



DEPARTMENT OF VETERANS AFFAIRS
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4101 Woolworth Avenue
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February 8, 1993

In Reply Refer To:

636/151

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

SUBJ: 10 CFR 50.59 Report -

REF: License R-57

1. The following report is submitted for the period January 1, 1992, to December 31, 1992, in accordance with Paragraph 50.59, Title 10, Code of Federal Regulations.
2. During the above period there were no changes in performance characteristics or tests which require inclusion in the annual report.
3. The quarterly fuel element surveillance tests indicate that the inspected elements are in good condition.
4. The energy generated by the reactor during the reporting period was as follows:

January, 1992	846.18	KW-hours
February	1,036.43	
March	1,144.38	
April	364.45	
May	693.03	
June	346.24	
July	1,266.21	
August	583.70	
September	599.25	
October	848.02	
November	176.23	
December	200.60	
	<u>8,104.72</u>	KW-hours

5. During the report period there were 3 unscheduled shut downs. Two of the shut downs were caused by the withdrawal a boron sample shield with a reactivity of 8 cents and one by accidentally pushing the scram reset button.

6. Maintenance problems and the corrective maintenance performed were as follows:

- a. Leak in receiver of pneumatic transfer tube. The leak was caused when the previously epoxied titanium patch lost its integrity. The tube was removed, and a new titanium patch was epoxied around the hole in the receiver. After allowing the epoxy to dry the tube was replaced in the core. The tube continues to be watertight. It is thought that the titanium patch may have caught on the upper grid plate during the tubes removal for inspection in 1991, thereby causing the patch to weaken.

- b. Leaky waterpump seal. Seal replaced.

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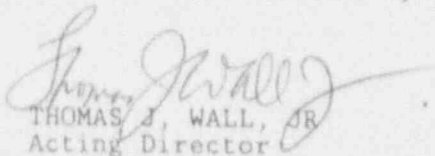
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8. Summary of radioactive effluents released or discharged beyond the effective control of the license:

- a. Liquid - none
- b. Airborne - less than 0.1 Ci.
- c. Solid - none

9. The reactor continues to be used as a neutron source for neutron activation analysis of biological samples and for hot atom chemistry research. In addition the reactor is being used for training Fort Calhoun Station Power Reactor Operators.


THOMAS J. WALL, JR.
Acting Director

✓ cc: Region IV Office of Inspection and Enforcement
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