

April 8, 1993

Docket Nos. 50-315
and 50-316

Mr. E. E. Fitzpatrick, Vice President
Indiana Michigan Power Company
c/o American Electric Power Service Corporation
1 Riverside Plaza
Columbus, Ohio 43216

Dear Mr. Fitzpatrick:

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNIT NOS. 1 AND 2 - AMENDMENT NOS. 172
AND 155 TO FACILITY OPERATING LICENSE NOS. DPR-58 AND DPR-74
(TAC NOS. M83766 AND M83767)

The Commission has issued the enclosed Amendment No. 172 to Facility Operating License No. DPR-58 and Amendment No. 155 to Facility Operating License No. DPR-74 for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2. The amendments consist of changes to the Technical Specifications (TS) in response to your application dated May 1, 1992.

The amendments change the number of containment thermistor fire detectors listed in Tables 3.3-10 and 3.3-11 of Unit 1 TS 3.3.3.7 and Unit 2 TS 3.3.3.8, "Fire Detection Instrumentation," respectively. The changes are necessary to reflect the as-built condition in Units 1 and 2.

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

Sincerely,

Original Signed By:

William M. Dean, Sr. Project Manager
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 172 to DPR-58
2. Amendment No. 155 to DPR-74
3. Safety Evaluation

CR-1

NRC FILE CENTER COPY

cc w/enclosures:
See next page

OFFICE	LA:PD31	PM:PD31	OGC	D:PD31	BC:SPLB
NAME	MShuttleworth <i>MS</i>	WDean <i>WD</i>	<i>dc</i>	LMarsh <i>LM</i>	CMcCracken
DATE	<i>3 19 93</i>	<i>3 24 93</i>	<i>4 11 93</i>	<i>4 18 93</i>	<i>3 24 93</i>

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

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Indiana Michigan Power Company
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A copy of our related 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 "William M. Dean".

William M. Dean, Sr. Project Manager
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 172 to DPR-58
2. Amendment No. 155 to DPR-74
3. Safety Evaluation

cc w/enclosures:
See next page

Mr. E. E. Fitzpatrick
Indiana Michigan Power Company

Donald C. Cook Nuclear Plant

cc:

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Nuclear Facilities and Environmental
Monitoring Section Office
Division of Radiological Health
Department of Public Health
3423 N. Logan Street
P. O. Box 30195
Lansing, Michigan 48909

DATED: April 8, 1993

AMENDMENT NO. 172 TO FACILITY OPERATING LICENSE NO. DPR-58-D. C. COOK
AMENDMENT NO. 155 TO FACILITY OPERATING LICENSE NO. DPR-74-D. C. COOK

Docket File
NRC & Local PDRs
PDIII-1 Reading
D.C. Cook Plant File
J. Roe
J. Zwolinski
L. Marsh
M. Shuttleworth
W. Dean
OGC-WF
D. Hagan, 3302 MNBB
G. Hill (8), P-137
Wanda Jones, MNBB-7103
C. Grimes, 11/F/23
ACRS (10)
GPA/PA
OC/LFMB
W. Shafer, R-III

cc: Plant Service list



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

INDIANA MICHIGAN POWER COMPANY

DOCKET NO. 50-315

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 172
License No. DPR-58

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Indiana Michigan Power Company (the licensee) dated May 1, 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.

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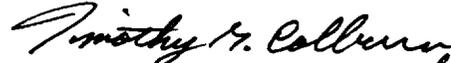
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-58 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 172, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION


Ledyard B. Marsh, Director *for*
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 8, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 172
TO FACILITY OPERATING LICENSE NO. DPR-58
DOCKET NO. 50-315

Revise Appendix A Technical Specifications by removing the page identified below and inserting the attached page. The revised page is identified by amendment number and contains vertical lines indicating the area of change.

REMOVE

3/4 3-53a

INSERT

3/4 3-53a

TABLE 3.3-10 (Continued)
Unit 1 and Common Area Fire Detection Systems

<u>Detector System Location</u>	<u>Total Number of Detectors</u>		
	<u>Heat</u> (x/y)*	<u>Flame</u> (x/y)*	<u>Smoke</u> (x/y)*
U1 Cable Tunnels			
a) Quad 1 Cable Tunnel		0/3	0/4
b) Quad 2 Cable Tunnel		0/4	0/7
c) Quad 3N		0/3	0/4
d) Quad 3S		0/3	0/3
e) Quad 3M		0/3	0/4
f) Quad 4		0/5	0/6
U1 Charcoal Filter Ventilation Units			
a) 2-HV-AES-1	0/1*****		
b) 2-HV-AES-2	0/1*****		
c) 2-HV-ACRF	0/1*****		
d) 2-HV-CIPX	0/1*****		
e) 2-HV-CPR	0/1*****		
f) 12-HV-AFX	0/1*****C		
U1 Containment*****			
a) RCP 1	1/0		
b) RCP 2	1/0		
c) RCP 3	1/0		
d) RCP 4	1/0		
e) Cable Trays	58/0*****		

C System protects area common to both Units 1 and 2
*(x/y) x is number of Function A (early warning fire detection and notification only) instruments.
y is number of Function B (actuation of fire suppression systems and early warning and notification) instruments.

***** Originally installed to automatically deluge charcoal filters. However, manual actions are now necessary.

***** The fire detection instruments located within the Containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate tests.

***** Thermistors are located within all cable trays which contain combustible cables, in both upper and lower containment throughout quadrants 1-4.

