER SUPPLIES TO SUPPORT COMMON EQUIPMENT
IN UNIT 1 (TAC NO. 72909)

RE: LIMERICK GENERATING STATION, UNIT 1

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A copy of our Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

A handwritten signature in black ink, appearing to read "E. H. Trottier".

E. H. Trottier, Project Manager
Project Directorate I-2
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 24 to License No. NPF-39
2. Safety Evaluation

cc w/enclosures:
See next page

Mr. George A. Hunger, Jr.
Philadelphia Electric Company

Limerick Generating Station
Units 1 & 2

cc:

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Philadelphia Electric Company
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Philadelphia, Pennsylvania 19101



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

PHILADELPHIA ELECTRIC COMPANY

DOCKET NO. 50-352

LIMERICK GENERATING STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 24
License No. NPF-39

1. The Nuclear Regulatory Commission (the Commission) has found that
 - A. The application for amendment by Philadelphia Electric Company (the licensee) dated April 10, 1989, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-39 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 24, are hereby incorporated into this license. Philadelphia Electric Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

8906260099 890615
PDR ADOCK 05000352
P PDC

3. This license amendment is effective upon issuance of an operating license to Limerick Generating Station, Unit No. 2.

FOR THE NUCLEAR REGULATORY COMMISSION

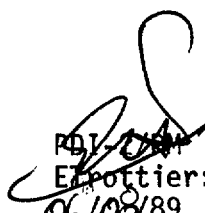
/s/

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


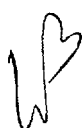
Attachment:
Changes to the Technical
Specifications

Date of Issuance: June 15, 1989

PDI-2/LA
MO'Brien
1 / 89

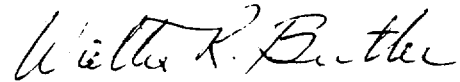

PDI-2/PM
EPottier:mr
06/08/89

PDI-2/PM
RCClark
06/08/89

OGC 
6/13/89
PDI-2/D
WButler 
6/15/89

3. This license amendment is effective upon issuance of an operating license to Limerick Generating Station, Unit No. 2.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: June 15, 1989

ATTACHMENT TO LICENSE AMENDMENT NO. 24

> FACILITY OPERATING LICENSE NO. NPF-39

DOCKET NO. 50-352

Replace the following pages of the Appendix A Technical Specifications with the attached pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

<u>Remove</u>	<u>Insert</u>
3/4 8-15	3/4 8-15
3/4 8-16	3/4 8-16
--	3/4 8-16a
--	--
3/4 8-17	3/4 8-17
3/4 8-18	3/4 8-18
--	3/4 8-18a
--	--
3/4 8-19	3/4 8-19
3/4 8-20	3/4 8-20

ELECTRICAL POWER SYSTEMS

3/4.8.3 ONSITE POWER DISTRIBUTION SYSTEMS

DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION

3.8.3.1 The following power distribution system divisions shall be energized:

a. A.C. power distribution:

1. Unit 1 Division 1, Consisting of:

- a) 4160-VAC Bus: D11 (10A115)
- b) 480-VAC Load Center: D114 (10B201)
- c) 480-VAC Motor Control Centers: D114-R-C1 (10B219)
D114-R-C (10B213)
D114-R-G (10B211)
D114-R-G1 (10B215)
D114-D-G (10B515)
- d) 120-VAC Distribution Panels: 10Y101
10Y206

2. Unit 2 Division 2, Consisting of:

- a) 4160-VAC Bus: D12 (10A116)
- b) 480-VAC Load Center: D124 (10B202)
- c) 480-VAC Motor Control Centers: D124-R-C1 (10B220)
D124-R-C (10B214)
D124-R-G (10B212)
D124-R-G1 (10B216)
D124-D-G (10B516)
- d) 120-VAC Distribution Panels: 10Y102
10Y207

3. Unit 1 Division 3, Consisting of:

- a) 4160-VAC Bus: D13 (10A117)
- b) 480-VAC Load Center: D134 (10B203)
- c) 480-VAC Motor Control Centers: D134-R-H1 (10B221)
D134-R-H (10B217)
D134-R-E (10B223)
D134-C-B (00B131)
D134-D-G (10B517)
- d) 120-VAC Distribution Panels: 10Y103
10Y163

4. Unit 1 Division 4, Consisting of:

- a) 4160-VAC Bus: D14 (10A118)
- b) 480-VAC Load Center: D144 (10B204)

