

July 6, 1989

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: AMENDMENT NO. 23 TO FACILITY OPERATING LICENSE NO. NPF-58  
(TAC NO. 72073)

The Commission has issued the enclosed Amendment No. 23 to Facility Operating License No. NPF-58 for the Perry Nuclear Power Plant, Unit No. 1. This amendment revises the license in response to your application dated February 10, 1989.

This amendment provides an addition to Attachment 1 of the Facility Operating License referencing the "Detailed Control Room Design Review - First Refuel HED Revisions Report" which was enclosed with your February 10, 1989 amendment application. The new reference revises earlier commitments for resolution of human engineering discrepancies.

Copies of the Safety Evaluation and notice of issuance are also enclosed. The notice of issuance has been forwarded to the Office of the Federal Register for publication.

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. 23 to License No. NPF-58
2. Safety Evaluation
3. Notice of Issuance

cc w/enclosures:

See next page

Office: LA/PDIII-3  
Surname: PKreutzer  
Date: 6/9/89

PM/PDIII-3  
TColburn/tg  
6/9/89

WRegan  
6/12/89

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JHannon  
6/14/89

OGC-WF1  
6/12/89

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P PDC

Mr. Alvin Kaplan  
The Cleveland Electric  
Illuminating Company

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Perry Nuclear Power Plant  
Unit 1

Mr. James W. Harris, Director  
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The Honorable Robert V. Orosz  
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Ohio Environmental Protection  
Agency  
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P. O. Box 97 SB306  
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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

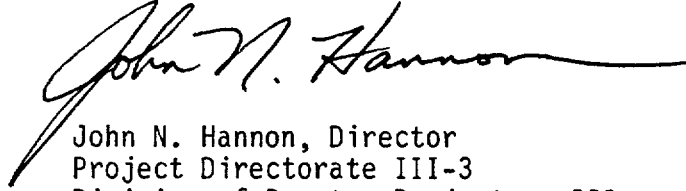
Amendment No. 23  
License No. NPF-58

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 February 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, Facility Operating License No. NPF-58 is amended by changing Attachment 1 to the license as indicated in the Attachment to this license amendment.

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, reading "John N. Hannon". The signature is fluid and cursive, with a long horizontal stroke at the end.

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

Attachment:  
Revised Attachment 1  
to NPF-58

Date of Issuance: July 6, 1989

ATTACHMENT 1

TO NPF-58

DETAILED CONTROL ROOM DESIGN REVIEW

Before start of the 100-hour warranty run, CEI shall implement corrections to human engineering discrepancies per commitments in Supplement 2 to the Detailed Control Room Design Review Summary Report, dated May 28, 1986, and in a letter from M. R. Edelman to W. R. Butler, dated August 26, 1986.

Before startup following the first refueling outage, CEI shall implement corrections to human engineering discrepancies per commitments in

- (a) the Detailed Control Room Design Review Summary Report, dated January 10, 1985.
- (b) Supplement 1 to the Detailed Control Room Design Review Summary Report, dated October 14, 1985.
- (c) Revision 1 to Supplement 1 to the Detailed Control Room Design Review Summary Report, dated October 21, 1985.
- (d) Supplement 2 to the Detailed Control Room Design Review Summary Report, dated May 28, 1986.
- (e) The Control Room Validation Summary Report, dated July 11, 1986.
- (f) Errata sheets to Supplement 2 to the Detailed Control Room Review Summary Report, attached to Letter PY-CEI/NRR-0510 L, dated July 29, 1986.
- (g) Detailed Control Room Design Review - First Refuel HED Revisions Report, attached to letter PY-CEI/NRR-0946L, dated February 10, 1989.

Before startup following the first refueling outage, CEI shall also provide results of the final sound surveys in the control room and at the remote shutdown facilities for NRC review per the commitment in Supplement 1 to the Detailed Control Room Design Review Summary Report, dated October 14, 1985.

Before startup following the second refueling outage, CEI shall complete the augmented verification of human engineering discrepancy corrections implemented after full-power licensing per the commitment in Supplement 2 to the Detailed Control Room Design Review Summary Report, dated May 28, 1986. CEI shall also correct any problems identified by the augmented verification before startup following the second refueling outage per the commitment in a letter from M. R. Edelman to W. R. Butler, dated August 26, 1986.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 23 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

As part of the NRC Task Action Plan following the TMI-2 accident (Item I.D.1, NUREG-0660 and NUREG-0737), all licensees and applicants for operating licenses were required to conduct a detailed control room design review (DCRDR) to identify and correct human engineering deficiencies (HED's). DCRDR's were to be performed in accordance with NUREG-0700, "Guidelines for Control Room Design Review," issued September 1981. Applicants were also required to establish a schedule for staff review and approval for correcting HED's.

