

UNIVERSITY OF MISSOURI RESEARCH REACTOR

OPERATIONS MONTHLY SUMMARY

October 1995

Prepared by:
Operations Staff

October 1995

The reactor operated continuously in October with the following exceptions: seven shutdowns for scheduled maintenance and refueling or flux trap changes. There were no unscheduled shutdowns this month.

Major maintenance items for the month included: installing a new Gamma-Metrics source range monitor; replacing the dual scram trip unit for intermediate range channel #2; biennial change-out of control blade offset 'C'; installing a new rhodium detector in the G-4 position; removing the old source range monitor detector and drywell; removing secondary pool heat exchanger bypass valve S-2 and replacing it with a 6 inch bypass line; replacing the shear pin on the outer personnel airlock door.

OPERATION SUMMARY

HOURS OPERATED THIS PERIOD	669
TOTAL HOURS OPERATED	191,628
HOURS AT FULL POWER THIS PERIOD	663
TOTAL HOURS AT FULL POWER	188,638
INTEGRATED POWER THIS PERIOD	276 MWD
TOTAL INTEGRATED POWER	72,748 MWD

MAINTENANCE ACTIVITY

10/2/95	Refueled - removed core 95-41, loaded core 95-42.
10/3/95	Shutdown for a flux trap change-out.
10/9/95	Refueled - removed core 95-42, loaded core 95-43.
10/16/95	Refueled - removed core 95-43, loaded core 95-44. Installed new Gamma-Metrics source range monitor; replaced dual scram trip unit for intermediate range channel #2
10/23/95	Refueled - removed core 95-44, loaded core 95-45. Biennial change-out of offset 'C'.
10/30/95	Refueled - removed core 95-45, loaded core 95-46. Installed new rhodium detector in G-4 position; removed old source range drywell and detector; removed secondary pool heat exchanger bypass valve S-2 and replaced it with a 6 inch bypass line; replaced the shear pin on the outer personnel airlock door.

Ocotber 6, 1995

CAL No. RIII-95-004

The Curators of the University
of Missouri
ATTN: Jim Rhyne, Ph.D., Director
Research Reactor Center
Columbia, MO 65211

SUBJECT: CONFIRMATORY ACTION LETTER

Dear Dr. Rhyne:

This letter refers to NRC concerns with the control of radioactive topaz at your facility identified by Mr. R. Marsh during an investigation on September 19 and 20, 1995.

Pursuant to Mr. Steve Gunn's letter to Mr. Marsh dated September 20, 1995, as amended on September 21, 1995, it is our understanding that you will:

- (1) padlock the inner door to the dark room and place two keys to the room under the control of Mr. John Ernst or his designee and Mr. Matt Sanford or his designee,
- (2) until further notice, have a University of Missouri Research Reactor (MURR) employee present in a supervisory role when any work is performed in this space,
- (3) conduct an audit of the material contained in the room under the direction of Mr. Jim Schuh,
- (4) ensure no material is transferred into or out of this room until the inventory has been reconciled under the oversight of Clarence Jett of the University of Missouri Internal Auditing Department, and
- (5) once the inventory is complete and until further notice, ensure a MURR employee supervises all material transfers into and out of the dark room.

Pursuant to Section 182 of the Atomic Energy Act, 42 U.S.C. 2232, you are required to:

- 1) Notify me immediately if your understanding differs from that set forth above;

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- 2) Notify me if for any reason you cannot complete the actions within the specified schedule and advise me in writing of your modified schedule in advance of the change; and
- 3) Notify me in writing when you have completed the actions addressed in this Confirmatory Action Letter.

Issuance of this Confirmatory Action Letter does not preclude issuance of an order formalizing the above commitments or requiring other actions on the part of the licensee; nor does it preclude the NRC from taking enforcement action for violations of NRC requirements that may have prompted the issuance of this letter. In addition, failure to take the actions addressed in this Confirmatory Action Letter may result in enforcement action.

The responses directed by this letter are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, Pub. L. No. 96-511.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter, and your response will be placed in the NRC Public Document Room (PDR). To the extent possible, your response should not include any personal privacy, proprietary, or safeguards information so that it can be placed in the PDR without redaction. However, if you find it necessary to include such information, you should clearly indicate the specific information that you desire not to be placed in the PDR, and provide the legal basis to support your request for withholding the information from the public.

Sincerely,

Cynthia D. Pederson, Director
Division of Nuclear Materials Safety

Docket No.: 030-30162
License No.: 24-00513-36E

cc w/ltr dated 9/20/95: H. Thompson, OEDO
J. Lieberman, OE
J. Goldberg, OGC
D. Cool, NMSS
C. Jones, NMSS
H. Miller, RIII
State of Missouri, SLO

bcc w/ltr dated 9/20/95: PUBLIC IE07

*See Previous Cocurrence

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OFFICE	*RIII	*RIII	*RIII	RIII
NAME	MMitchell:dp:ch	TKozak	BBurgess	CPederson
DATE	10/ /95	10/ /95	10/ /95	10/ 5 /95

OFFICIAL RECORD COPY

University of Missouri-Columbia

Research Reactor Center

Research • Education • Service

Columbia, MO 65211

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Robert Marsh
Senior Investigator
U.S. Nuclear Regulatory Commission
Office of Investigations
Chicago Field Office

September 20, 1995
Amended September 21, 1995

Dear Mr. Marsh

The following actions have been taken to address your concerns regarding our control of Radioactive Topaz in our Non-Licensed Accounts (NLA).

(1) A padlock was purchased this date at Walmart and placed on the inner door to the dark room. Two keys exist, one under the control of John Ernst, or his designee, and one under the control of Matt Sanford or his designee.

(2) Until further notice, the Licensee (MURR) will insure that a MURR employee is present in a supervisory role when any work is performed in this space.

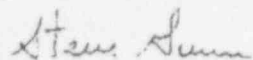
(3) An audit of the material contained in the room has been started under the direction and supervision of Jim Schuh.

(4) No material will be transferred into or out of this room until the inventory has been reconciled.

9/21/95 Clarence Jett of the University of Missouri Internal Auditing Department will oversee the reconciliation.

(5) Until further notice, the Licensee (MURR) will insure that a MURR employee supervises all material transfers into and out of this room.

Sincerely,



Steve Gunn

Manager, Service Applications

CC: Jim Rhyne, Charlie McKibben, John Ernst, Walt Meyer, Steve Morris, Jim Schuh, Matt Sanford
9/21/95 Clarence Jett

95-0190288-1P