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. DPR-74 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 155, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION


Ledyard B. Marsh, Director
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 8, 1993



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

INDIANA MICHIGAN POWER COMPANY

DOCKET NO. 50-316

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 155
License No. DPR-74

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Indiana Michigan Power Company (the licensee) dated May 1, 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.

ATTACHMENT TO LICENSE AMENDMENT NO. 155

FACILITY OPERATING LICENSE NO. DPR-74

DOCKET NO. 50-316

Revise Appendix A Technical Specifications by removing the page identified below and inserting the attached page. The revised page is identified by amendment number and contains vertical lines indicating the area of change.

REMOVE

3/4 3-52a

INSERT

3/4 4-52a

TABLE 3.3-11 (Continued)

Unit 2 and Common Area Fire Detection Systems

<u>Detection System Location</u>	<u>Total Number of Detectors</u>		
	<u>Heat (x/y)*</u>	<u>Flame (x/y)*</u>	<u>Smoke (x/y)*</u>
U2 Cable Tunnels			
a) Quad 1 Cable Tunnel		0/3	0/4
b) Quad 2 Cable Tunnel		0/4	0/7
c) Quad 3N		0/3	0/3
d) Quad 3S		0/3	0/4
e) Quad 3M		0/3	0/4
f) Quad 4		0/5	0/6
U2 Charcoal Filter Ventilation Units			
a) 2-HV-AES-1	0/1*****		
b) 2-HV-AES-2	0/1*****		
c) 2-HV-ACRF	0/1*****		
d) 2-HV-CIPX	0/1*****		
e) 2-HV-CPR	0/1*****		
f) 12-HV-AFX	0/1*****C		
U2 Containment*****			
a) RCP 1	1/0		
b) RCP 2	1/0		
c) RCP 3	1/0		
d) RCP 4	1/0		
e) Cable Trays	64/0*****		

C System protects area common to both Units 1 and 2

*(x/y) x is number of Function A (early warning fire detection and notification only) instruments.

y is number of Function B (actuation of fire suppression systems and early warning and notification) instruments.

***** Originally installed to automatically deluge charcoal filters. However, manual actions are now necessary.

***** The fire detection instruments located within the Containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate tests.

***** Thermistors are located within all cable trays which contain combustible cables, in both both upper and lower containment throughout quadrants 1-4.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 172 TO FACILITY OPERATING LICENSE NO. DPR-58
AND AMENDMENT NO. 155 TO FACILITY OPERATING LICENSE NO. DPR-74

INDIANA MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-315 AND 50-316

1.0 INTRODUCTION

By letter dated May 1, 1992, the Indiana Michigan Power Company (the licensee) requested amendments to the Technical Specifications (TS) appended to Facility Operating License Nos. DPR-58 and DPR-74 for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2. The proposed amendments would change the number of containment thermistor fire detectors to accurately reflect the as-built conditions in Units 1 and 2.

2.0 EVALUATION

The function of the fire detection and alarm system is to provide a means to detect, display, and annunciate the presence of fire in certain areas of the plant as required by regulations or where a fire hazard may be present. The detection systems are designed to provide early detection of a fire, which can help to minimize the smoke and fire damage.

A number of fire detection thermistors are located in the containment to detect the presence of fire in the area of the reactor coolant pumps and those cable trays which contain combustible cables. These thermistors are listed in Table 3.3-10 and Table 3.3-11 of Unit 1 TS 3.3.3.7 and Unit 2 TS 3.3.3.8, "Fire Detection Instrumentation," respectively. The existing TS list the number of cable tray thermistors by quadrant. The licensee proposes eliminating the thermistor to quadrant relationship in the TS and only list the total number of containment cable tray thermistors.

Currently, the TS list the incorrect number of thermistors for each of the quadrants in both the Unit 1 and Unit 2 TS. Additionally, the total number of containment cable tray thermistors contained in the Unit 2 TS is incorrect. There are 64 instead of 66 thermistors. The errors in the number of thermistors per quadrant has resulted in the licensee instituting Action "c" of the TS, since the actual number of operational thermistors is less than that listed in the TS for several of the quadrants. Given the current TS, this action would be required even if none of the thermistors were inoperable.

The licensee proposes to simplify the applicable tables in the TS by listing only the total number of containment cable tray thermistors as opposed to listing them by quadrant. This would have no impact on the actions currently required if any single thermistor in a quadrant became inoperable. In the revised TS, if any thermistor became inoperable, a fire watch patrol would be required to inspect the containment zone once every eight hours or monitor containment air temperature at the locations listed in TS 4.6.1.5 once per hour.

The licensee also proposes modifying one of the footnotes to Table 3.3-10 (Unit 1) and Table 3.3-11 (Unit 2). The current footnote which states how each thermistor was assigned to a quadrant would be replaced with a footnote that states thermistors are located in all cable trays containing combustible cables in all the quadrants in both the upper and lower containment.

In its submittal of May 1, 1992, the licensee committed to performing a design verification of the containment cable trays for both units. This was intended to ensure that cable trays containing combustible cables are adequately protected with thermistor strings. The licensee has completed this design verification.

The staff has reviewed the licensee's proposed technical specifications amendments and has found them to be administrative in nature. Considering the information above, the staff has found the changes to the technical specifications to be acceptable.

3.0 STATE CONSULTATION

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

4.0 ENVIRONMENTAL CONSIDERATION

The amendments change the requirements 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 amendments involve 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 the amendments involve no significant hazards consideration and there has been no public comment on such finding (57 FR 30250). Accordingly, the amendments meet 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 the amendments.

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 the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: W. Dean

Date: April 8, 1993