

June 28, 1994

Docket No. 50-440

Mr. Robert A. Stratman  
Vice President Nuclear - Perry  
Centerior Service Company  
P. O. Box 97, S270  
Perry, Ohio 44081

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Dear Mr. Stratman:

SUBJECT: AMENDMENT NO. 62 TO FACILITY OPERATING LICENSE NO. NPF-58  
(TAC NO. M82973)

The Commission has issued the enclosed Amendment No. 62 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 in response to your application dated February 28, 1992.

This amendment removes the area criticality monitors for the fuel preparation pool, spent fuel storage pool and the upper containment pools from the Technical Specifications.

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,  
Original signed by Jon B. Hopkins  
Jon B. Hopkins, Sr. Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 62 to License No. NPF-58
2. Safety Evaluation

cc w/enclosures:  
See next page

*JBH 6/27/94*

PD3-3:LA	PD3-3:PM(A)	PD3-3:PM	HICB
MRushbrook	LGundrum/bj	JHopkins	JWermiel
5/12/94	5/13/94	5/13/94	5/16/94

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JCunningham	JHannon	APH
5/25/94	6/12/94	6/03/94

OFFICIAL RECORD

DOCUMENT NAME: g:\perry\per82973.amd

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Mr. Robert A. Stratman  
Centerior Service Company

cc:

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Perry Nuclear Power Plant  
Unit Nos. 1 and 2

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The Honorable Robert V. Orosz  
Mayor, Village of North Perry  
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Ohio Department of Health  
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Agency  
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Perry Township Board of Trustees  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

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. 62  
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, Centerior Service Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company, and Toledo Edison Company (the licensees) dated February 28, 1992, 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:

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 62 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 and shall be implemented not later than 90 days after issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Jon B. Hopkins, Senior Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of issuance: June 28, 1994

ATTACHMENT TO LICENSE AMENDMENT NO. 62

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.

Remove

Insert

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TABLE 3.3.7.1-1

RADIATION MONITORING INSTRUMENTATION

<u>INSTRUMENTATION</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>APPLICABLE CONDITIONS</u>	<u>ALARM/TRIP SETPOINT</u>	<u>ACTION</u>
1. Fuel Handling Area Vent Exhaust Radiation Monitor (Noble Gas)	1	**	≤ 1500 cpm	70
2. Offgas Post-treatment Radiation Monitor	1	*	≤ 1 x 10 <sup>6</sup> cpm <sup>(b)</sup>	71
3. Control Room Ventilation Radiation Monitor (Noble Gas)	1	All OPERATIONAL CONDITIONS and ***	≤ 800 cpm	72
4. Offgas Pre-treatment Radiation Monitor	1	*	(c)	73
5. Area Monitors				
a. (DELETED)				
b. Control Room Area Radiation Monitor	1	At all times	≤ 2.5 mR/hr <sup>(a)</sup>	75

\*When the offgas treatment system is operating.

\*\*With irradiated fuel in the Fuel Handling Building.

\*\*\*when irradiated fuel is being handled in the Fuel Handling Building or primary containment.

<sup>(a)</sup>Alarm only.

<sup>(b)</sup>Isolates the offgas system.

<sup>(c)</sup>Alarm setpoint to be set in accordance with Specification 3.11.2.7.

TABLE 3.3.7.1-1 (Continued)

