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Docket No. 50-116

Ref: 10 CFR 50.71 (a)

July 21, 2000

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

To Whom it May Concern:

Please find enclosed the Annual Operations Report for the Iowa State University UTR-10 reactor. The period covered by this report is from July 1, 1999 to June 30, 2000.

Sincerely,



Scott E. Wendt, Reactor Manager
Mechanical Engineering Department

Enclosure

c: American Nuclear Insurers
D.B. Bullen, Facility Director, Chm., Radiation Safety Committee
W.R. DeVries, Chm., Mechanical Engineering Department
D.A. Inyang, Dir., Environmental Health & Safety
A.F. Rohach, Reactor Use Committee
U.S. NRC, Region III

A020

Annual Operations Report
Iowa State University's
UTR-10 Reactor

Docket No. 50-116

July 1, 1999 to June 30, 2000

This is a routine operations report to the Nuclear Regulatory Commission in accordance with the requirements of Section 6.6 of the Technical Specifications, Appendix A to Operating License R-59.

The final reactor criticality was May 8, 1998. Reactor operations were officially ceased on May 15, 1998.

1. Major preventive and corrective maintenance operations having safety significance:

No corrective maintenance was required. All surveillance and maintenance activities required by Technical Specifications were completed within the specified time intervals.

2. Major changes in the reactor facility and procedures that are significantly different from those performed previously and are not described in the Safety Analysis Report, including conclusions that no un-reviewed safety questions were involved:

A new procedure was developed to dismantle the 13 reactor fuel assemblies and re-assemble them into shipping bundles. The Reactor Use Committee reviewed and approved the procedures prior to implementation. Subsequently on January 7th, 2000 the reactor's LEU core was shipped to the DOE's Savannah River Site.

License amendment number 14 transmitting NRC approval of the Decommissioning Plan for UTR-10 was received on May 8, 2000. The Area Radiation Monitors and the Emergency Power System were removed from the facility after receiving the license amendment.

Duke Engineering & Services arrived on-site June 6, 2000 and began decommissioning activities shortly thereafter. Prior to commencement of the decommissioning activities, the Reactor Use Committee reviewed the work procedures and performed a Safety Review per 10 CFR 50.59 on a proposed change to demolition methods. The change from wire saws to hydraulic breaking was approved after concluding that the change did not involve any un-reviewed safety questions.

3. Summary of the nature and amount of radioactive effluents released or discharged to the environs beyond the effective control of the University as determined at or before the point of such release or discharge. (Estimates of individual radio-nuclides present in the effluent are included, to the extent practical.):

Argon-41: No Ar-41 was released.

Although decommissioning activities began during this report period, the shipments of radioactive waste will not occur until the next report period. Monitoring of dust and air in the demolition area has indicated that no radioactive materials have been released during the decommissioning activities. Liquid waste has been collected for later disposal. Solid demolition debris was taken to the land-fill only after verifying no detectable radioactivity. This will be explained and documented in detail in the final decommissioning report.

4. Summarized results of any environmental surveys performed outside the facility:

No environmental surveys outside the facility were required since the trigger level, based on surveys inside the facility, was not exceeded.

Supplemental environmental surveys have been performed by ISU Environmental Health & Safety in and around the Nuclear Engineering Lab during decommissioning activities.

5. Summary of exposure received by facility personnel and visitors:

No facility personnel or visitors had exposures greater than 25% of that allowed or recommended.