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

- c) 480-VAC Motor Control Centers:
 - D144-R-G (10B222)
 - D144-R-H (10B218)
 - D144-R-E (10B224)
 - D144-C-B (00B132)
 - D144-D-G (10B518)
- d) 120-VAC Distribution Panels:
 - 10Y104
 - 10Y164
- 5. Unit 2 and Common Division 1, Consisting of:
 - a) 4160-VAC bus: D21 (20A115)
 - b) 480-VAC load center: D214 (20B201)
 - c) 480-VAC motor control centers:
 - D114-S-L (00B519)
 - D214-R-C (20B213)
 - D214-D-G (20B515)
 - d) 120-VAC distribution panels:
 - 01Y501
 - 20Y101
 - 20Y206
- 6. Unit 2 and Common Division 2, Consisting of:
 - a) 4160-VAC bus: D22 (20A116)
 - b) 480-VAC load center: D224 (20B202)
 - c) 480-VAC motor control centers:
 - D124-S-L (00B520)
 - D224-D-G (20B516)
 - d) 120-VAC distribution panels:
 - 02Y501
 - 20Y102
 - 20Y207
- 7. Unit 2 and Common Division 3, Consisting of:
 - a) 4160-VAC bus: D23 (20A117)
 - b) 480-VAC load center: D234 (20B203)
 - c) 480-VAC motor control centers:
 - D234-S-L (00B521)
 - D234-D-G (20B517)
 - d) 120-VAC distribution panels:
 - 03Y501
 - 20Y103
 - 20Y163
- 8. Unit 2 and Common Division 4, Consisting of:
 - a) 4160-VAC bus: D24 (20A118)
 - b) 480-VAC load center: D224 (20B204)
 - c) 480-VAC motor control centers:
 - D244-S-L (00B522)
 - D244-D-G (20B518)
 - d) 120-VAC distribution panels:
 - 04Y501
 - 20Y104
 - 20Y164

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

b. D.C. Power Distribution Panels

1. Unit 1 Division 1, Consisting of:

- a) 250-V DC Fuse Box: 1FA (1AD105)
- b) 250-V DC Motor Control Centers: 1DA (10D201)
- c) 125-V DC Distribution Panels: 1PPA1 (1AD102)
1PPA2 (1AD501)
1PPA3 (1AD162)

2. Unit 1 Division 2, Consisting of:

- a) 250-V DC Fuse Box: 1FB (1BD105)
- b) 250-V DC Motor Control Centers: 1DB-1 (10D202)
1DB-2 (10D203)
- c) 125-V DC Distribution Panels: 1PPB1 (1BD102)
1PPB2 (1BD501)
1PPB3 (1BD162)

3. Unit 1 Division 3, Consisting of:

- a) 125-V DC Fuse Box: 1FC (1CD105)
- b) 125-V DC Distribution Panels: 1PPC1 (1CD102)
1PPC2 (1CD501)
1PPC3 (1CD162)

4. Unit 1 Division 4, Consisting of:

- a) 125-V DC Fuse Box: 1FD (1DD105)
- b) 125-V DC Distribution Panels: 1PPD1 (1DD102)
1PPD2 (1DD501)
1PPD3 (1DD162)

5. Unit 2 and Common Division 1, Consisting of:

- a) 250-V DC Fuse Box: 2FA (2AD105)
- b) 125-V DC Distribution Panels: 2PPA1 (2AD102)
2PPA2 (2AD501)

6. Unit 2 and Common Division 2, Consisting of:

- a) 250-V DC Fuse Box: 2FB (2BD105)
- b) 125-V DC Distribution Panels: 2PPB1 (2BD102)
2PPB2 (2BD501)

7. Unit 2 and Common Division 3, Consisting of:

- a) 250-V DC Fuse Box: 2FC (2CD105)
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- a) 250-V DC Fuse Box: 2FD (2DD105)
- b) 125-V DC Distribution Panels: 2PPD1 (2DD102)
2PPD2 (2DD501)

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

- a. With one of the above required Unit 1 A.C. distribution system divisions not energized, reenergize the division within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With one of the above required Unit 1 D.C. distribution system divisions not energized, reenergize the division within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- c. With any of the above required Unit 2 and common AC and/or DC distribution system divisions not energized, declare the associated common equipment inoperable, and take the appropriate ACTION for that system.

SURVEILLANCE REQUIREMENTS

4.8.3.1 Each of the above required power distribution system divisions shall be determined energized at least once per 7 days by verifying correct breaker alignment and voltage on the busses/MCCs/panels.