RADIATION MONITORING INSTRUMENTATION

ACTION

- ACTION 70 - With the required monitor inoperable, obtain and analyze at least one grab sample of the monitored parameter at least once per 24 hours. In addition, with the Unit 1 Vent noble gas monitor inoperable, restore the inoperable noble gas monitor to OPERABLE status within 24 hours or place the inoperable noble gas monitor in the tripped condition.
- ACTION 71 - With the required monitor inoperable, release via this pathway may continue provided grab samples are taken at least once per 8 hours and these samples are analyzed for gross activity within 24 hours.
- ACTION 72 - With the required monitor inoperable, assure a portable continuous noble gas monitor or the Control Room Area Radiation Monitor is OPERABLE in the control room within 24 hours. Restore the inoperable monitor to OPERABLE status within 7 days, otherwise, initiate and maintain operation of the control room emergency filtration system in the isolation mode of operation within 1 hour.
- ACTION 73 - With the number of channels OPERABLE less than required by Minimum Channels OPERABLE requirement, release via this pathway may continue for up to 30 days provided:
- a. The offgas system is not bypassed, and
  - b. The offgas post-treatment monitor is OPERABLE, and
  - c. Grab samples are taken at least once per 8 hours and analyzed within the following 4 hours;
- Otherwise, be in at least HOT SHUTDOWN within 12 hours.
- ACTION 74 - DELETED
- ACTION 75 - With the required monitor inoperable, perform area surveys of the monitored area with portable monitoring instrumentation at least once per 24 hours.

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TABLE 4.3.7.1-1

RADIATION MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>INSTRUMENTATION</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL FUNCTIONAL TEST</u>	<u>CHANNEL CALIBRATION</u>	<u>CONDITIONS IN WHICH SURVEILLANCE REQUIRED</u>
1. Fuel Handling Area Vent Exhaust Radiation Monitor (Noble Gas)	S	M	R	**
2. Offgas Post-treatment Radiation Monitor	S	M	R	*
3. Control Room Ventilation Radiation Monitor (Noble Gas)	S	M	R	ALL OPERATIONAL CONDITIONS and ***
4. Offgas Pre-treatment Radiation Monitor	S	M	R	*
5. Area Monitors				
a. (DELETED)				
b. Control Room Area Radiation Monitor	S	M	R	At all times

\*When the offgas treatment system is operating.

\*\*With irradiated fuel in the Fuel Handling Building.

\*\*\*When irradiated fuel is being handled in the Fuel Handling Building or primary containment.

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 62 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

By letter dated February 28, 1992, the Cleveland Electric Illuminating Company, et al. (licensees), proposed changes to the Technical Specifications (TSs) for the Perry Nuclear Power Plant, Unit No. 1. The change requested deletion of the area criticality monitors for the fuel preparation and storage pool, spent fuel storage pool and the upper containment pools from TS Table 3.3.7.1-1, "Radiation Monitoring Instrumentation" and Table 4.3.7.1-1, "Radiation Monitoring Instrumentation Surveillance Requirements."

2.0 EVALUATION

The NRC staff has reviewed the proposed changes to the TS regarding removal of the area criticality monitors for the fuel preparation pool, spent fuel pool, and upper containment pools.

The proposed changes do not affect the methods that prevent criticality, specifically the design of the pools, spacing requirements maintained in the pools, requirements for specific levels or quantities of neutron absorbers, and maintaining cooling and shielding by requiring specific pool water levels. Criticality evaluations are provided for the fuel preparation pool, spent fuel pool, and upper containment pools in Updated Safety Analysis Report (USAR) Section 9.1.2. No credit is taken in these analyses for the area criticality monitors.

The area criticality monitors provide only an alarm function when radiation levels increase above their setpoint (equal to or greater than 5 mR/hr and less than or equal to 20 mR/hr), and, by themselves, initiate no action to prevent or mitigate an event. Since the licensee will continue to utilize the existing monitors as area radiation monitors as discussed in USAR Section 12.3.4.1.2, the monitors will alert personnel if radiation levels exceed the monitors' setpoint.

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As specified in 10 CFR 70.24, criticality monitoring requirements are not intended to require underwater monitoring when special nuclear material is handled or stored beneath water shielding. This same change is included in the licensee's submittal (PY-CEI/NRR-1732 L) to improve and reformat the PNPP TS, based on NUREG-1434, "Improved BWR-6 Technical Specifications," Revision 0, September 1992.

Based on the above, the NRC staff finds the proposed changes to be acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Ohio State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 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 June 17, 1994 (59 FR 31272). 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 human environment.

### 5.0 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) 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: Linda Gundrum

Date: June 28, 1994