

November 15, 2017

Mr. Matt Sanford
Interim Reactor Facility Director
University of Missouri-Columbia
Research Reactor Center
1513 Research Park Drive
Columbia, MO 65211

SUBJECT: UNIVERSITY OF MISSOURI AT COLUMBIA – RESPONSE TO REQUEST FOR REVIEW OF THE HIGHLY ENRICHED TO LOW-ENRICHED URANIUM CONVERSION PRELIMINARY SAFETY ANALYSIS REPORT FOR THE UNIVERSITY OF MISSOURI-COLUMBIA RESEARCH REACTOR (CAC A11010/05000186/L-2017-LLA-0264)

Dear Mr. Sanford:

By letter dated August 18, 2017 (Agencywide Documents Access and Management System Accession No. ML17312A370), the University of Missouri-Columbia Research Reactor (MURR) staff submitted a preliminary safety analysis report (PSAR) for the conversion of MURR from highly enriched uranium to low-enriched uranium (LEU) fuel, to the U.S. Nuclear Regulatory Commission (NRC) staff for review and comment. This letter provides the results of the NRC staff's initial review, which was performed to determine if there is sufficient technical information in scope and depth to allow the NRC staff to complete its review. As noted in MURR's letter, the LEU fuel has not been approved for use, and MURR is not prepared to convert at this time. As such, no licensing action is being requested by MURR at this time.

The NRC staff has reviewed your PSAR and concluded that it does provide technical information in sufficient detail and will allow the NRC staff to perform a review following the guidance of NUREG-1537, "Guidelines for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors," Parts 1 and 2, Chapter 18, "Highly Enriched to Low-Enriched Conversions."

M. Sanford

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If you have any questions regarding this review, please contact me at (301) 415-3398, or by electronic mail at Cindy.Montgomery@nrc.gov.

Sincerely,

/RA/

Cindy Montgomery, Project Manager
Research and Test Reactors Licensing Branch
Division of Licensing Projects
Office of Nuclear Reactor Regulation

Docket No. 50-186
License No. R-103

Enclosure:
As stated

cc: See next page

cc:

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