



**Research Reactor Center**  
University of Missouri-Columbia

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August 31, 2006

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Reference: University of Missouri-Columbia Research Reactor (MURR)  
Docket No. 50-186, License No. R-103

Subject: Application for License Renewal for the University of Missouri-Columbia  
Research Reactor as per 10 CFR 2.109

The Curators of the University of Missouri hereby submit this application to renew the Class 104 (c) Operating License, R-103, for the University of Missouri-Columbia Research Reactor (MURR) for an additional 20 years. The applicant is a non-profit educational institution and a part of the state government of the State of Missouri.

This license renewal application consists of the following enclosed and referenced documents that support the license renewal request.

Enclosed documents:

- An updated Safety Analysis Report following NUREG 1537 format
- An updated Technical Specifications as Appendix A to the license
- An updated Environmental Report
- Financial qualifications incorporated into Chapter 15 of the Safety Analysis Report, including a University of Missouri System Financial Report for Fiscal Year 2005

Referenced Documents:

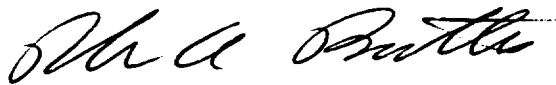
- Operator Re-qualification Program - Currently on file, no changes requested
- Emergency Plan - Currently on file, no changes requested
- Physical Security Plan - Currently on file, no changes requested

MURR reanalyzed postulated accidents and transients using the latest analysis programs. The updated analyses confirm the conclusions of the analyses performed when the reactor was first licensed and demonstrate that the continued operation of MURR will not present any undue hazard to any member of the general public or staff.

A020

If you have any questions, please contact me on 573-882-5271.

I certify under penalty of perjury that the foregoing is true and correct.



Ralph A. Butler, Director  
University of Missouri-Columbia Research Reactor Center

- c: w/ three hardcopies and three CDs  
Al Adams, USNRC
  
- c: w/o enclosures  
James S. Coleman, Vice-Chancellor for Research, University of Missouri-Columbia  
Brian L. Foster, Provost, University of Missouri-Columbia  
Marvin E. Wright, General Counsel, University of Missouri  
Elson S. Floyd, President, University of Missouri

State of Missouri  
County of Boone

On this 31<sup>ST</sup> day of August in the year 2006,  
before me, the undersigned notary public, personally appeared  
Ralph A. Butler, known to me to be the  
person(s) whose name(s) is/are subscribed to the within  
instrument and acknowledged that he/she/they executed the  
same for the purposes therein contained. In witness whereof, I  
hereunto set my hand and official seal.



Notary Public

