

October 24, 1988

Docket No. 50-440

Mr. Alvin Kaplan, Vice President  
Nuclear Group  
The Cleveland Electric Illuminating  
Company  
10 Center Road  
Perry, Ohio 44081

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Dear Mr. Kaplan:

SUBJECT: TECHNICAL SPECIFICATION CHANGE REQUEST CONCERNING CONTAINMENT  
PENETRATION CONDUCTOR OVERCURRENT PROTECTION DEVICES (TAC NO. 68450)

The Commission has issued the enclosed Amendment No. 17 to Facility Operating License No. NPF-58 for the Perry Nuclear Power Plant, Unit No. 1. This amendment consists of changes to the Technical Specifications (TS) in response to your application dated June 9, 1988.

This amendment deletes from TS Table 3.8.4.1-1 spare circuit breakers which are not containment penetration conductor overcurrent protection devices and corrects typographical errors in the Table.

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

Sincerely,

/s/

Timothy G. Colburn, Sr. Project Manager  
Project Directorate III-3  
Division of Reactor Projects - III, IV, V  
& Special Projects  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 17 to License No. NPF-58
2. Safety Evaluation

cc w/enclosures:  
See next page

8810280029 881024  
PDR ADOCK 05000440  
P PDC

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*Handwritten initials and signatures*

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Perry Nuclear Power Plant  
Unit 1

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

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY, ET AL.

DOCKET NO. 50-440

PERRY NUCLEAR POWER PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 17  
License No. NPF-58

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by The Cleveland Electric Illuminating Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company, and Toledo Edison Company (the licensees) dated June 9, 1988 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-58 is hereby amended to read as follows:

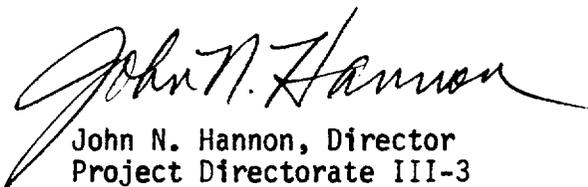
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P FDC

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 17 are hereby incorporated into this license. The Cleveland Electric Illuminating Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John N. Hannon, Director  
Project Directorate III-3  
Division of Reactor Projects - III,  
IV, V and Special Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 24, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 17

FACILITY OPERATING LICENSE NO. NPF-58

DOCKET NO. 50-440

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. Overleaf pages are provided to maintain document completeness.

Remove

3/4 8-23  
3/4 8-24

Insert

3/4 8-23  
3/4 8-24

TABLE 3.8.4.1-1

CONTAINMENT PENETRATION CONDUCTOR  
OVERCURRENT PROTECTIVE DEVICES

<u>13.8 KV LOAD</u>	<u>OVERCURRENT PROTECTION</u>	
	<u>Primary</u>	<u>Secondary</u>
1B33-C001A	L1106	1R22-S012
1B33-C001B	L1205	1R22-S013
<u>120V LOAD OR CIRCUIT</u>		
1B33-B1X (Space Heater)	1R25-S093-CB7	NA*
1B33-B3X (Space Heater)	1R25-S093-CB8	NA*
1B33-B5X (Space Heater)	1R25-S097-CB5	NA*
1B33-B7X (Space Heater)	1R25-S097-CB6	NA*
1B33-B9X (Space Heater)	1R25-S093-CB9	NA*
1B33-B11X (Space Heater)	1R25-S093-CB10	NA*
1B33-B13X (Space Heater)	1R25-S097-CB7	NA*
1B33-B15X (Space Heater)	1R25-S097-CB8	NA*
1C11-C1X	NA*	1H13-P653-CB1
1C41-B8XB (Space Heater)	1R25-S043-CB21	NA*
1F42-B4X (Space Heater)	1R25-S097-CB4	NA*

\*Protected by fuse.

TABLE 3.8.4.1-1 (Continued)

<u>120V LOAD OR CIRCUIT</u>	<u>OVERCURRENT PROTECTION</u>	
	<u>Primary</u>	<u>Secondary</u>
1R25-B516X	OR25-S054-CB7	NA*
1R25-B517X	OR25-S054-CB13	NA*
1R25-B245X	1R25-S057-CB12	NA*
1P56-B1060X	1R25-S053-CB34	NA*
1R25-B522X	OR25-S153-CB13	NA*
1R25-B515X	1R25-S053-CB25	NA*

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\*Protected by fuse.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 17 TO FACILITY OPERATING LICENSE NO. NPF-58

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY, ET AL.

