



Research Reactor Center

University of Missouri-Columbia

Research Park
Columbia, MO 65211

PHONE (573) 882-4211
FAX (573) 882-6360

March 06, 2003

50-186

Mr. Craig Bassett
U.S. Nuclear Regulatory Commission
61 Forsyth Street, SW Suite 23T85
Atlanta, GA 30303

SUBJECT: Monthly Operations Summary

Enclosed is a copy of MURR's Monthly Operations Summary for February 2003. If you have any questions, please contact me at (573) 882-5276.

Sincerely,

Leslie Foyto
Interim Reactor Manager

LM/lmcg

Enclosure

IE24
A020

*Prepared by:
Operations Staff*

February, 2003

*UNIVERSITY OF MISSOURI
RESEARCH REACTOR
OPERATIONS MONTHLY SUMMARY*

INTRODUCTION

The reactor operated continuously in February with the following exceptions: three shutdowns for scheduled maintenance and refueling; one unscheduled shutdown.

MAINTENANCE ACTIVITIES

- 2/3/03 Refueled - removed core 03-04, loaded core 03-05.
- Removed and inspected level controller LC965 (Anti-siphon System Rod Run-in).
- 2/10/03 Refueled - removed core 03-05, loaded core 03-06.
- Repaired an air leak on level controller LC965 (Anti-siphon System Rod Run-in).
- 2/16/03 Refueled - removed core 03-06, loaded core 03-07.
- 2/17/03 Replaced Primary Temperature Control Valve (S-1) motor.
- Replaced Inner Airlock Door motor and gearbox.
- 2/18/03 Loaded new pool de-ionization bed 'W'.
- 2/24/03 Refueled - removed core 03-07, loaded core 03-08.
- Installed flow gauges in the P-Tube system in accordance with Modification Record 03-1.
- Completed Reactor Console upgrade in accordance with Modification Record 01-2.
- Replaced Charging Pump Relief Valve (557A).
- Repaired broken wire and replaced Intermediate Level Display Board (A4) on Nuclear Instrument Drawer #1.

UNSCHEDULED SHUTDOWNS

<u>Date</u>	<u>No.</u>	<u>Type</u>	<u>Cause</u>
2/16/03	1157	Scram	Primary Temperature Control Valve (S-1) motor shorted.

On February 16, a Reactor Scram was automatically initiated when the Primary Temperature Control Valve (S-1) motor shorted resulting in an overload condition on Breaker #9 on UPS Panel No. 2. This breaker provides power to the process instrumentation. The loss of power resulted in trip signals from all of the protective system channels. The motor for valve S-1 was replaced and tested satisfactorily. The UPS Inverter oscillator board was adjusted to remove an "Out of Sync" alarm resulting from the overload condition. The reactor protective system was verified operable as part of pre-startup checks and the reactor was subsequently returned to operation.

OPERATION SUMMARY FOR MONTH OF University of Missouri Research Reactor Center (MURR)	Feb-03
HOURS OPERATED THIS PERIOD	585.19
TOTAL HOURS OPERATED, REACTOR	248,633 11
HOURS OPERATED AT FULL POWER, THIS PERIOD	583.70
TOTAL HOURS AT FULL POWER, REACTOR	245,355 30
INTEGRATED POWER THIS PERIOD	243.28 MWD
TOTAL INTEGRATED POWER, REACTOR	96,429 88 MWD

Submitted by Das K
MWD Custodian/Reactor Physicist

Date. 3/3/03

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REMOVED AND INSPECTED
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AN AIR
Repaired [↓] leak on level controller LC965 (Anti-siphon System Rod Run-in).
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