



UNIVERSITY OF MISSOURI

Research Reactor Facility

Research Park
Columbia, Missouri 65211
Telephone (314) 882-4211

May 21, 1986

Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

REFERENCE: Docket 50-186
University of Missouri

SUBJECT: Change to University of Missouri
Research Reactor Facility
License No. R-103.

Dear Sir:

The University of Missouri Research Reactor (MURR) requests an amendment to the Facility License No. R-103. We request a change be made to Section 2.B.(4) regarding allowed amounts of source material. Our proposed amendment is:

2.B.(4) Pursuant to the Act and 10CFR40, "Licensing of Source Material", to receive, possess, and use in connection with the operation of the reactor up to 20 kilograms each of normal uranium and thorium and up to 100 kilograms of depleted uranium for instructional and experimental purposes.

Our present license allows possession of up to 20 kilograms each of normal uranium, depleted uranium, and thorium. Our R-103 current source material inventory includes 0 kg of normal uranium, 18 kg of depleted uranium, and 2 kg of thorium. (8 kg of normal uranium at MURR is held under the University License SNM-247.)

8605290028 860521
PDR ADDOCK 05000186
P PDR



COLUMBIA KANSAS CITY ROLLA ST. LOUIS

an equal opportunity institution

A020
1/1

Director
May 21, 1986
Page 2

Dr. R. M. Brugger, Director of MURR, wishes to acquire a bar of depleted uranium approximately 1.1 inches in diameter and 40 inches long with mass 12 kg. The purpose of this is to filter $< .01$ eV and > 10 . eV neutrons from a beam to study the effects of few-eV neutrons for therapy. We are requesting a large enough increase in our allowed depleted uranium inventory to cover this and possible future filter acquisitions.

Sincerely,

Roland A. Hultsch

Roland A. Hultsch
Reactor Physicist

Endorsement:
Reviewed and Approved

Robert M. Brugger

Robert M. Brugger
Director

Enclosures

Mary Martin

MARY MARTIN
NOTARY PUBLIC STATE OF MISSOURI
BOONE CO.
MY COMMISSION EXP. MAR. 1, 1990
ISSUED THRU MISSOURI NOTARY ASSOC.