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October 12, 2004

Mr. Alexander Adams, Jr.
U.S. Nuclear Regulatory Commission
Mail Stop O12-G13
Washington, DC 20555-0001

SUBJECT:

University of Missouri Research Reactor Facility

Docket No. 50-186

Monthly Operations Summary

Dear Mr. Adams:

Enclosed is a copy of MURR's Monthly Operations Summary for September 2004. If you have any questions, please contact me at (573) 882-5276.

Sincerely,

Leslie Foyto Reactor Manager

LM/sm

cc. Craig Bassett

Enclosure: September Operation Summary - 4 pages

JEZY AOZO

## UNIVERSITY OF MISSOURI RESEARCH REACTOR

OPERATIONS MONTHLY SUMMARY

September 2004

Prepared by: Operations Staff

## INTRODUCTION

The reactor operated continuously in September with the following exceptions: 4 shutdowns for scheduled maintenance and refueling; 1 unscheduled shutdown.

## MAINTENANCE ACTIVITIES

9/6/04	Refueled - removed core 04-41, loaded core 04-42. Performed backflush on the Pool Coolant System Heat Exchanger.
9/13/04	Refueled - removed core 04-42, loaded core 04-43. Completed Modification Record 88-11, Add. 1; "Upgrade of Uninterruptible Power Supply Alternate Source."
9/20/04	Refueled - removed core 04-43, loaded core 04-44. Completed Modification Record 04-4; "Reactor Control Console Upgrade." Replaced isolator on Nuclear Instrumentation Signal Processor Drawer No. 1.
9/25/04	Refueled - removed core 04-44, loaded core 04-45. Replaced cabling and fission chamber detector for Nuclear Instrumentation Signal Processor Drawer No. 1.
9/27/04	Refueled – removed core 04-45, loaded core 04-46. Completed CP-29 (Calibration of the NMC RAK Stack Monitor)

## **UNSCHEDULED SHUTDOWNS**

<u>Date</u>	<u>No.</u>	Type	Cause
9/25/04	1174 .	Scram	Instrumentation Signal Processor Drawer No. 1 Detector Cable failure

On September 25, a reactor scram was automatically initiated when meter indications on Nuclear Instrumentation (NI) Signal Processor Drawer No. 1 pegged high, thus causing a reactor safety system trip. Troubleshooting efforts revealed a breakdown of the signal cabling insulation near the fission chamber detector located in the reactor pool. This type of failure is typical of NI detector cabling that has been installed over two years. The fission detector and its associated cabling were replaced and the drawer was verified to be operable. The reactor was refueled and subsequently returned to 10 MW operation.

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OPERATION SUMMARY FOR MONTH OF University of Missour Research Reactor Cente	er (MURR)	Sep-04		
HOURS OPERATED THIS PERIOD	E	645.97		
TOTAL HOURS OPERATED, REACTOR		261,213.05		
HOURS OPERATED AT FULL POWER, THIS	PERIOD C	644.10		
TOTAL HOURS AT FULL POWER, REACTOR		257,879.42	·	
INTEGRATED POWER THIS PERIOD		268.46	MWD	
TOTAL INTEGRATED POWER, REACTOR	. [	101,650.69	MWD	
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Submitted by:	Kustodian/Reactor Phys	icist		
Date:	16/04	·		
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