By letter dated January 10, 1985, The Cleveland Electric Illuminating Company, et al., licensees for the Perry Nuclear Power Plant, Unit No. 1, submitted their DCRDR Summary Report. By letters dated October 14 and October 21, 1985, and May 28, July 11, and July 29, 1986, the licensees submitted Supplement 1, Revision 1 to Supplement 1, Supplement 2, the Validation Report and errata sheets to Supplement 2 of the DCRDR Summary Report, respectively. The staff's evaluation of these documents is contained in Section 18 of NUREG-0887, "Safety Evaluation Report related to the operation of Perry Nuclear Power Plant Units 1 and 2," Supplements 7, 8 and 10 dated November 1985, January 1986 and September 1986, respectively. The staff's review concluded that the licensees' program was acceptable and implementation of the commitments contained in the licensees' program was included as Attachment 1 to Facility Operating License No. NPF-58 for the Perry Nuclear Power Plant, Unit No. 1.

By letter dated February 10, 1989, the licensees requested an amendment to Attachment 1 to the Perry operating license to document reassessment of the remaining HED's from the DCRDR for Perry Unit 1 which are scheduled for completion during the first refueling outage.

2.0 EVALUATION

The licensees had scheduled 64 remaining (non-safety significant) HED's for completion by the end of the first refueling outage. The licensees have recently conducted a reassessment of the remaining HED's to ensure that the proposed fixes were still appropriate. The licensees provided a summary of their reassessment, including revisions to the HED report sheets for the

outstanding HED's, as part of their February 10, 1989 submittal. The proposed amendment would add a reference to their February 10, 1989 letter to the list of reference documents contained in Attachment 1 to the Perry Unit 1 operating license, chronicling the licensees' commitments to resolution of DCRDR HED's. The licensees propose to close 9 of the 64 HED's as unnecessary and have committed to completion of the remaining 55 HED's as described in the revised HED report sheets prior to the end of the first refueling outage. The licensees' submittal also documents various administrative changes to the HED report sheets to clarify the resolution of the HED such as the addition of attachment sheets identifying all of the instruments that will be modified by the HED.

The staff has reviewed the "First Refuel HED Revisions" report contained in the licensees' February 10, 1989 submittal and has determined that each of the proposed revisions is minor, non-safety significant, and consistent with the program approved in Supplements 7, 8 and 10 of NUREG-0887. Further, the staff agrees that the 9 HED's are unnecessary and may be considered closed with no further action. Therefore, the staff has determined that the proposed revisions are acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.21, 51.32, and 51.35 an environmental assessment and finding of no significant impact has been prepared and published in the Federal Register on July 3, 1989 (54 FR 27967). Accordingly, based upon the environmental assessment, the Commission has determined that the issuance of this amendment will not have a significant effect on the quality of the human environment.

### 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 Contributors:

G. West

T. Colburn

Dated: July 6, 1989

UNITED STATES NUCLEAR REGULATORY COMMISSION  
THE CLEVELAND ELECTRICAL ILLUMINATING COMPANY, ET AL.  
DOCKET NO. 50-440  
NOTICE OF ISSUANCE OF AMENDMENT TO  
FACILITY OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (Commission) has issued Amendment No. 23 to Facility Operating License No. NPF-58 issued to The Cleveland Electric Illuminating Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company and Toledo Edison Company (the licensees), which revised Attachment 1 to the Facility Operating License for operation of the Perry Nuclear Power Plant, Unit No. 1 located in Lake County, Ohio. The amendment is effective as of the date of issuance.

The amendment modified Attachment 1 to the license to incorporate by reference the licensees' reassessment of human engineering deficiencies (HED's) identified during their detailed control room design review (DCRDR) required by item I.D.1 of NUREG-0737. The new reference documents revised commitments for resolution of the HED's previously identified in the DCRDR summary reports and supplements which are also referenced in Attachment 1 of the Facility Operating License.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment.

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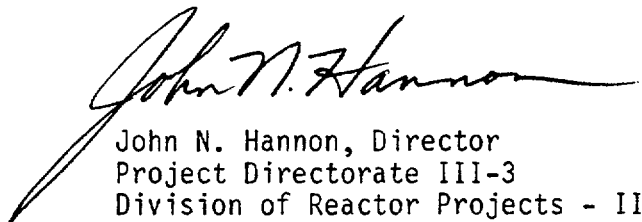
Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER on March 21, 1989 (54 FR 11598). No request for a hearing or petition for leave to intervene was filed following this notice.

The Commission has prepared an Environmental Assessment related to the action and has determined not to prepare an environmental impact statement. Based upon the environmental assessment, the Commission has concluded that the issuance of this amendment will not have a significant effect on the quality of the human environment.

For further details with respect to the action see (1) the application for amendment dated February 10, 1989, (2) Amendment No. 23 to Facility Operating License No. NPF-58, (3) the Commission's related Safety Evaluation dated July 6, 1989, and (4) the Environmental Assessment dated June 26, 1989. All of these items are available for public inspection at the Commission's Public Document Room, Gelman Building, 2120 L Street NW, Washington, D.C., and at the Perry Public Library, 3753 Main Street, Perry, Ohio 44081. A copy of items (2), (3) and (4) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Reactor Projects III, IV, V and Special Projects.

Dated at Rockville, Maryland this 6th day of July 1989.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in dark ink, appearing to read "John N. Hannon", is written over a series of horizontal lines.

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