



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-10

L I C E N S E

License No. DPR-2, as amended

1. This license applies to the dual-cycle, boiling water type reactor designated by Commonwealth Edison Company (hereinafter referred to as "Commonwealth Edison") as the "Dresden Nuclear Power Station" (hereinafter referred to as "the facility") which is owned by Commonwealth Edison and located in Grundy County, Illinois, and described in Commonwealth Edison's application attested March 31, 1955, and amendments to the application attested June 24, 1955, February 1, 1956, March 9, 1956, March 15, 1956, June 6, 1957, June 12, 1957, July 26, 1957, September 3, 1957, November 5, 1957, December 17, 1957, May 26, 1958, June 5, 1958, August 25, 1958, December 26, 1958, December 30, 1958, January 6, 1959, February 6, 1959, as revised August 12, 1959, April 3, 1959, May 15, 1959, and June 17, 1959, (hereinafter collectively referred to as "the application") and for which Construction Permit No. CPPR-2 was issued by the Atomic Energy Commission (hereinafter referred to as "the Commission") on May 4, 1956, and amended on March 31, 1958.
2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Commonwealth Edison:
  - a. Pursuant to Section 104(b) of the Atomic Energy Act of 1954, as amended, (hereinafter referred to as "the Act") and Title 10, CFR, Chapter 1, Part 50, "Licensing of Production and Utilization Facilities", to possess and operate the facility as a utilization facility;
  - b. Pursuant to the Act and Title 10, CFR, Chapter 1, Part 70, "Special Nuclear Material", to receive, possess and use 2280 kilograms of contained uranium 235 as fuel for operation of the facility; and
  - c. Pursuant to the Act and Title 10, CFR, Chapter 1, Part 30, "Licensing of Byproduct Material", to possess, but not to separate, such byproduct material as may be produced by operation of the facility.
3. This license shall be deemed to contain and be subject to the conditions specified in Section 50.54 of Part 50 and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and rules, regulations and orders of the Commission now or hereafter in effect; and is subject to any additional conditions specified or incorporated below:

8010170 738

a. Operating Requirements

- (1) Commonwealth Edison Company is authorized to operate the facility at power levels up to, but not in excess of, 630 megawatts (thermal).
- (2) Subject to the provisions of this paragraph 3., Commonwealth Edison shall operate the facility only in accordance with the design and performance specifications and operating limits and procedures described in the application and Appendix "A" to this license.
- (3) In any case where the procedures or specifications described in the application are not consistent with the requirements of this paragraph 3. and Appendix "A" to this license, the requirements contained in this paragraph 3, and Appendix "A" shall govern.
- (4) Commonwealth Edison shall not change or modify the design or performance specifications or operating limits or procedures described in Appendix "A" to this license until after a description and hazards evaluation report of the proposed change has been filed with the Commission by Commonwealth Edison and the Commission shall have authorized such change in writing.
- (5) Except with respect to the specifications, limits and procedures contained in Appendix "A", Commonwealth Edison may change or modify the design or performance specifications or operating limits or procedures described in the application only in accordance with the following procedures:

Commonwealth Edison shall provide the Commission with a description and hazards evaluation report of the proposed change. If, within fifteen days after the date of acknowledgment by the Division of Licensing and Regulation of receipt of such report, the Commission does not issue any notice to Commonwealth Edison to the contrary, Commonwealth Edison may make such change without further approval. If, within fifteen days after the date of acknowledgement by the Division of Licensing and Regulation of receipt of such report, the Commission notifies Commonwealth Edison that the hazards involved may be greater than or materially different from those analyzed in the Hazards Summary Report, or that the proposed change involves a material alteration of the facility, the change shall not be made until after such change has been authorized in writing by the Commission. If a license amendment is necessary to authorize the proposed change, the report submitted by Commonwealth Edison shall be deemed to constitute an application for a license amendment. As used in this paragraph 3., a proposed change shall be deemed to involve hazards which may be "greater than, or different from, those analyzed in the Hazards Summary Report" if (1) the probability of any type of accident analyzed in the Hazards Summary Report might be increased, or (2) the possible consequences of any type of accident analyzed in the Hazards Summary Report might be increased, or (3) such change might create a credible probability of an accident

of a type different from, and the possible consequences of which would not be of a lesser magnitude than each of, the accidents analyzed in the Hazards Summary Report. The "Hazards Summary Report" as used in this paragraph 3. is defined as the "Enclosure Section" attested June 12, 1957, the "Preliminary Hazards Summary Report" attested September 3, 1957, and amendments 1, 2, 3, and 4 thereto respectively attested May 26, 1958, August 25, 1958, December 30, 1958, and February 6, 1959, as revised August 12, 1959, and the "Operating Procedures and Emergency Plans" attested June 5, 1958, submitted by Commonwealth Edison.

b. Records

In addition to those otherwise required under this license and applicable regulations, Commonwealth Edison shall keep the following records:

- (1) Reactor operating records, including power levels and periods of operation at each power level.
- (2) Records showing the radioactivity released or discharged into the air or water beyond the effective control of Commonwealth Edison as measured at the point of such release or discharge.
- (3) Records of emergency shutdowns, including reasons therefor.
- (4) Records containing a description of each change made pursuant to paragraph 3.a. (5) hereof.

c. Reports

- (1) Commonwealth Edison shall make an immediate report in writing to the Commission of any significant indication or occurrence of an unsafe condition relating to the operation of the facility.
- (2) Commonwealth Edison shall submit to the Commission a quarterly report for each quarter during the year commencing October 1, 1960, provided that the first report shall cover activities at the licensed facility since the period covered by applicant's Report No. 4, "Full Rated Power Test Operation"; and such quarterly reports shall be filed within 30 days after the end of the quarter covered by the report. Thereafter Commonwealth Edison shall file an annual report. The first such annual report shall be filed within thirteen months after the filing of the fourth quarterly report referred to above. Each report filed under this paragraph shall include a description of operating experience pertinent to safety and changes in facility design, performance characteristics and operating procedures during the reporting period.

4. Pursuant to Section 50.60 of the regulations in Title 10, Chapter 1, CFR, Part 50, the Commission has allocated to Commonwealth Edison for use in the operation of the facility 9388 kilograms of uranium 235

contained in uranium enriched to approximately 1.5% and 1.7% in the isotope uranium 235. Estimated schedules of special nuclear material transfers to Commonwealth Edison and returns to the Commission are contained in Appendix "B" which is attached hereto. Shipments by the Commission to Commonwealth Edison in accordance with column (2) in Appendix "B" will be conditioned upon Commonwealth Edison's return to the Commission of material substantially in accordance with column (3) of Appendix "B".

5. This license DPR-2, as amended, shall become effective as of the date of issuance and shall expire on May 4, 1996.

FOR THE ATOMIC ENERGY COMMISSION

H. L. Price

Director  
Division of Licensing and Regulation

Attachments:

1. Appendix "A"
2. Appendix "B"

Date of Issuance: OCT 14 1960