ELECTRICAL POWER SYSTEMS

DISTRIBUTION - SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.8.3.2 As a minimum, 2 of the 4 divisions of the power distribution system shall be energized with:

a. A.C. power distribution:

1. Unit 1 Division 1, Consisting of:

- a) 4160-VAC Bus: D11 (10A115)
- b) 480-VAC Load Center: D114 (10B201)
- c) 480-VAC Motor Control Centers: D114-R-C1 (10B219)
D114-R-C (10B213)
D114-R-G (10B211)
D114-R-G1 (10B215)
D114-D-G (10B515)
- d) 120-VAC Distribution Panels: 10Y101
10Y206

2. Unit 1 Division 2, Consisting of:

- a) 4160-VAC Bus: D12 (10A116)
- b) 480-VAC Load Center: D124 (10B202)
- c) 480-VAC Motor Control Centers: D124-R-C1 (10B220)
D124-R-C (10B214)
D124-R-G (10B212)
D124-R-G1 (10B216)
D124-D-G (10B516)
- d) 120-VAC Distribution Panels: 10Y102
10Y207

3. Unit 1 Division 3, Consisting of:

- a) 4160-VAC Bus: D13 (10A117)
- b) 480-VAC Load Center: D134 (10B203)
- c) 480-VAC Motor Control Centers: D134-R-H1 (10B221)
D134-R-H (10B217)
D134-R-E (10B223)
D134-C-B (00B131)
D134-D-G (10B517)
- d) 120-VAC Distribution Panels: 10Y103
10Y163

4. Unit 1 Division 4, Consisting of:

- a) 4160-VAC Bus: D14 (10A118)
- b) 480-VAC Load Center: D144 (10B204)

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

- c) 480-VAC Motor Control Centers: D144-R-G (10B222)
D144-R-H (10B218)
D144-R-E (10B224)
D144-C-B (00B132)
D144-D-G (10B518)
- d) 120-VAC Distribution Panels: 10Y104
10Y164
- 5. Unit 2 and Common Division 1, Consisting of:
 - a) 4160-VAC Bus: D21 (20A115)
 - b) 480-VAC Load Center: D214 (20B201)
 - c) 480-VAC Motor Control Centers: D114-S-L (00B519)
D214-R-C (20B213)
D214-D-G (20B515)
 - d) 120-VAC Distribution Panels: 01Y501
20Y101
20Y206
- 6. Unit 2 and Common Division 2, Consisting of:
 - a. 4160-VAC Bus: D22 (20A116)
 - b. 480-VAC Load Center: D224 (20B202)
 - c. 480-VAC Motor Control Centers: D124-S-L (00B520)
D224-D-G (20B516)
 - d. 120-VAC Distribution Panels: 02Y501
20Y102
20Y207
- 7. Unit 2 and Common Division 3, Consisting of:
 - a. 4160-VAC Bus: D23 (20A117)
 - b. 480-VAC Load Center: D234 (20B203)
 - c. 480-VAC Motor Control Centers: D234-S-L (00B521)
D234-D-G (20B517)
 - d. 120-VAC Distribution Panels: 03Y501
20Y103
20Y163
- 8. Unit 2 and Common Division 4, Consisting of:
 - a. 4160-VAC Bus: D24 (20A118)
 - b. 480-VAC Load Center: D224 (20B204)
 - c. 480-VAC Motor Control Centers: D244-S-L (00B522)
D244-D-G (20B518)
 - d. 120-VAC Distribution Panels: 04Y501
20Y104
20Y164

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

- b. D.C. power distribution:
1. Unit 1 Division 1, Consisting of:
 - a) 250-V DC Fuse Box: 1FA (1AD105)
 - b) 250-V DC Motor Control Center: 1DA (10D201)
 - c) 125-V DC Distribution Panels: 1PPA1 (1AD102)
1PPA2 (1AD501)
1PPA3 (1AD162)
 2. Unit 1 Division 2, Consisting of:
 - a) 250-V DC Fuse Box: 1FB (1BD105)
 - b) 250-V DC Motor Control Centers: 1DB-1 (10D202)
1DB-2 (10D203)
 - c) 125-V DC Distribution Panels: 1PPB1 (1BD102)
1PPB2 (1BD501)
1PPB3 (1BD162)
 3. Unit 1 Division 3, Consisting of:
 - a) 125-V DC Fuse Box: 1FC (1CD105)
 - b) 125-V DC Distribution Panels: 1PPC1 (1CD102)
1PPC2 (1CD501)
1PPC3 (1CD162)
 4. Unit 1 Division 4, Consisting of:
 - a) 125-V DC Fuse Box: 1FD (1DD105)
 - b) 125-V DC Distribution Panels: 1PPD1 (1DD102)
1PPD2 (1DD501)
1PPD3 (1DD162)
 5. Unit 2 and Common Division 1, Consisting of:
 - a) 250-V DC Fuse Box: 2FA (2AD105)
 - b) 125-V DC Distribution Panels: 2PPA1 (2AD102)
2PPA2 (2AD501)
 6. Unit 2 and Common Division 2, Consisting of:
 - a) 250-V DC Fuse Box: 2FB (2BD105)
 - b) 125-V DC Distribution Panels: 2PPB1 (2BD102)
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 - a) 250-V DC Fuse Box: 2FD (2DD105)
 - b) 125-V DC Distribution Panels: 2PPD1 (2DD102)
2PPD2 (2DD501)

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *.

