



Research Reactor Center

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September 26, 2002

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

SUBJECT: Monthly Operations Summary

Enclosed is a copy of MURR's Monthly Operations Summary for August, 2002. If you have any questions, please contact me at (573) 882-5264.

Sincerely,

Paul S. Hobbs, PE  
Reactor Manager

PSH/lmcg  
cc. Craig Bassett  
Enclosure

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A020

*UNIVERSITY OF MISSOURI  
RESEARCH REACTOR*

*OPERATIONS MONTHLY SUMMARY*

*AUGUST 2002*

*Prepared by:  
Operations Staff*

## INTRODUCTION

The reactor operated continuously in August with the following exceptions: four shutdowns for scheduled maintenance and refueling; two unscheduled shutdowns.

## MAINTENANCE ACTIVITIES

8/4/02	Refueled - removed core 02-38, loaded core 02-39.
8/5/02	Refueled - removed core 02-39, loaded core 02-40.  Transferred eight spent fuel elements to the BMI cask in preparation for shipment to the Westinghouse Savannah River Site.
8/12/02	Refueled - removed core 02-40, loaded core 02-41.
8/19/02	Refueled - removed core 02-41, loaded core 02-42.
8/20/02	Refueled - removed core 02-42, loaded core 02-43.
8/26/02	Refueled - removed core 02-43, loaded core 02-44.

## UNSCHEDULED SHUTDOWNS

<u>Date</u>	<u>No.</u>	<u>Type</u>	<u>Cause</u>
8/4/02	1144	RRI	Blade 'D' not in contact with magnet

On August 4, a Rod Not In Contact With Magnet Rod Run-In was automatically initiated when Blade 'D' anvil separated from its magnet during a sample handling evolution. The Blade 'D' Full In Light was lit so the control room operator initiated a manual scram and the reactor was shutdown. It was determined that during sample handling an operator trainee had allowed a 3" silicon holder to bump Control Blade 'D' Offset Mechanism. This bump was sufficient to cause the anvil to separate from the magnet. The reactor was subsequently refueled and returned to power.

<u>Date</u>	<u>No.</u>	<u>Type</u>	<u>Cause</u>
8/20/02	1145	RRI	Blade 'A' not in contact with magnet

On August 20, a Rod Not In Contact With Magnet Rod Run-In was automatically initiated when Blade 'A' anvil separated from its magnet during a sample handling evolution. The Blade 'A' Full In Light was lit so the control room operator initiated a manual scram and the reactor was shutdown. It was determined that during sample handling an operator trainee had allowed a 4" silicon holder to bump Control Blade 'A' Offset Mechanism. This bump was sufficient to cause the anvil to separate from the magnet. The reactor was subsequently refueled and returned to power.

Both of these unscheduled shutdowns were the result of relatively new operators handling samples in close proximity to the reactor control blades. Operations personnel were reminded of the necessity of flawless attention to detail and to use care in sample handling.

**OPERATION SUMMARY FOR MONTH OF**

**Aug-02**

University of Missouri Research Reactor Center (MURR)

HOURS OPERATED THIS PERIOD

**670.56**

TOTAL HOURS OPERATED, REACTOR

**244,793.48**

HOURS OPERATED AT FULL POWER, THIS PERIOD

**667.63**

TOTAL HOURS AT FULL POWER, REACTOR

**241,538.63**

INTEGRATED POWER THIS PERIOD

**278.30**

MWD

TOTAL INTEGRATED POWER, REACTOR

**94,838.53**

MWD

Submitted by. Das K  
MWD Custodian/Reactor Physicist

Date. 9/3/02