

Department of Nuclear Engineering

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Nuclear Engineering
Safety Engineering
Industrial Hygiene
Health Physics

28 Aug1992

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

REFERENCE: License R-23, Docket#50-59

Dear Sir:

Please find enclosed one copy of the most recently completed annual operating report dated 1 June 1991 to 31 May 1992 for the AGN-201M reactor, Docket#50-59. If you have any questions concerning this report please contact me at (409) 845-498.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert O. Berry".

Robert O. Berry
Reactor Supervisor AGN-201M

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ANNUAL OPERATING REPORT

of the

TEXAS A&M UNIVERSITY AGN-201M TRAINING REACTOR

NRC LICENSE R-23

JUNE 1, 1991 - MAY 31, 1992

DEPARTMENT OF NUCLEAR ENGINEERING

TEXAS A&M UNIVERSITY

College Station, Texas 77743-3133

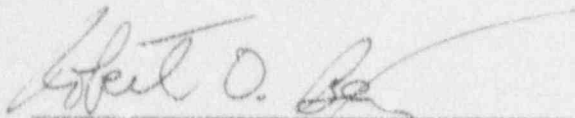
ANNUAL OPERATING REPORT

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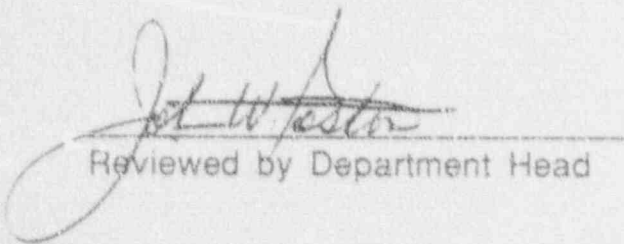
TEXAS A&M UNIVERSITY AGN-201M TRAINING REACTOR

NRC LICENSE R-23

JUNE 1, 1991 - MAY 31, 1992



Reviewed by Reactor Supervisor



Reviewed by Department Head

DEPARTMENT OF NUCLEAR ENGINEERING

TEXAS A&M UNIVERSITY

College Station, Texas 77743-3133

1. SUMMARY

This report details the pertinent activities related to the Texas A&M University AGN-201M training facility operated by the Department of Nuclear Engineering during the period of 1 June 1991 until 31 May 1992. The contents of this report are intended to comply with requirements of 10CFR50 section 50.59(b), and Appendix A of the Technical Specifications for this facility under license R-23.

The main function of this facility is to provide an operating nuclear system to be used as a research tool, to support the requirements of Nuclear Engineering courses and for operator training as well as preventive maintenance. The following Nuclear Engineering courses were supported during this reporting period:

NUEN 405: Nuclear Engineering Experiments

NUEN 679: Practical Applications of Radiological Safety 1

All of the components that were replaced as part of preventive and corrective maintenance are detailed in Section 4 of this report. All of the components replaced during this reporting period do not involve any unreviewed safety questions and are not expected to adversely affect the safe operation of this facility. During this reporting period both Channel 1

and 2 failed, the failure of these components and the subsequent time to repair each drawer resulted in the fact that none of the major preventive maintenance was performed during this reporting period. All requirements of the technical specifications were met and the required maintenance were performed within the time limits and all results were within normal parameters of operation.

2. OPERATIONAL SUMMARY

<u>UTILIZATION BY CATEGORY</u>	<u>HOURS</u>
(a) Support of Nuclear Engineering Courses	12.8
(b) Operator Training/Requalification	9.73
(c) Preventive/Corrective Maintenance	0.72
<u>Total Operating Hours:</u>	23.25
<u>Total Hours Critical:</u>	12.43
<u>Total Watt-Hours of Operation:</u>	3.23
<u>Average Power Level of Operation (Watts):</u>	00.98
<u>Number of Reactor Startups</u>	36

3. UNSCHEDULED SHUTDOWNS

<u>DATE</u>	<u>TYPE</u>	<u>CAUSE</u>	<u>CORRECTIVE ACTION</u>
9-26-91	High Level Channel #3	Operator error in in switching scales	Trainee counseled
9-26-91	High Level Channel #3	Meter spike when switching scales	Switch rotated to clean all contacts
1-10-92	High Level Channel #3	Operator error in in switching scales	Trainee counseled

4. MAJOR SAFETY RELATED CORRECTIVE MAINTENANCE

- (a) 10/17/91 Replaced the following tubes in Channel #2 with identical replacements: V-12, V-6, V-10 and V-15.
- (b) 10/18/91 Replaced the following tubes in Channel #2 with identical replacements: V-12, V-6, V-16 and V-15.
- (c) 12/1/91 Replaced and repaired several connections and resistors and capacitors in 125 volt power circuit to Channel #2 with equivalent or newer components.
- (d) 6/29/92 Replaced 24 volt power supply in Channel #1 with an equivalent power supply.

5. (a) FACILITY CHANGES

A new metal door with digital and spring return locks was added to the facility at F-1. This new door is intended to replace the hydraulically operated concrete door currently in use at this location. While the old door remains in place it is no longer used to control access into the Accelerator Room.

(b) CHANGES TO PLANS AND PROCEDURES

The Security Plan and the facility floor plans have been updated to reflect the newly installed dual lock door at located F-1.

(c) NEW EXPERIMENTS OR TESTS

No new experiments or tests were performed during this reporting period.

6. SUMMARY OF SAFETY EVALUATIONS

No changes, tests or experiments were performed during this reporting period which meet the criteria of 10CFR50 paragraph 50.59 requiring a safety evaluation.

7. SUMMARY OF RADIOACTIVE EFFLUENTS RELEASED

No liquid or solid radioactive waste was released during this reporting period.

8. ENVIRONMENTAL RADIOLOGICAL SURVEYS

No environmental radiological surveys were performed outside this facility during this reporting period.

9. RADIATION EXPOSURE

During calendar year 1991 two people had exposures that were reported between 0.250 - 0.500 rem. All of the other exposures were reported to be less than 0.100 rem.

10. MISCELLANEOUS

The following personnel currently hold active licenses for the AGN-2010:

Robert Berry	SOP - 43374
John Court	OP - 70038
Ian Hamilton	OP - 70023

During this reporting period both John Court and Ian Hamilton received their operating licenses.