

July 14, 1992

Docket No. 50-186

Dr. James J. Rhyne, Director  
Research Reactor Facility  
University of Missouri-Columbia  
Research Park  
Columbia, Missouri 65211

Dear Dr. Rhyne:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

We are continuing our review of your application for amendment of Amended Facility License No. R-103 for the University of Missouri-Columbia Research Reactor (MURR) which you submitted on July 2, 1992. During our review of your application, questions have arisen for which we require additional information and clarification. Please provide responses to the enclosed Request for Additional Information within 30 days of the date of this letter. Following receipt of the additional information, we will continue our evaluation of your application. If you have any questions regarding this review, please contact me at (301) 504-1127.

In accordance with 10 CFR 50.30(b), your response must be executed in a signed original under oath or affirmation.

This requirement affects nine or fewer respondents and, therefore, is not subject to Office of Management and Budget review under P. L. 96-511.

Sincerely,  
- original signed by -  
Alexander Adams, Jr., Senior Project Manager  
Non-Power Reactors, Decommissioning and  
Environmental Project Directorate  
Division of Reactor Projects - III/IV/V  
Office of Nuclear Reactor Regulation

cc w/enclosures:  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script that reads "Alexander Adams, Jr.".

Alexander Adams, Jr., Senior Project Manager  
Non-Power Reactors, Decommissioning and  
Environmental Project Directorate  
Division of Reactor Projects - III/IV/V  
Office of Nuclear Reactor Regulation

cc w/enclosures:  
See next page

University of Missouri  
at Columbia

Docket No. 50-186

cc:

University of Missouri  
Associate Director  
Research Reactor Facility  
Columbia, Missouri 65201

A-95 Coordinator  
Division of Planning  
Office of Administration  
P. O. Box 809, State Capitol Bldg.  
Jefferson City, Missouri 65101

REQUEST FOR ADDITIONAL INFORMATION

UNIVERSITY OF MISSOURI-COLUMBIA

DOCKET NO. 50-186

1. To clarify the special nuclear material (SNM) authorization paragraph, 2.B.(2) of Amended Facility License No. R-103, please add a phase to the paragraph that authorizes up to 45 kilograms of contained uranium-235 of any enrichment. Also add to the license condition a phase that authorizes you to possess, but not separate, such special nuclear material as may be produced by the operation of the facility. With a number of facilities converting to low enriched fuel, the authority to possess high enriched uranium must be clearly stated in the license. Also, the authority to possess, but not separate, SNM produced by the reactor has, in the past, been assumed. This license condition will ensure that this assumption is clearly stated. An example of a license paragraph with these conditions is attached as an example.

- (2) Pursuant to the Act and 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material," to receive, possess, and use up to 5.8 kilograms of contained uranium-235 enriched to less than 20 percent in the isotope uranium-235 in the form of reactor fuel; up to 20 grams of contained uranium-235 of any enrichment in the form of fission chambers; up to 10 milligrams of uranium-233, 50 milligrams of contained uranium-235 of any enrichment, 10 milligrams of plutonium-240, 40 milligrams of plutonium-239, and 10 milligrams of plutonium-241 in the form of foils; 1 gram of plutonium-239, and 10 grams of contained uranium-235 of any enrichment in the form of reference materials; and to possess, but not separate, such special nuclear material as may be produced by the operation of the facility.