



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION II
 101 MARIETTA ST., N.W., SUITE 3100
 ATLANTA, GEORGIA 30303

Report No.: 50-83/83-01

Licensee: University of Florida
 202 Nuclear Sciences Center
 Gainesville, FL 32611

Facility Name: University of Florida Training Reactor

Docket No.: 50-83

License No.: R-56

Inspection at University of Florida site near Gainesville, Florida

Inspector: A. K. Hardin 2/24/83
 A. K. Hardin Date Signed

Approved by: P. R. Bemis 2/25/83
 P. R. Bemis, Section Chief Date Signed
 Project Branch No. 1
 Division of Project and Resident Programs

SUMMARY

Inspection on February 8-11, 1983

Areas Inspected

This routine, unannounced inspection involved twenty-one inspector-hours on site in the areas of organization, logs and records, requalification training, surveillances, experiments, audit functions, procedures, and previous enforcement issues.

Results

Of the eight areas inspected, no violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *J. A. Wethington, Acting Chairman, Department of Nuclear Engineering Sciences
- *M. J. Ohanian, Chairman, Reactor Safety Review Subcommittee
- *N. J. Diaz, Director of Nuclear Facilities
- *W. G. Vernetson, Reactor Manager
- *D. Munroe, Radiation Control Officer
- H. Gogun, Senior Reactor Operator
- G. Fogle, Reactor Operator

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on February 11, 1983, with those persons indicated in paragraph 1 above. No violations or deviations from regulatory requirements were cited.

3. Licensee Action on Previous Enforcement Matters

Infraction (80-01-02) (Closed) Technical Specification IV.C. requires a check of the wide range source count rate inhibit circuit prior to each startup. The licensee was cited for failure to make this check in IE Report No. 50-83/80-01. The licensee responded to the citation on May 7, 1980, stating why the check could not be accomplished. In IE Report 50-83/81-01 it is stated that a Technical Specification revision regarding this check had been submitted to NRR. On August 30, 1982, NRR renewed the operating license for the UFTR for a 20 year period. Appendix A to the license was revised to eliminate the required check of the wide range count rate inhibit circuit prior to each startup. This item is closed.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Organization

The UFTR organization meets regulatory requirements throughout the various levels of management and operation as required by the Technical Specifications. As of the inspection dates however, the available certified licensed personnel was limited in that the absence of one specific senior licensed operator, if more than 30 minutes or 15 miles from the facility, would prohibit the operation of the facility. The licensee recognizes this

condition and has essentially completed all requirements for licensing one additional individual as a senior operator plus certifying another individual who already holds a valid senior license.

The inspector verified that a list of reactor facility personnel by name and phone number was available in the control room as required by TS 6.2.3. The list was adequate and in addition to the UFTR staff, it contained names and phone numbers of the University Police, the University Hospital, local, regional, and national contacts.

No violations or deviations were identified in the areas of organization.

6. Logs and Records

UFTR operating logs for the period 9/1/81 to 12/30/82 and Maintenance Logs for the period 7/8/81 to 11/17/82 were scanned to ascertain that the logs were adequately filled out, met facility requirements, and that no unresolved significant problems were evident. In IE Report No. 50-83/82-01 an inspector followup item (83/81-01-01) identified that additional effort should be made by the licensee to assure no blanks are left in daily check sheets. On the current inspection, the daily checks were considered adequate. The Inspector Followup Item of IE Report No. 83/81-01 is closed.

The maintenance work done during the period reviewed by the inspector was adequately reviewed and approved in accordance with the licensee's procedures. No violations or deviations were identified in this area.

7. Review and Audit

A review was made of the Reactor Safety Review Subcommittee (RSRS) minutes for the period 1/28/82 to 1/21/83. The minutes confirm that the frequency of meetings, quorum requirements, and committee member qualifications met the Technical Specification requirements.

A records review was made of the audit functions of the RSRS. The audits and areas covered by the audits were deemed adequate when measured against TS requirements.

8. Requalification Training Program

The licensed operator requalification training program for the UFTR was reviewed for the period 9/81 to 1/83. Twenty-one lectures were held during the period under review. Attendance at the meetings, subjects discussed at the meetings, and reactivity manipulation records were reviewed and found to meet requirements based on the record of the specific operators certified to operate the reactor. In accordance with the definitions specified in TS Section 6.1., only two operators are certified to operate the reactor at the present time. Two additional people, one due to receive a Senior License in the near future, and one holding a Senior License who has recently returned from an extended leave, are on site.

No violations or deviations were identified in this area.

9. Procedures

Technical Specification 6.3 issued 8/30/82 committed the licensee to ten categories of procedures. The inspector reviewed the licensee's procedures against these categories. The UFTR scope and content of procedures was deemed adequate to meet the safety requirements for operation and control of the reactor, although many of the procedures were several years old. The inspector also verified that procedures had been reviewed by the Reactor Safety Review Subcommittee. A licensee representative stated during the inspection that procedures were being reviewed and updated.

At the exit interview, the licensee was asked when review and revision of procedures would be complete. The licensee stated their plan was to have procedures in a uniform format and to have them entered into a word processing computer for easy revision and reissue by 7/83.

The inspector had no further questions in this area; however, the item was left as Inspector Followup Item 83/83-01-01.

10. Surveillance

The following surveillance activities required by the UFTR Technical Specifications were reviewed:

- Stack Dilution Air Flow Measurements
- Nuclear Instrumentation Calibration Check and Nuclear Heat Balance
- Primary Water Level
- Control Blade Drop Time Checks
- Blade Drop Reactivity Worth
- Quarterly Scram Checks
- Area Monitor Calibration
- Evacuation Drills
- Shutdown Margin

No violations or deviations were identified in the conduct of these tests.

11. Experiments

Reactor utilization has been relatively low. For example, reactor run time for the period 9/1/81 to 8/31/82 was 206.76 hours while energy generation for that period was 8438.5 kw-hrs. As the licensee stated in their annual report - "Research programs and irradiations continue to be at minimal levels".

During the period 1/20/82 to 7/1/82, thirteen irradiations were conducted. The inspector verified the irradiations were reviewed and approved at a level commensurate with the potential hazards of the irradiation. None of the thirteen experiments conducted during the period constituted a significant safety hazard.

No violations or deviations were identified in this area.