PERRY NUCLEAR POWER PLANT, UNIT NO. 1

DOCKET NO. 50-440

1.0 INTRODUCTION

Technical Specification (TS) 3.8.4.1 of the Perry Nuclear Power Plant Unit 1 TS requires that all containment penetration conductor overcurrent protective devices shown in Table 3.8.4.1-1 shall be operable in operational conditions 1, 2 and 3. TS 4.8.4.1 requires surveillance tests to be completed at 18 and 60 months to demonstrate operability of these devices.

By letter dated June 9, 1988, The Cleveland Electric Illuminating Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company and Toledo Edison Company (licensees) submitted an application for amendment to the operating license for the Perry Nuclear Power Plant, Unit 1. The proposed amendment would delete spare circuit breakers from Table 3.8.4.1-1 of the Perry Unit 1 TS. These breakers were originally connected to motor operated valve space heaters used during construction which have since been disconnected. They are no longer connected to any load inside or outside containment. The proposed amendment would also correct three typographical errors in the table.

2.0 EVALUATION

General Design Criterion 50 "Containment Design Basis" requires, in part, that the reactor containment structure, including penetrations, shall be designed so that the containment structure can accommodate, without exceeding the design leakage rate, the calculated pressure, temperature, and other environmental conditions resulting from any Loss-of-Coolant Accident. When a load is connected to a circuit passing through an electrical penetration, the potential exists for an electrical fault inside containment to result in a penetration seal failure, such that a breach of containment might occur. When such a potential exists, the associated penetrations are provided with protection devices, such as circuit breakers.

The licensees have identified 17 circuit breakers in Table 3.8.4.1-1 which are "spares". These circuit breakers were left in the table by the licensees during Technical Specification development, to permit future plant modifications using these circuit breakers without requiring a TS change.

However, the licensees now feel that it is more beneficial to remove the spare circuit breakers from the table, thereby decreasing the required amount of surveillance testing. The licensees further believe that the majority of future modifications that could use these circuit breakers would require additional TS changes, and therefore, adding the circuit breakers onto the Table at that time would not be a problem.

The staff has reviewed electrical drawings for the Perry 120 volt electrical system and has verified that the circuit breakers designated by the licensees as "spares" are, in fact, unconnected to any electrical load inside or outside containment. Therefore, they are not required to function as protection devices and may be removed from the Table. The staff notes that prior to proposing future TS changes which would utilize any of these circuit breakers as containment penetration conductor overcurrent protection devices in Table 3.8.4.1-1, operability must be demonstrated.

With regard to the typographical error on the Table, the licensees have indicated that the correct circuit number for circuit breaker 1R25-S043-CB21 is 1C41-B8XB vice B9XB. The other typographical errors involve the last entry on the first page of Table 3.8.4.1-1 (TS page 3/4 8-23). The load circuit and primary circuit breaker listed are 1F42-B3X and 1R25-S097-CB3, respectively. However, this circuit and breaker does not supply power through any containment penetration. The correct numbers should be 1F42-B4X and 1R25-S097-CB4. This circuit and breaker supplies power to the space heater for the fuel transfer equipment hydraulic supply panel in containment, and as such is a containment penetration conductor overcurrent protective device.

The licensees have indicated that the circuit breaker has not been energized during plant operations. It has been included in the surveillance test instructions required by TS 4.8.4.1.

The licensees have further indicated that these surveillance tests will be performed prior to energizing the circuit that includes this breaker. Energization of this circuit and breaker will be required in order to utilize the fuel transfer equipment, in preparation for the upcoming first refueling outage. Testing of this equipment could begin as early as October of 1988. Following completion of this testing, the space heater circuit will continue to be energized during plant operations.

The staff has reviewed the licensees proposed corrections of typographical errors on Table 3.8.4.1-1 and finds them to be 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 or a change to a surveillance requirement. 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 or environmental assessment need be prepared in connection with the issuance of this amendment.

#### 4.0 CONCLUSION

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 or to the health and safety of the public.

Principal Contributor: T. Colburn

Dated: October 24, 1988