



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 19 TO

FACILITY OPERATING LICENSE NO. R-56

UNIVERSITY OF FLORIDA

DOCKET NO. 50-83

1.0 INTRODUCTION

By letter dated December 2, 1993, the University of Florida (licensee) requested an amendment to their Technical Specifications (TS) for the University of Florida Training Reactor (UFTR). The licensee requests that TS citing 10 CFR Part 20 be changed to conform with the revised 10 CFR Part 20, which became effective on January 1, 1994.

2.0 EVALUATION

The first change on Page 11 updates the limitation on the discharge concentration of Argon-41 to reduce it from  $4 \times 10^{-8}$  uCi/ml to  $1.0 \times 10^{-8}$  uCi/ml per the revised 10 CFR Part 20. The licensee has revised the procedures dealing with the Argon-41 concentration measurements to correspond with the new limit. Previous experience shows that the actual concentration is well below the new limit.

The second set of changes is on Page 12. The first updates the reference for limits on liquid effluents discharge to the revised 10 CFR Part 20, specifically referring to 10 CFR 20.2003 instead of 10 CFR 20.303 and Table 3 instead of Table 1 in 10 CFR 20 Appendix B. The second change is in the bases where the previous reference to unrestricted area limits is updated to use the proper terminology of "effluent concentration" for the Argon-41 releases.

The third set of changes is on Page 40. The first change here addresses Section 7.0 of the Technical Specifications on ALARA. Here a reference to Maximum Permissible Concentration (MPC) is changed to maximum concentration per terminology of the new 10 CFR Part 20. In addition, the previous 500 mrem/yr federal limit is replaced with the 100 mrem/yr federal limit, again per the new 10 CFR Part 20. In addition, references to upgrades of the UFTR to 500 kWt have been reworded since there are no active plans to upgrade UFTR power above the current license limit of 100 kW for steady state operation. In addition, the reference to ALARA on page 40 has been changed from 10 CFR 50.36a to 10 CFR 20.1101(b) because the former does not apply to non-power reactors. Also, the statement that "There is no known biological uptake of Argon-41" has been changed to state that "There is little biological uptake of Argon-41" to make it a more correct statement. The staff finds all the above changes acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves changes in the use of facility components located within the restricted area as defined in 10 CFR Part 20 or changes in recordkeeping, reporting, or administrative procedures or requirements. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9) or (10). Pursuant to 10 CFR 51.22(b), no Environmental Impact Statement or Environmental Assessment need be prepared in connection with the issuance of this amendment.

### 4.0 CONCLUSION

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or the health and safety of the public.

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Date: March 4, 1994