



Research Reactor Center

University of Missouri-Columbia

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July 13, 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 June 2004. If you have any questions, please contact me at (573) 882-5276.

Sincerely,

Leslie Foyto
Reactor Manager

LM/sm
cc. Craig Bassett
Enclosure: June Operation Summary – 4 pages

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*UNIVERSITY OF MISSOURI
RESEARCH REACTOR*

OPERATIONS MONTHLY SUMMARY

June 2004

*Prepared by:
Operations Staff*

INTRODUCTION

The reactor operated continuously in June with the following exceptions: 4 shutdowns for scheduled maintenance and refueling; 2 unscheduled shutdowns.

MAINTENANCE ACTIVITIES

- 6/3/04 Refueled - removed core 04-25, loaded core 04-26.
- 6/7/04 Refueled - removed core 04-26, loaded core 04-27.
Reinstalled refurbished Secondary Coolant System Distribution Valve S-19.
Replaced cooling water lines to Primary Coolant Pumps 501A/B.
- 6/14/04 Refueled - removed core 04-27, loaded core 04-28.
- 6/16/04 Refueled - removed core 04-28, loaded core 04-29.
- 6/17/04 Shipped eight spent fuel elements to Savannah River Site.
- 6/21/04 Refueled - removed core 04-29, loaded core 04-30.
Removed the 20 element X fuel storage basket for inspection.
- 6/28/04 Refueled - removed core 04-30, loaded core 04-31.
Placed an epoxy patch on the secondary side of Primary Heat Exchanger 503A.
- 6/29/04 Loaded new pool de-ionization bed 'F'.

UNSCHEDULED SHUTDOWNS

<u>Date</u>	<u>No.</u>	<u>Type</u>	<u>Cause</u>
6/3/04	NA	Manual Scram	Sample scheduling error

On June 3, the reactor was shutdown due to a sample scheduling error which resulted in the incorrect sample being removed on the previous maintenance day. After the shutdown, the correct sample was pulled. The reactor was subsequently returned to 10 MW operation.

6/16/04	NA	Manual Scram	Inner Airlock Door Positioning Chain
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On June 16, the reactor was shutdown when it was discovered that the inner airlock door positioning chain had come off it's sprocket due to a loose set screw. Containment integrity was never lost since the outer airlock door remained closed and the seal inflated. The reactor was secured, and the inner airlock door set screw was replaced with a locking style set screw. The reactor was subsequently returned to 10 MW operation.

OPERATION SUMMARY FOR MONTH OF
University of Missouri Research Reactor Center (MURR)

Jun-04

HOURS OPERATED THIS PERIOD

644.02

TOTAL HOURS OPERATED, REACTOR

259,209.49

HOURS OPERATED AT FULL POWER, THIS PERIOD

641.69

TOTAL HOURS AT FULL POWER, REACTOR

255,883.97

INTEGRATED POWER THIS PERIOD

267.53

MWD

TOTAL INTEGRATED POWER, REACTOR

100,818.82

MWD

Submitted by:

D. as K

MWD Custodian/Reactor Physicist

Date:

7/1/04