



DEPARTMENT OF VETERANS AFFAIRS
 Medical Center
 4101 Woolworth Avenue
 Omaha NE 68105

February 22, 1991

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

In Reply Refer To: 636/151C

SUBJ: 10 CFR 50.59 Report -

REF: License R-57

1. The following report is submitted for the period January 1, 1991, to December 31, 1991, 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, 1991 | 1,103.31 | KW-hours |
| February | 1,489.48 | |
| March | 833.28 | |
| April | 1,327.43 | |
| May | 1,191.70 | |
| June | 638.35 | |
| July | 522.48 | |
| August | 573.74 | |
| September | 825.10 | |
| October | 294.67 | |
| November | 170.00 | |
| December | <u>354.16</u> | |
| | 9,323.70 | KW-hours |

5. During the report period there were 2 unscheduled shut downs. The causes were as follows:

- 1 - Plug into recorder pulled while at power to test reference cell voltage.
- 1 - Linear full span calibration circuit closed while reactor at power.

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

- a. Improper reading of linear recorder - replaced calibration battery;
- b. Log N recorder could not be calibrated - log N balancing motor (including gears) was replaced;
- c. Nine pin Amphenol plug on the right side of the recorder shorted out while re-installing recorder - Amphenol plug was replaced;
- d. Log N recorder had no drive - two 12AX7 amplifier tubes were replaced.

7. 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

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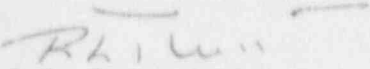
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8. The facility has not yet received NRC approval of the Technical Specification and SER changes requested to allow switching to the General Atomic NM - 1000 neutron measuring system and operation at 20 Kw. When received the existing neutron monitoring system will be replaced.

8. 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.


R.L. Turcotte
Director

cc: Director of Inspection and Enforcement, USNRC
Region IV
Office of Inspection and Enforcement
611 Ryan Plaza Drive
Suite 1000
Arlington, TX 76011