



Research Reactor Center
University of Missouri-Columbia

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August 8, 2005

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

REFERENCE: Docket No. 50-186
University of Missouri- Columbia Research Reactor
Amended Facility License R-103

SUBJECT: MURR Operations Monthly Summary

Dear Mr. Adams:

Enclosed is a copy of MURR's Monthly Operations Summary for July 2005. If you have any questions, please contact me at (573) 882-5276.

Sincerely,

Leslie P. Foyto
Reactor Manager

LPF/djr

Enclosure

JE24
A020

**UNIVERSITY OF MISSOURI
RESEARCH REACTOR**

OPERATIONS MONTHLY SUMMARY

July 2005

**Prepared by:
Operations Staff**

INTRODUCTION

The reactor operated continuously in July with the following exceptions: 4 shutdowns for scheduled maintenance and refueling; 1 unscheduled shutdown (power reduction).

MAINTENANCE ACTIVITIES

- 7/4/05 Refueled – removed core 05-31, loaded core 05-32.
Replaced the Rod Position Indication System Operator Display Assembly power supply.
Loaded new pool de-ionization bed 'B'.
- 7/8/05 Replaced the air compressor for the Facility Instrument Air System.
- 7/11/05 Refueled - removed core 05-32, loaded core 05-33.
- 7/18/05 Refueled - removed core 05-33, loaded core 05-34.
Replaced Intermediate Range Channel No. 2 remote meter face.
- 7/25/05 Refueled – removed core 05-34, loaded core 05-35.
Replaced the bypass piping around the Secondary Coolant System auto makeup valve.

UNSCHEDULED POWER REDUCTIONS

<u>Date</u>	<u>No.</u>	<u>Type</u>	<u>Cause</u>
7/8/05	1183	Rod Run In	High Power Rod Run In

On July 8, a Nuclear Instrumentation Channel No. 5 High Power Rod Run-In occurred when a movable sample was being removed from the graphite reflector region during a routine sample handling evolution. While pulling the sample holder out, its handling cable became entangled with an adjacent sample's cables, causing both sample holders to be withdrawn from the reflector region at the same time. The reactivity insertion caused by the removal of both samples automatically initiated the rod run-in. The rod run-in was reset, and the reactor was returned to 10 MW operation. The operators involved were counseled on the importance of ensuring only one sample is pulled from the reflector region at a time.

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

Jul-04

HOURS OPERATED THIS PERIOD

684.36

TOTAL HOURS OPERATED, REACTOR

267,747.96

HOURS OPERATED AT FULL POWER, THIS PERIOD

681.09

TOTAL HOURS AT FULL POWER, REACTOR

264,383.45

INTEGRATED POWER THIS PERIOD

283.90

MWD

TOTAL INTEGRATED POWER, REACTOR

104,361.83

MWD

Submitted by: Das K
MWD Custodian/Reactor Physicist

Date: 8/2/05