



Research Reactor Center

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September 14, 2001

Mr. Alexander Adams, Jr.
U.S. Nuclear Regulatory Commission
Mail Stop O12-D3
Washington, DC 20555-0001

SUBJECT: Monthly Operations Summary

Enclosed is a copy of MURR's monthly operations summary for August 2001.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Paul S. Hobbs'.

Paul S. Hobbs, PE
Reactor Manager

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encl

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UNIVERSITY OF MISSOURI RESEARCH REACTOR

OPERATIONS MONTHLY SUMMARY

August 2001

Prepared by:
Operations Staff

August 2001

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

On August 21st, a reactor scram occurred due to a spurious reactor high temperature indication on primary heat exchanger temperature instruments 980A and 980B. This occurred as a result of radio frequency (RF) interference when a portable radio microphone was keyed in close proximity to the alarm meter units. The RF caused the meter indications to deflect, inadvertently causing the scram. This was recreated and verified to be the cause. Operators have since been instructed to not use portable radios in close proximity to any sensitive reactor instrumentation.

Major maintenance items for the month included: completion of Addendum 2 of Modification Record 01-04 (replacement of the primary T_H and T_C GE/MAC type 550 millivolt/current temperature transmitters with Moore model RBT transmitters and replacement of Bailey 100 ohm platinum RTD's with Rosemount model 68 100 ohm platinum RTD's); removing silicon sample graphite reflector wedges designated B-6, Y-5, G/Y-4 and installing a new (three hole) 5 inch diameter silicon sample irradiation position; shipping eight spent fuel elements to Westinghouse Savannah River Site; removing depleted pool de-ionization bed "V" and loading new pool de-ionization bed "T"; flooding the dry fire-main and leaving it flooded but unpressurized.

UNSCHEDULED SHUTDOWNS

<u>Date</u>	<u>#</u>	<u>Type</u>	<u>Cause</u>
08/21/01	1130	Scram	Spurious reactor high temperature

MAINTENANCE ACTIVITIES

Date

08/06/01	Refueled - removed core 01-37, loaded core 01-38. Completed Addendum 2 of Modification Record 01-04.
08/13/01	Refueled – removed core 01-38, loaded core 01-39. Removed silicon sample irradiation positions designated B-6, Y-5, G/Y-4 and installed a new (three hole) 5 inch diameter silicon sample irradiation position.
08/20/01	Refueled – removed core 01-39, loaded core 01-40. Loaded eight spent fuel elements to be shipped to Westinghouse Savannah River Site.
08/21/01	Disposed of depleted pool de-ionization bed “V.”
08/23/01	Loaded new pool de-ionization bed “T.”
08/27/01	Refueled- removed core 01-40, loaded core 01-41. Flooded the dry fire main.

OPERATIONS SUMMARY

HOURS OPERATED THIS PERIOD	655	
TOTAL HOURS OPERATED	237,133	
HOURS AT FULL POWER THIS PERIOD	651	
TOTAL HOURS AT FULL POWER	233,917	
INTEGRATED POWER THIS PERIOD	271	MWD
TOTAL INTEGRATED POWER	91,661	MWD