



Research Reactor Center

University of Missouri-Columbia

Research Park
Columbia, MO 65211

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November 11, 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 October 2004. If you have any questions, please contact me at (573) 882-5276.

Sincerely,

Leslie P. Foyto
Reactor Manager

LPF/djr

Enclosure

IE24
AD20

*UNIVERSITY OF MISSOURI
RESEARCH REACTOR*

OPERATIONS MONTHLY SUMMARY

October 2004

*Prepared by:
Operations Staff*

INTRODUCTION

The reactor operated continuously in October with the following exceptions:

4 shutdowns for scheduled maintenance and refueling; 1 unscheduled shutdown. Received notification from the NRC that three new Reactor Operator and three new Senior Reactor Operator licenses had been issued.

MAINTENANCE ACTIVITIES

| | |
|----------|---|
| 10/4/04 | Refueled - removed core 04-46, loaded core 04-47. Replaced the MURR Industrial Building branch feeder breaker. |
| 10/6/04 | Shipped eight spent fuel elements to Savannah River Site. |
| 10/8/04 | Refueled - removed core 04-47, loaded core 04-48. |
| 10/11/04 | Refueled - removed core 04-48, loaded core 04-49. Performed backflush on the Pool Coolant System Heat Exchanger, (Secondary Side). |
| 10/18/04 | Refueled - removed core 04-49, loaded core 04-50. Completed the biennial change out of Control Blade 'D' Offset Mechanism. Replaced the wiring from the breaker to the motor for Secondary Coolant System Pump P-3. |
| 10/25/04 | Refueled - removed core 04-50, loaded core 04-51. |
| 10/27/04 | Shipped eight spent fuel elements to Savannah River Site. |

UNSCHEDULED SHUTDOWNS

| <u>Date</u> | <u>No.</u> | <u>Type</u> | <u>Cause</u> |
|-------------|------------|-------------|---|
| 10/8/04 | NA | Scram | Loss of Domestic Cold Water to the Facility |

On October 8, the reactor was manually shutdown when a loss of Domestic Cold Water (DCW) supply occurred at the facility. As part of the Cooling Tower Electrical Upgrade Project, trench work was being performed in order to install a new underground primary duct bank. While a backhoe was attempting to remove a large piece of concrete from the trench, the concrete inadvertently hit an exposed section of PVC piping, causing a break in the DCW supply line. The reactor was shutdown and DCW supply to the facility was isolated. Campus maintenance performed repairs and the supply line was flushed and placed back in service. The reactor was refueled and subsequently returned to 10 MW operation.

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

Oct-04

HOURS OPERATED THIS PERIOD

668.48

TOTAL HOURS OPERATED, REACTOR

261,881.53

HOURS OPERATED AT FULL POWER, THIS PERIOD

662.82

TOTAL HOURS AT FULL POWER, REACTOR

258,542.24

INTEGRATED POWER THIS PERIOD

276.30

MWD

TOTAL INTEGRATED POWER, REACTOR

101,926.99

MWD

Submitted by:

Das K

MWD Custodian/Reactor Physicist

Date:

Nov 2, 2004