

August 27, 1982

Doc et No. 50-237/249  
LS05-82-08-071

Mr. L. DeGeorge  
Director of Nuclear Licensing  
Commonwealth Edison Company  
Post Office Box 767  
Chicago, Illinois 60690

Dear Mr. DeGeorge:

SUBJECT: SPENT FUEL POOL MODIFICATION

Dresden Station Units 2 and 3

Pursuant to the Atomic Safety and Licensing Board's (ASLB), "Final Initial Decision," dated August 17, 1982, the Commission has issued the enclosed Amendment No. 74 to Provisional Operating License No. DPR-19 for Dresden Nuclear Power Station, Unit 2 and Amendment No. 66 to Facility Operating License No. DPR-25 for Dresden Nuclear Power Station, Unit 3. These amendments complete our response to your application dated May 11, 1978. Supplemental and supporting information for this application was transmitted by your letters dated January 12 and 24, 1979, May 30, 1979, June 12, 1979, August 17, 1979, October 19 and 29, 1979, December 2, 1980, January 29, 1981, June 8, 1981 October 2, 1981 and January 20, 1982.

The amendments approve the installation of 33 high-density spent fuel storage racks for Dresden Units 2 and 3. With respect to Unit 3, we previously issued a license condition and approved Technical Specification changes for installation of 5 racks by License Amendment No. 56 dated October 29, 1981, pursuant to a Partial Initial Decision by the ASLB dated September 24, 1981.

The amendment for Unit 2 approves the installation and use of 33 high-density fuel storage racks (License Condition 3.N) and authorizes a Technical Specification change which requires the effective subcritical multiplication factor (Keff) in the spent fuel pool be maintained below 0.95. The Unit 3 amendment modifies License Condition 3.M.1 to authorize the installation and use of 33, rather than 5, high-density fuel storage racks.

*SEOL*  
*DSU USE EX(16)*

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Mr. L. DelGeorge

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August 27, 1982

The staff's related Safety Evaluation and Environmental Impact Appraisal were issued by letter dated June 5, 1980. A Supplemental Safety Evaluation prepared by the staff in light of additional seismic information was served on the parties to the proceeding by letter dated May 28, 1982 (R. Goddard to ASLB Members).

A copy of a combined Notice of Issuance and a Negative Declaration is also enclosed. You have been provided a copy of the ASLB's Final Initial Decision by separate transmittal.

Sincerely,

Original signed by

Dennis M. Crutchfield, Chief  
Operating Reactors Branch #5  
Division of Licensing

Enclosures:

1. Amendment No. 74 to  
License No. DPR-19
2. Amendment No. 66 to  
License No. DPR-25
3. Notice and Negative  
Declaration

cc w/enclosures:  
See next page

DISTRIBUTION

Docket  
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Local PDR  
ORB Reading  
ORB #2 Reading  
DCrutchfield  
DVassallo  
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OELD  
OI&E (2)  
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TBarnhart (8)

*Amend + FPN only  
add: Amend off as of date of issuance*

DL: ORB #2  
SNorris  
1 / 82

DL: ORB #2  
DVassallo  
1 / 82

OFFICE	DL: ORB #5	DL: ORB #2	DL: ORB #5	OELD	DL: ORB #5	DL: AD/OR	DL: AD/SA
SURNAME	HSmith:cc	JHegner	PO'Connor	Goddard	DCrutchfield	GLainas	TIPOLito
DATE	8/19/82	1 / 82	1 / 82	8/23/82	8/27/82	1 / 82	8/27/82

Station  
Unit 3

8/26

Hazel,

I've confirmed that the 4  
license conditions have been incorporated  
in the FSAR. They're in Section  
10.1.2.2, Spent Fuel Storage Pp1.  
Joe

Mr. L. DelGeorge

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August 27, 1982

cc

Isham, Lincoln & Beale  
Counselors at Law  
One First National Plaza, 42nd Floor  
Chicago, Illinois 60603

Mr. Doug Scott  
Plant Superintendent  
Dresden Nuclear Power Station  
Rural Route #1  
Morris, Illinois 60450

The Honorable Tom Corcoran  
United States House of Representatives  
Washington, D. C. 20515

U. S. Nuclear Regulatory Commission  
Resident Inspectors Office  
Dresden Station  
RR #1  
Morris, Illinois 60450

Mary Jo Murray  
Assistant Attorney General  
Environmental Control Division  
188 W. Randolph Street  
Suite 2315  
Chicago, Illinois 60601

Chairman  
Board of Supervisors of  
Grundy County  
Grundy County Courthouse  
Morris, Illinois 60450

