



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

UNION CARBIDE SUBSIDIARY B, INC.

DOCKET NO. 50-54

AMENDED FACILITY OPERATING LICENSE

Amendment No. 21
License No. R-81

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for facility license renewal by the Union Carbide Subsidiary B, Inc., dated May 23, 1980 as supplemented, 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 construction of the facility was completed in substantial conformance with Construction Permit No. CPRR-18, dated May 8, 1959, the provisions of the Act, and the rules and regulations of the Commission;
 - C. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - D. There is reasonable assurance (i) that the activities authorized by this amended license 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;
 - E. The licensee is technically and financially qualified to engage in the activities authorized by this amended license in accordance with the rules and regulations of the Commission;
 - F. The licensee has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements,"
 - G. Union Carbide Subsidiary B, Inc is a United States corporation. The issuance of this amended license will not be inimical to the common defense and security or to the health and safety of the public;
 - H. The issuance of this amended license is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and

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- I. The receipt, possession and use of the byproduct and special nuclear materials as authorized by this amended license will be in accordance with the Commission's regulations in 10 CFR Parts 30 and 70, including Sections 30.33, 70.23 and 70.31.
2. Facility Operating License No. R-81 issued to Union Carbide Subsidiary B, Inc. is hereby amended to read as follows:
 - A. This amended license applies to the pool-type nuclear reactor (hereinafter referred to as the reactor) owned by Union Carbide Subsidiary B, Inc. (the licensee) located on the licensee's site in Sterling Forest, Orange County, New York.
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Union Carbide Subsidiary B, Inc.:
 - (1) Pursuant to Section 104c of the Act and 10 CFR Part 50, "Domestic 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 described in the application and in this amended license;
 - (2) Pursuant to the Act and 10 CFR Part 70, "Domestic Licensing of 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 Domestic 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 instrument 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 amended license shall be deemed to contain and is subject to the conditions specified in Parts 20, 30, 50, 51, 55, 70 and 73 of 10 CFR, Chapter I, to all applicable provisions of the Act, and to the rules, regulations and orders of the Commission, now or hereafter in effect, and to the additional conditions specified below:

(1) Maximum Power Level

The licensee is authorized to operate the reactor at levels not in excess of 5 megawatts (thermal).

(2) Technical Specifications

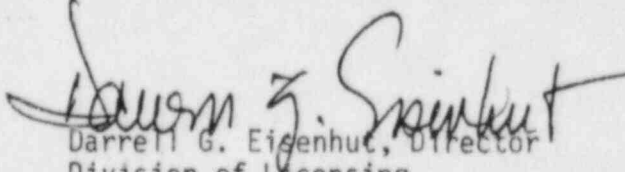
The Technical Specifications contained in Appendix A, as revised through Amendment 21, are hereby incorporated into the amended license. The licensee shall operate the facility in accordance with the Technical Specifications.

(3) Physical Security Plan

The licensee shall maintain and fully implement all provisions of the Commission-approved physical security plan, including changes made pursuant to the authority of 10 CFR 50.54(p). The approved physical security plan consists of documents withheld from public disclosure pursuant to 10 CFR 73.21 entitled, "Physical Security Plan for Union Carbide Corporation Facility at Tuxedo, New York," Revision 3, dated April 21, 1983, as modified by Revision 4, dated May 19, 1983.

3. This amended license is effective as of the date of issuance and shall expire at midnight June 30, 2000.

FOR THE NUCLEAR REGULATORY COMMISSION


Darrell G. Eisenhower, Director
Division of Licensing

Enclosure:
Appendix A Technical
Specifications

Date of Issuance: September 28, 1984