

April 20, 1994

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 amendment request for Amended Facility License No. R-103 for the University of Missouri at Columbia Research Reactor which you submitted on March 28, 1994. During our review of your amendment request, 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 amendment request. 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 and Decommissioning  
Project Directorate  
Division of Operating Reactor Support  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

April 20, 1994

Docket No. 50-186

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Research Reactor Facility  
University of Missouri-Columbia  
Research Park  
Columbia, Missouri 65211

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Sincerely,

A handwritten signature in cursive script, appearing to read "Alexander Adams, Jr.".

Alexander Adams, Jr., Senior Project Manager  
Non-Power Reactors and Decommissioning  
Project Directorate  
Division of Operating Reactor Support  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
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 AT COLUMBIA RESEARCH REACTOR

DOCKET NO. 50-186

1. Your proposed wording for paragraph 2.B.(2)(a) of Amended Facility License No. R-103 reads in part:

The limit for possession, receipt, and use of contained uranium-235 is temporarily increased until...

Paragraph 2.B.(2)(a) of Amended Facility License No. R-103 reads in part:

The limit for possession, receipt, and use of contained uranium-235 of any enrichment is temporarily increased, until...

Please justify the additional changes you are proposing or amend your proposed wording to correspond with your license.

2. On your graph that shows projected U-235 possession, a note states that fuel usage at MURR has increased from 24 to 26 elements per year. Please explain this increase in fuel usage.
3. Your amendment request states that the changes you are requesting will not require changes to the Physical Security Plan. Please confirm that a sufficient amount of stored fuel will remain self protecting for the possession extension period to meet the requirements of your Physical Security Plan.
4. Your amendment request states that the criticality aspects of fuel storage at MURR are not changed by the request. Please provide a discussion of storage racks, k-effective, and stored fuel cooling for the maximum amount of fuel that will be in storage during the period of the proposed increased possession extension.