

February 11, 1987

Docket No. 50-186

Dr. Robert M. Brugger, Director  
Research Reactor Facility  
University of Missouri  
Columbia, Missouri 65211

Dear Dr. Brugger:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

We are continuing our review of your application, dated September 26, 1986, for a unique purpose exemption pursuant to 10 CFR 50.64(c)(1) for your reactor facility and find we require additional information. Please provide a written response to the enclosed question no later than thirty days from the date of this letter. Following receipt of this information we will continue our review.

If you have any questions concerning this request, please contact me at (301) 492-8206.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

original signed by  
Robert E. Carter, Project Manager  
Standardization and Special  
Projects Directorate  
Division of PWR Licensing-B  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
See next page

DISTRIBUTION:

Docket File

TDorian, OGC-BETH

Local PDR  
NRC PDR  
PBSS Reading  
PNoonan  
JDosa  
OLynch  
HBerkow  
RCarter

8702180073 870211  
PDR ADOCK 05000186  
P PDR

PBSS  
PNoonan  
02/9/87

PBSS  
JDosa:cw  
02/9/87

PBSS  
OLynch  
02/11/87

PBSS  
HBerkow  
02/11/87



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

February 11, 1987

Docket No. 50-186

Dr. Robert M. Brugger, Director  
Research Reactor Facility  
University of Missouri  
Columbia, Missouri 65211

Dear Dr. Brugger:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

We are continuing our review of your application, dated September 26, 1986, for a unique purpose exemption pursuant to 10 CFR 50.64(c)(1) for your reactor facility and find we require additional information. Please provide a written response to the enclosed question no later than thirty days from the date of this letter. Following receipt of this information we will continue our review.

If you have any questions concerning this request, please contact me at (301) 492-8206.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

A handwritten signature in cursive script that reads "Robert E. Carter".

Robert E. Carter, Project Manager  
Standardization and Special  
Projects Directorate  
Division of PWR Licensing-B  
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

Attorney General  
Supreme Court Building  
Jefferson City, Missouri 65101



Enclosure

University of Missouri-Columbia  
Docket No. 50-186  
Unique Purpose Exemption Request  
Request for Additional Information

10 CFR §50.64(b)(3) requires that any licensee granted a unique purpose exemption from the use of LEU fuel must use HEU fuel of enrichment as close to 20% as is available and acceptable to the Commission.

If fuel of any enrichment from 20% to 93% were available and you were granted a unique purpose exemption, what would be the lowest enrichment fuel that your reactor could use and still reasonably accomplish its primary projects, programs, or commercial activities? In your answer, please justify your final choice of enrichment based upon the physical and technical limitations of your reactor and its supporting programs.