John F. Wolf, Esquire  
3409 Shepherd Street  
Chevy Chase, Maryland 20015

Dr. Linda W. Little  
500 Hermitage Drive  
Raleigh, North Carolina 27612

Judge Forrest J. Remick  
The Carriage House - Apartment 205  
2201 L Street, N. W.  
Washington, D. C. 20037

Illinois Department of Nuclear Safety  
1035 Outer Park Drive, 5th Floor  
Springfield, Illinois 62704

U. S. Environmental Protection Agency  
Federal Activities Branch  
Region V Office  
ATTN: Regional Radiation Representative  
230 South Dearborn Street  
Chicago, Illinois 60604

James G. Keppler, Regional Administrator  
Nuclear Regulatory Commission, Region III  
799 Roosevelt Street  
Glen Ellyn, Illinois 60137



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-237

DRESDEN NUCLEAR POWER STATION, UNIT 2

AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 74  
License No. DPR-19

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Commonwealth Edison Company (the licensee) dated May 11, 1978, as supplemented and supported by letters dated January 12 and 24, 1979, May 30, 1979, June 12, 1979, August 17, 1979, October 19 and 29, 1979, December 2, 1980, January 29, 1981, June 8, 1981, October 2, 1981 and January 20, 1982, complies with 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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P PDR

2. Accordingly, pursuant to the Atomic Safety and Licensing Board's (ASLB), "Final Initial Decision," dated August 17, 1982, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and a new Paragraph 3.N is added. Thus, Paragraph 3.B is hereby revised and Paragraph 3.N is hereby incorporated in Provisional Operating License No. DPR-19 to read as follows:


3.B Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 74, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3.N Spent Fuel Storage Racks\*

1. The licensee is authorized to install and use 33 high-density fuel storage racks in the spent fuel storage pool at Dresden Station, Unit 2.
  2. Fuel stored in the spent fuel pool shall have a U-235 loading less than or equal to 14.8 grams per axial centimeter.
  3. No loads heavier than the weight of a single spent fuel assembly and handling tool shall be carried over fuel stored in the spent fuel pool.
3. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Thomas A. Ippolito, Acting Assistant Director  
for Safety Assessment  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: August 27, 1982

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\* Prior to the effective date of the ASLB's Final Initial Decision of August 17, 1982, the licensee had submitted to the Commission an updated FSAR for Dresden Station, Unit 2 to reflect the commitments set forth in the ASLB's Partial Initial Decision dated September 24, 1981, as referenced in the ASLB's Final Initial Decision, Section III.4.

ATTACHMENT TO LICENSE AMENDMENT NO. 74

PROVISIONAL OPERATING LICENSE NO. DPR-19

DOCKET NO. 50-237

Revise the Appendix "A" Technical Specifications by replacing the existing Page 157 with the attached Page 157.

## 5.0 DESIGN FEATURES

### 5.1 Site

Dresden Unit 2 is located at the Dresden Nuclear Power Station which consists of a tract of land of approximately 953 acres located in the north-east quarter of the Morris 15-minute quadrangle (as designated by the United States Geological Survey), Goose Lake Township, Grundy County, Illinois. The tract is situated in portions of Sections 25, 26, 27, 34, 35 and 36 of Township 34 North, Range 8 East of the Third Principal Meridian.

### 5.2 Reactor

- A. The core shall consist of not more than 724 fuel assemblies.
- B. The reactor core shall contain 177 cruciform-shaped control rods. The control material shall be boron carbide powder ( $B_4C$ ) compacted to approximately 70% of theoretical density.

### 5.3 Reactor Vessel

The reactor vessel shall be as described in Table 4.1.1 of the SAR. The applicable design codes shall be as described in Table 4.1.1 of the SAR.

### 5.4 Containment

- A. The principal design parameters and applicable design codes for the primary containment shall be as given in Table 5.2.1 of the SAR.
- B. The secondary containment shall be as described in Section 5.3.2 of the SAR and the applicable codes shall be as described in Section 12.1.1.3 of the SAR.
- C. Penetrations to the primary containment and piping passing through such penetrations shall be designed in accordance with standards set forth in Section 5.3.2 of the SAR and the applicable codes shall be as described in Section 12.1.1.3 of the SAR.

### 5.5 Fuel Storage

- A. The new fuel storage facility shall be such that the  $K_{eff}$  dry is less than 0.90 and flooded is less than 0.95.
- B. The  $K_{eff}$  of the spent fuel storage pool shall be less than or equal to 0.95.