ACTION:

- a. With less than two divisions of the above required Unit 1 A.C. distribution systems energized, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel.
- b. With less than two divisions of the above required Unit 1 D.C. distribution systems energized, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel.
- c. With any of the above required Unit 2 and common AC and/or DC distribution system divisions not energized, declare the associated common equipment inoperable, and take the appropriate ACTION for that system.
- d. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

4.8.3.2 At least the above required power distribution system divisions shall be determined energized at least once per 7 days by verifying correct breaker alignment and voltage on the busses/MCCs/panels.

*When handling irradiated fuel in the secondary containment.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 24 TO FACILITY OPERATING LICENSE NO. NPF-39
PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION, UNIT 1
DOCKET NO. 50-352

1.0 INTRODUCTION

By letter dated April 10, 1989, Philadelphia Electric Company (the licensee) requested an amendment to Facility Operating License No. NPF-39 for the Limerick Generating Station, Unit 1. The proposed amendment would revise the Technical Specifications (TS) to reflect the incorporation of Unit 2 power supplies needed to support common equipment used in operation of Unit 1.

2.0 DISCUSSION

The proposed TS revision is needed to reflect modifications necessary to change from the current single-unit power supply configuration to a two-unit power supply configuration. These modifications implement the final electrical configuration of the original two-unit design that was reviewed and approved by the NRC in the Safety Evaluation Report (SER), NUREG 0991, dated August, 1983. The final design electrical configuration for Unit 2 power supplies feeding common system components is reflected in the proposed TS to ensure the proper interdependence between Unit 1 and Unit 2. This philosophy of interdependence currently is reflected in the Unit 2 TS, which are in the final stages of development. The proposed changes, therefore, would provide a consistent application to both Unit 1 and Unit 2.

Presently, common Class 1E spray pond Motor Control Centers (MCCs) 00B521ZC and 00B522ZD are fed from Unit 1 Class 1E 480V AC load centers 10B203ZC and 10B204ZD, respectively. These two safeguard MCCs supply power to spray pond safety related loads associated with Divisions 3 and 4 of the safety related electrical equipment. These spray pond loads are common to both units and are required for achieving and maintaining safe shutdown of both units. Loads include the valves associated with the Residual Heat Removal Service Water (RHRSW)/Emergency Service Water (ESW) spray pond subsystem. These valves automatically reposition when their associated ESW pumps ('C' and 'D') start. This TS revision would transfer these safeguard spray pond MCCs to Unit 2 Class 1E 480V AC load centers 20B203ZC and 20B204ZD. Similarly, the Class 1E 125V DC control power for these components will be transferred to the corresponding Unit 2 power

supply. The proposed TS change will make AC and DC power supplies to these components consistent with respect to the unit associated with their supply. That is, AC and DC power supplies to a component would come from the same electrical division in the same unit.

In ACTIONS 3.8.3.1.c and 3.8.3.2.c, the staff proposed a minor administrative revision, which the licensee accepted, to change "associated common system" to "associated common equipment" to more accurately define the requirement and to delete "fed from the deenergized source." These changes are administrative and editorial made for clarity. These revisions provide no change in technical content or intent of the specifications proposed by the licensee and no reduction in the margin of safety.

3.0 EVALUATION

The licensee proposes to revise Unit 1 Technical Specifications 3.8.3.1 and 3.8.3.2. These items establish the AC and DC power distribution line-up for components that serve both Unit 1 and Unit 2. During construction of Unit 2, these common components were powered from Unit 1 only. This revision to the Unit 1 Technical Specifications would transfer the power supply for some of the common components to Unit 2, while leaving the remainder powered from Unit 1 as they are at present. This sharing of power supplies to common equipment establishes the philosophy of interdependency between the Units and implements the final electrical configuration of the two-unit station design that was reviewed and approved by the staff in the Limerick Safety Evaluation Report (SER dated August, 1983.

4.0 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.

5.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (54 FR 18955) on May 3, 1989 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 the security nor to the health and safety of the public.

Principal Contributor: E. H. Trottier

Dated: June 15, 1989