

DEC 22 1969

Docket No. 50-237

Commonwealth Edison Company
72 West Adams Street
Chicago, Illinois 60690

Attention: Mr. Byron Lee, Jr.
Assistant to the President

Gentlemen:

Provisional Operating License No. DPR-19, with appended Technical Specifications, is enclosed. The license authorizes Commonwealth Edison Company to operate the Dresden Nuclear Power Station Unit 2 at steady state power levels not to exceed 2527 megawatts (thermal) in accordance with the provisions of the license and Technical Specifications appended thereto.

A copy of a related notice which has been forwarded to the Office of the Federal Register for publication is also enclosed.

With regard to the report of the Advisory Committee on Reactor Safeguards (ACRS), dated September 10, 1969, concerning the application for a facility license for operation of the Dresden Nuclear Power Station Unit 2, it is our understanding that all actions recommended have been carried out, where necessary before power operation, or are being carried out as recommended, by Commonwealth Edison Company.

The potential for radiolytic decomposition of water following a design basis accident which was specifically noted in the ACRS letter has been discussed with representatives of your company and the General Electric Company. We understand that Commonwealth Edison Company plans to evaluate the potential for, and the effects of, radiolytic decomposition of water as they relate to the Dresden Unit 2 plant design. The results of this evaluation should be submitted to us for review.

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We agree with the programs you have outlined in your letters dated October 7, 1969, October 16, 1969, and December 4, 1969, with regard to modification of the electrical, instrumentation and control portions of the Standby Gas Treatment System, nondestructive testing of certain reactor components within the facility, testing of the drywell to piping penetration bellows, and performance of certain low power hot functional tests. In addition, we note your letters of November 25, 1969 and December 15, 1969, containing information to clarify the type of valves installed in the low pressure coolant injection subsystem for recirculation testing and your plans for additional surveillance on the control rod drives during the start-up test program, respectively.

As a result of recent experience with the operation of boiling water reactors, there are two matters which we wish to draw to your attention. First, sensors installed in these reactor vessels to obtain complete data on vibrational characteristics have failed. We understand that the sensors which failed are similar to those planned in the initial vibration test program described in Amendment Nos. 7 and 9 for Dresden Unit 2. Because of this experience, your program should be reviewed with particular emphasis directed to the types of sensors and installation techniques to be used to assure a high degree of confidence that the planned test program can be completed. Second, excessive leakage from the main steam line isolation valves has been noted at these other facilities. You should review your planned preoperational testing program for the Dresden Unit 2 main steam line isolation valves and perform such additional tests, maintenance or modifications as are deemed necessary to assure that the low leakage requirements specified in the Technical Specifications are met.

Two signed copies of Amendment No. 12 to Indemnity Agreement No. B-10, which covers the activities authorized under this license, are enclosed for your review and acceptance. Please sign and return one copy of the amendment to this office.

Sincerely yours,

ORIGINAL SIGNED BY

Peter A. Morris

Peter A. Morris, Director
Division of Reactor Licensing

Enclosures:

1. Lic. No. DPR-19 w/Tech Specs

See attached for distribution.

2. Fed. Reg. Notice

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|---------|-----------------------------------|----------|----------|----------|-----|
| OFFICE | 3. Amend. No. 12 to I.A. No. B-10 | DRL:RP | OGC | DRL:RP | DRL |
| SURNAME | RLTedesco/dj | RSBoyd | PAMorris | | |
| DATE | 12/19/69 | 12/19/69 | 12/19/69 | 12/22/69 | |

Commonwealth Edison Company

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Distribution:

AEC Pub. Doc. Rm. w/T.S.

Docket File w/T.S.

DR Reading

DRL Reading

RPB-2 Reading

R. S. Boyd

R. L. Tedesco

T. F. Engelhardt, OGC

L. Kornblith, CO (2) w/T.S.

N. Dube w/3 encs. incl. T.S.

D. Skovholt w/T.S.

F. Collins w/T.S.

bcc: H. J. McAlduff, ORO w/T.S.

W. B. Kenna, Dist. II Safeguards
Office, ORO w/T.S.

A. A. Wells, ASLBP w/T.S.

S. Robinson, SECY w/T.S.

E. E. Hall, GMR/H

J. A. Harris, PI

R. Leith, OC

J. R. Buchanan, ORNL w/T.S.

T. W. Laughlin, DTIE w/T.S.

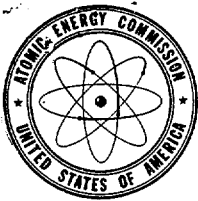
J. Verme, SNM

D. Nussbaumer, DML

C. F. Eason, Workmen's
Compensation & Radiation
Records w/T.S.

H. Steele (2)

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UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-237

PROVISIONAL OPERATING LICENSE

License No. DPR-19

The Atomic Energy Commission (the Commission) having found that:

- a. The application for a facility license dated November 17, 1967, as amended, (Amendment Nos. 7 through 20, dated August 30, 1968, November 21, 1968, February 28, 1969, March 18, 1969, April 16, 1969, May 20, 1969, July 2, 1969, July 22, 1969, August 5, 1969, August 8, 1969, August 18, 1969, August 18, 1969, September 2, 1969, and October 16, 1969, respectively) complies with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations set forth in Title 10, Chapter 1, CFR;
- b. The facility has been constructed in accordance with the application, as amended, and the provisions of Provisional Construction Permit No. CPPR-18;
- c. There are involved features, characteristics and components as to which it is desirable to obtain actual operating experience before the issuance of an operating license for the full term requested in the application;
- d. There is reasonable assurance (i) that the facility can be operated at steady state power levels not in excess of 2527 megawatts (thermal) in accordance with this license without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
- e. The applicant is technically and financially qualified to engage in the activities authorized by this license, in accordance with the rules and regulations of the Commission;
- f. The applicant has furnished proof of financial protection to satisfy the requirements of 10 CFR Part 140;
- g. The issuance of this license will not be inimical to the common defense and security or to the health and safety of the public;

Provisional Operating License No. DPR-19 is hereby issued to Commonwealth Edison Company (Commonwealth Edison), as follows:

1. This license applies to the Dresden Nuclear Power Station Unit 2, a single cycle, boiling, light water reactor, and electric generating equipment (the facility). The facility is located at the Dresden Nuclear Power Station in Grundy County, Illinois, and is described in the "Safety Analysis Report," as supplemented and amended (Amendment Nos. 7 through 20).
2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Commonwealth Edison:
 - A. Pursuant to Section 104b of the Atomic Energy Act of 1954, as amended (the Act), and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility as a utilization facility at the designated location at the Dresden Nuclear Power Station;
 - B. Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material," to receive, possess and use at any one time up to 5,000 kilograms of contained uranium 235 in connection with operation of the facility;
 - C. Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Licensing of Byproduct Material," to receive, possess, and use in connection with operation of the facility 17,500 curies Antimony 122-124 as fourteen sealed sources not to exceed 1,250 curies each; and six curies Americium 241 as a sealed source; and
 - D. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not to separate, such byproduct and special nuclear material as may be produced by operation of the facility.
3. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations: 10 CFR Part 20, Section 30.34 of 10 CFR Part 30, Section 40.41 of 10 CFR Part 40, Sections 50.54 and 50.59 of 10 CFR Part 50, and Section 70.32 of 10 CFR Part 70; and is subject to the additional conditions specified below:

A. Maximum Power Level

Commonwealth Edison is authorized to operate the facility at steady state power levels not in excess of 2527 megawatts (thermal).

B. Technical Specifications

The Technical Specifications contained in Appendix A attached hereto are hereby incorporated in this license. Commonwealth Edison shall operate the facility at steady state power levels not in excess of 2527 megawatts (thermal) in accordance with the Technical Specifications, and may make changes therein only when authorized by the Commission in accordance with the provisions of Section 50.59 of 10 CFR Part 50.

C. Reports

Commonwealth Edison shall make certain reports in accordance with the requirements of the Technical Specifications.

D. Records

Commonwealth Edison shall keep facility operating records in accordance with the requirements of the Technical Specifications.

4. This license is effective as of the date of issuance and shall expire eighteen (18) months from said date, unless extended for good cause shown, or upon the earlier issuance of a superseding operating license.

FOR THE ATOMIC ENERGY COMMISSION



Peter A. Morris, Director
Division of Reactor Licensing

Attachment:
Appendix A - Technical Specifications

Date of Issuance: **DEC 22 1969**

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-237

COMMONWEALTH EDISON COMPANY

NOTICE OF ISSUANCE OF PROVISIONAL OPERATING LICENSE

Notice is hereby given that no request for a hearing by the applicant or petition for leave to intervene by any interested person having been filed following publication of the notice of proposed action in the FEDERAL REGISTER, the Atomic Energy Commission (the Commission) has issued Provisional Operating License No. DPR-19 to Commonwealth Edison Company (Commonwealth Edison) authorizing the licensee to possess, use, and operate the Dresden Nuclear Power Station Unit 2, a single cycle, boiling, light water reactor, on Commonwealth Edison's site in Grundy County, Illinois. The license authorizes Commonwealth Edison to operate the reactor at steady state thermal power levels not to exceed 2527 megawatts, in accordance with the provisions of the license and the Technical Specifications (Appendix A) appended thereto.

The Commission has inspected the facility and has determined that it has been constructed in accordance with the application, as amended, and the provisions of Provisional Construction Permit No. CPPR-18.

The provisional operating license was issued as set forth in the Notice of Proposed Issuance of Provisional Operating License published in the FEDERAL REGISTER on October 23, 1969, 34 F.R. 17211, except for the correction of certain typographical and clerical errors in the Technical Specifications, as set forth in the errata sheet attached to the Technical Specifications appended to Provisional Operating License No. DPR-19.

A copy of License No. DPR-19, complete with Technical Specifications, is available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C. Copies of the license and a related safety evaluation prepared by the Division of Reactor Licensing may be obtained at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C., or upon request addressed to the Atomic Energy Commission, Washington, D. C. 20545, Attention: Director, Division of Reactor Licensing.

Dated at Bethesda, Maryland, this 22nd day of December , 1969 .

FOR THE ATOMIC ENERGY COMMISSION



Peter A. Morris, Director
Division of Reactor Licensing