



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

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-123

UNIVERSITY OF MISSOURI, ROLLA

RENEWAL OF THE FACILITY OPERATING LICENSE

Amendment No. 8
License No. R-79

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by the University of Missouri, Rolla, dated December 14, 1984, 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. Construction of the facility was completed in substantial conformity with Construction Permit No. CPRR-44 dated November 20, 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 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 operating license in accordance with the rules and regulations of the Commission;
 - F. The licensee is a nonprofit educational institution and will use the facility for the conduct of educational activities, and has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
 - 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;
 - H. The issuance of this license is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and

- I. The receipt, possession and use of the 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 Sections 30.33, 70.23 and 70.31.
2. Facility Operating License No. R-79 is hereby amended in its entirety to read as follows:
 - A. This license applies to the pool-type nuclear reactor (hereinafter the reactor) which is owned by The Curators of the University of Missouri (hereinafter the licensee) located on the University of Missouri campus at Rolla, Missouri, and described in the application for renewal dated October 15, 1979, as supplemented (hereinafter the application).
 - B. Subject to the conditions and requirements incorporated herein, the Nuclear Regulatory Commission (hereinafter the Commission) hereby licenses The Curators of the University of Missouri:
 1. Pursuant to Section 104c of the Atomic Energy Act of 1954, as amended (hereinafter the Act), and 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," to possess, use and operate the reactor as a utilization facility at the designated location in Rolla, Missouri.
 2. Pursuant to the Act and 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material," to receive, possess and use up to a maximum of 9.9 kilograms of uranium 235 at various enrichments and up to a maximum of 200 grams of plutonium-239 in the form of sealed plutonium-beryllium-neutron sources in connection with the operation of the reactor. Without exceeding the foregoing maximum possession limits, the maximum limits on specific enrichments of U-235 are as follows:

<u>Maximum U-235</u>	<u>% Enrichment</u>
4.95 kg	< 20
4.95 kg	≥ 20

3. Pursuant to the Act and Title 10 CFR Part 30, "Domestic Licensing of Byproduct Material," to possess, but not to separate, such byproduct material as may be produced by operation of the reactor.
- C. This 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 power levels not in excess of 200 kilowatts thermal.
 2. Technical Specifications
The technical specifications contained in Appendix A, as revised through Amendment No. 8, are hereby incorporated in this 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 amendments and changes made pursuant to the authority of 10 CFR 50.54(p). The approved security plan consists of documents withheld from public disclosure pursuant to 10 CFR 2.790, entitled "Physical Security Plan for Non-Power Nuclear Reactor for University of Missouri - Rolla," submitted by letter dated December 14, 1979, as revised by letters dated June 2, 1981 and July 2, 1981.

- D. This license is effective as of the date of issuance and shall expire November 20, 1999.

FOR THE NUCLEAR REGULATORY COMMISSION


Hugh L. Thompson, Jr., Director
Division of Licensing

Enclosure:
Appendix A Technical
Specifications

DATE OF ISSUANCE: April 16, 1985