



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

UNION CARBIDE CORPORATION

DOCKET NO. 50-54

AMENDED FACILITY OPERATING LICENSE

Amendment No. 14  
License No. R-81

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Union Carbide Corporation (the licensee) dated December 10, 1973, as supplemented, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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 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 licensee is technically and financially qualified to engage in the activities authorized by this operating license in accordance with the regulations of the Commission;
  - E. The licensee has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements", of the Commission's regulations;
  - F. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;

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- G. 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;
  - H. The receipt, possession, and use of byproduct and special nuclear materials as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30 and 70, including 10 CFR Sections 30.33, 70.23, and 70.31; and
  - I. Publication of notice of this amendment is not required since it does not involve a significant hazards consideration nor amendment of a license of the type described in 10 CFR Section 2.106 (a)(2).
2. Facility Operating License No. R-81 issued to Union Carbide Corporation is hereby amended to read as follows:
- A. The license applies to the pool-type nuclear reactor (the facility) owned by Union Carbide Corporation. The facility is located on the licensee's site in Sterling Forest, Orange County, New York, and is described in the licensee's application dated February 11, 1957, and subsequent amendments and supplements thereto, including the application for amendment dated December 10, 1973, and supplements thereto.
  - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Union Carbide Corporation:
    - (1) Pursuant to Section 104c of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities", to possess, use, and operate the facility at the designated location in Sterling Forest, New York, in accordance with the procedures and limitations set forth in this license;
    - (2) Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material", to receive, possess, and use up to 40.0 kilograms of contained uranium-235 in connection with operation of the facility; and
    - (3) Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Licensing of Byproduct Material", to possess and use (a) an antimony-beryllium sealed source of up to 50 curies for reactor startup, and (b) a strontium-90 sealed source of up to 300 microcuries as a nuclear instru-

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ment calibration source in connection with operation of the reactor; and to possess, but not separate, such byproduct material as may be produced by the operation of the facility.

- C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

The licensee is authorized to operate the facility at steady state reactor power levels not in excess of 5,000 kilowatts (thermal).

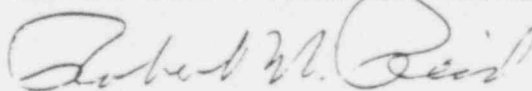
(2) Technical Specifications

The Technical Specifications contained in Appendix A attached hereto are hereby incorporated in this license. The licensee shall operate the facility in accordance with the Technical Specifications.

- D. The licensee shall maintain in effect and fully implement all provisions of the Commission-approved physical security plan, including amendments and changes made pursuant to the authority of 10 CFR 50.54(p). The approved security plan consists of the document, withheld from public disclosure pursuant to 10 CFR 2.790(d), entitled "Physical Security Plan for the Union Carbide Corporation Research Reactor" submitted by the licensee's letter dated October 27, 1977, and as modified in an enclosure to the licensee's letter dated January 26, 1978.

- E. This amended license becomes effective within four (4) months of the date of issuance and shall expire at midnight, June 30, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief  
Operating Reactors Branch #4  
Division of Operating Reactors

Attachment:  
Appendix A Technical Specifications

Date of Issuance: May 17, 1979

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