



Research Reactor Center

University of Missouri-Columbia

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June 21, 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 May 2004. If you have any questions, please contact me at (573) 882-5276.

Sincerely,

Leslie Foyto
Reactor Manager

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

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*UNIVERSITY OF MISSOURI
RESEARCH REACTOR*

OPERATIONS MONTHLY SUMMARY

May 2004

*Prepared by:
Operations Staff*

INTRODUCTION

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

MAINTENANCE ACTIVITIES

5/3/04	Refueled - removed core 04-20, loaded core 04-21.
5/6/04	Replaced heaters in NMC Model RAK Stack Monitor motor.
5/10/04	Refueled - removed core 04-21, loaded core 04-22. Reinstalled refurbished Secondary Coolant System Flow Distribution Valve S-20. Repaired Domestic Cold Water leak downstream of Secondary Coolant System Make-up water flow meter.
5/17/04	Refueled - removed core 04-22, loaded core 04-23. Completed Modification Record 01-05 Add. 1, "Replace PT-912P and 912Q Differential Pressure Transmitters."
5/19/04	Shipped eight spent fuel elements to Savannah River Site.
5/23/04	Refueled - removed core 04-23, loaded core 04-24.
5/23/04	Completed CP-26, "Containment Building Compliance Test."
5/24/04	Replaced SF-1 (building supply fan) shaft and bearings.
5/31/04	Refueled - removed core 04-24, loaded core 04-25.

UNSCHEDULED SHUTDOWNS

<u>Date</u>	<u>No.</u>	<u>Type</u>	<u>Cause</u>
5/3/04	NA	Manual Scram	Adjustment of Nuclear Instrument Channel 4 indication

On May 3, the reactor was shutdown to adjust Nuclear Instrument Channel 4 indication. The indication was reading low and the gain potentiometer for that drawer was at its maximum setting. The dipswitches on Signal Processor drawer 1 were adjusted to bring the gain potentiometer to the middle of the operating range. The reactor was subsequently returned to 10 MW operation.

5/17/04	1172	Rod Run -In	Activating the Rod Control System Automatic Shim Circuit
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On May 17, a Rod Run-In was automatically initiated when a six-inch sample holder was being removed to introduce a very small positive reactivity addition in order to activate the Automatic Shim Circuit for training purposes just prior to the normally scheduled weekly shutdown. The sample holder was removed causing the Regulating Blade to insert to the 10% point, which initiated the Rod Run-in.

OPERATION SUMMARY FOR MONTH OF

University of Missouri Research Reactor Center (MURR)

May-04

HOURS OPERATED THIS PERIOD

665.01

TOTAL HOURS OPERATED, REACTOR

258,565.47

HOURS OPERATED AT FULL POWER, THIS PERIOD

662.55

TOTAL HOURS AT FULL POWER, REACTOR

255,242.28

INTEGRATED POWER THIS PERIOD

276.22

MWD

TOTAL INTEGRATED POWER, REACTOR

100,551.29

MWD

Submitted by: _____

Das K

MWD Custodian/Reactor Physicist

Date: _____

6/3/04