March 13, 2008

Mr. P. M. Whaley, Manager
Kansas State University Research Reactor
Department of Mechanical and Nuclear Engineering
112 Ward Hall
Kansas State University
Manhattan, KS 66506-2500

SUBJECT: ISSUANCE OF RENEWED FACILITY LICENSE NO. R-88
KANSAS STATE UNIVERSITY TRIGA RESEARCH REACTOR
(TAC NO. MC9031)

Dear Mr. Whaley:

The U.S. Nuclear Regulatory Commission has issued renewed Facility License No. R-88 for the Kansas State University TRIGA Research Reactor in response to the application for renewal dated September 12, 2002, and supplemented as indicated in the attached Renewal of Facility License. This renews the operating license for 20 years from its date of issuance.

In accordance with our practice, we have restated the license in its entirety, incorporating all the changes and amendments made since issuance of the original license.

Enclosed with the renewed license is a copy of the Notice of Renewal that is being sent to the Office of the Federal Register for publication, and the Safety Evaluation Report associated with the renewal. The Environmental Assessment was sent to you under separate cover. If you have any questions, please contact me at 301-415-1631.

Sincerely,

/RA/

Daniel E. Hughes, Project Manager
Research and Test Reactors Branch A
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Docket No. 50-188

Enclosures:

1. Renewed Facility License No. R-88
2. Safety Evaluation Report
3. Notice of Renewal

cc w/enclosures
See next page

cc:

Office of the Governor
State of Kansas
Topeka, KS 66612

Thomas A. Conley, RRPJ, CHP,
Section Chief Radiation and Asbestos Control
KS Dept of Health & Environment
1000 SW Jackson, Suite 320
Topeka, KS 66612-1366

Mayor of Manhattan
P.O. Box 748
Manhattan, KS 66502

Test, Research, and Training
Reactor Newsletter
University of Florida
202 Nuclear Sciences Center
Gainesville, FL 32611

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DATE	1/16/08	1/16/08	2/20/08	2/20/08	3/13/08	2/28/08	3/13/08	3/13/08

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UNITED STATES NUCLEAR REGULATORY COMMISSION

RENEWAL OF FACILITY LICENSE NO. R-88

DOCKET NO. 50-188

KANSAS STATE UNIVERSITY NUCLEAR REACTOR FACILITY

Renewed License No. R-88

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:

   A. The application for license renewal of Facility License No. R-88, filed by the Kansas State University, Manhattan, Kansas (the licensee) dated September 12, 2002, as supplemented on November 11, 2002; November 13, 2002; December 21, 2004; July 6, 2005; September 27, 2005; March 20, 2006; March 30, 2006; June 28, 2006; September 28, 2006; May 17, 2007; June 4, 2007; September 12, 2007; October 11, 2007; and February 6, 2008 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 Title 10, Chapter I, Code of Federal Regulations (10 CFR);

   B. The Kansas State Nuclear Reactor Facility (the facility) will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;

   C. There is reasonable assurance (i) that the activities authorized by this renewal 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 rules and regulations;

   D. 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;

   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 license will not be inimical to the common defense and security or to the health and safety of the public;

   G. 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

H. 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, 40, and 70, including Sections 30.33, 70.23 and 70.33.

2. Facility License No. R-88 is hereby renewed in its entirety to read as follows:

A. This license applies to the TRIGA research reactor (herein "the reactor"), owned by the Kansas State University and located on its campus in Manhattan, Kansas, and is described in the licensee's application for renewal dated September 12, 2002, as supplemented.

B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses the Kansas State University:

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 reactor as a utilization facility at the designated location in accordance with the procedures and limitations described in the application and in this license;

2. Pursuant to the Act and 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material," to receive, possess and use up to 4.20 kilograms of contained uranium-235 at enrichments less than 20% in connection with operation of the reactor and up to 90 grams of uranium-235 at any enrichment for fission chambers and reactor experiments.

3. Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material," and Part 70, "Domestic Licensing of Special Nuclear Material," to receive, possess, and use a 2-curie sealed americium-beryllium neutron source and a 7-curie sealed polonium-beryllium neutron source (Monsanto Item NS-1, Serial No. N-693) for reactor startup; and to possess, use, but not separate, such byproduct material and special nuclear material as may be produced by the operation of the reactor.

C. This license shall be deemed to contain and be subject to the conditions specified in Parts 20, 30, 40, 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 is subject to the additional conditions specified or incorporated below:

1. <u>Maximum Power Level</u>

The licensee is authorized to operate the reactor at steady-state power levels up to a maximum of 1,250 kW (thermal) and in the pulse mode with reactivity insertions not to exceed $3.00 with all stainless-steel clad fuel elements.

2. Technical Specifications

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

3. This license is effective as of March 19, 2008 and shall expire at midnight 20 years from that date.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

J. E. Dyer, Director
Office of Nuclear Reactor Regulation

Enclosure: Appendix A, Technical Specifications

Date of Issuance: March 13, 2008

APPENDIX A

TO RENEWED FACILITY LICENSE NO. R-88

TECHNICAL SPECIFICATIONS

FOR

KANSAS STATE UNIVERSITY TRIGA REACTOR

DOCKET NO. 50-188