### 5.6 Seismic Design

The reactor building and all contained engineered safeguards are designed for the maximum credible earthquake ground motion with an acceleration of 20 per cent of gravity. Dynamic analysis was used to determine the earthquake acceleration, applicable to the various elevations in the reactor building.





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

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-249

DRESDEN NUCLEAR POWER STATION, UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 66  
License No. DPR-25


1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by the Commonwealth Edison Company (the licensee) dated May 11, 1978, as supplemented and supported by the information transmitted by letters dated January 12 and 24, 1979, May 30, 1979, June 12, 1979, August 17, 1979, October 19, and 29, 1979, December 2, 1980, January 29, 1981, June 8, 1981, October 2, 1981 and January 20, 1982, 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. This 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, pursuant to the Atomic Safety and Licensing Board's (ASLB), "Final Initial Decision," dated August 17, 1982, Paragraph 3.M.1 of Facility Operating License No. DPR-25 is hereby amended to read as follows:

M. Spent Fuel Storage Racks

1. The licensee is authorized to install and use 33 high-density fuel storage racks in the spent fuel storage pool at Dresden Station, Unit 3.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Thomas A. Ippolito, Acting Assistant Director  
for Safety Assessment  
Division of Licensing

Date of Issuance: August 27, 1982

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-237/249COMMONWEALTH EDISON COMPANYNOTICE OF ISSUANCE OF AMENDMENTS TO OPERATING LICENSES  
AND NEGATIVE DECLARATION

Pursuant to the Atomic Safety and Licensing Board's (ASLB), "Final Initial Decision," dated August 17, 1982, the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 74 to Provisional Operating License No. DPR-19 and Amendment No. 66 to Facility Operating License No. DPR-25, to Commonwealth Edison Company (the licensee), which revised the licenses for operation of the Dresden Nuclear Power Station, Units 2 and 3. The Unit 2 amendment also revised the Technical Specifications. The Dresden Station is located in Grundy County, Illinois. The amendments are effective as of the date of issuance.

The amendments approve the installation of 33 high-density spent fuel storage racks for Dresden Units 2 and 3. With respect to Unit 3, the Commission previously issued a license condition and approved Technical Specification changes for installation of 5 racks by License Amendment No. 56 dated October 29, 1981, pursuant to a Partial Initial Decision by the ASLB dated September 24, 1981.

The amendment for Unit 2 approves the installation and use of 33 high-density fuel storage racks (License Condition 3.N) and authorizes a Technical Specification change which requires the effective subcritical multiplication factor ( $K_{eff}$ ) in the spent fuel pool be maintained below 0.95. The Unit 3 amendment modifies License Condition 3.M.1 to authorize the installation and use of 33, rather than 5, high-density fuel storage racks.

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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 amendments. These amendments complete the proposed action encompassed within the scope of the Notice of Proposed Issuance of Amendments to Operating Licenses which was published in the Federal Register on August 11, 1978 (43 FR 35763). In a Notice of Hearing dated March 29, 1979, the ASLB granted the State of Illinois' petition to intervene. The ASLB's "Final Initial Decision," dated August 17, 1982, completes this portion of the adjudicatory process.

The Commission has issued an Environmental Impact Appraisal dated June 5, 1980 for this action and has concluded that an Environmental Impact Statement for this action is not warranted because the action will not significantly affect the quality of the human environment.


For further details with respect to this action, see (1) the application for amendment dated May 11, 1978, also see licensee letters dated January 12 and 24, 1979, May 30, 1979, June 12, 1979, August 17, 1979, October 19 and 29, 1979, December 2, 1980, January 29, 1981, June 8, 1981, October 2, 1981 and January 20, 1982; (2) the Commission's related Safety Evaluation and Environmental Impact Appraisal, dated June 5, 1980 and Supplemental Safety Evaluation issued to the ASLB May 28, 1982 (Tr. 1231); (3) Amendment No. 56 to DPR-25, dated October 29, 1981; (4) Amendment No. 74 to License No. DPR-19; (5) Amendment No. 66 to License No. DPR-25, including the Commission's letter of transmittal;

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(6) the ASLB's Partial Initial Decision, dated September 24, 1981, and (7) the ASLB's Final Initial Decision dated August 17, 1982, including the exhibits listed in Appendix A-1. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C., and at the Morris Public Library, 604 Liberty Street, Morris, Illinois 60451. A copy of items (3), (4) and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D.C., Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 27th day of August, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Dennis M. Crutchfield, Chief  
Operating Reactors Branch #5  
Division of Licensing