



Nuclear Reactor Facility
Nuclear Engineering Sciences Department

202 Nuclear Science Center
Gainesville, FL 32611-2055
(904) 392-1429
Fax 392-3380

June 2, 1994

**Amendment 20
UFTR Technical Specifications**

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

Dear Sir:

Re: University of Florida Training Reactor
Facility License: R-56, Docket No. 50-83
Request for Change in Technical Specifications

A proposed amendment 20 to the UFTR Technical Specifications (R-56 License) possibly affecting Page 12 of the approved Tech Specs is attached. Basically the request is to amend the R-56 License as necessary to permit sanitary sewage system disposal of aqueous radioactive material in accordance with 10 CFR 20.2002. This change is considered to be minor and will constitute Amendment 20 to the UFTR R-56 License as noted on the attached page. The change is marked with the usual vertical line in the right-hand margin for Section 3.4.5 (Liquid Effluents Discharge), Paragraph (1).

The University of Florida operates a sanitary sewage system which services buildings on the UF campus (including classrooms, offices, laboratories, student family housing apartments, and student dormitories), Shands Hospital, J. Hillis Miller Medical Center complex, independent sororities and fraternities, and Athletic Association facilities. Attachment 1 is a description of the wastewater treatment system. It should be noted that the university's wastewater treatment system, which treats over 2 million gallons of wastewater per day, is larger than the systems serving numerous cities in Florida.

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Releases will only be liquids which have been accumulated in the waste water holdup tanks and usually contain low levels of mostly short half-life radioisotopes that have been allowed to decay. As has been the case for over twenty-five years, the effluent discharged into the holdup tanks comes from some twenty laboratories within the Nuclear Sciences Center, the University Radiation Control Office, as well as the UFTR complex. The UFTR normally releases approximately one liter of primary coolant per week to the holdup tanks from primary coolant sampling and analysis. Other reactor-related releases to the holdup tanks are irregular. The concentration of radioactivity in the liquid to be released into the sanitary sewage system is well below the applicable limits prior to release into the system. The 2 million gallons of additional wastewater will further dilute the radioactivity. The total quantity of radioactivity to be released has always been and will continue to be a small fraction of the allowable annual limits.

Our reactor facility is not permitted to initiate releases of liquids from the holdup tanks to the sanitary sewage system. Releases are always required to be performed by Radiation Control Office personnel with cognizance and authorization of UFTR management. Attachment 2 is Radiation Control Technique #21, Instruction for Utilizing, Sampling and Discharging Liquid Waste Holdup Tanks, and Attachment 3 is Radiation Control Technique #38, Instruction for Monitoring the Wastewater Treatment Plant Effluent for Radionuclides.

The applicable sections of the UFTR Technical Specifications are Section 3.4.5 (Liquid Effluents Discharge) for requirements for the sampling, activity measurements and releases from the liquid waste holdup tanks and Section 4.2.4(3) which addresses surveillance and monitoring requirements on radioactive liquid waste released from the holdup tanks to the sanitary sewage system. For this amendment only Section 3.4.5(1) changes to reference that these releases are allowed per 10 CFR 20.2002, though a reading of the existing text could already be interpreted to allow releases to the sanitary sewage system. The proposed license change as Amendment 20 affects only Section 3.4.5(1) of our Technical Specifications and is attached directly behind this letter of this transmittal.


This change as requested is not considered to have any safety significance but really involves a change to assure that the requirements of the new 10 CFR Part 20 effective January 1, 1994 are addressed explicitly. This change has been reviewed by UFTR management and by the Reactor Safety and Review Subcommittee who concur on this evaluation.

The entire mailing consists of one signed original and thirteen copies of this letter of transmittal and its attachments including the one page containing the proposed changes to the UFTR Technical Specifications.

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We appreciate your consideration of this proposed amendment. If additional information is required to support this amendment request, please contact me at (904) 392-1408/1429 or the Radiation Control Officer, Mr. Donald L. Munroe, at (904) 392-1591.

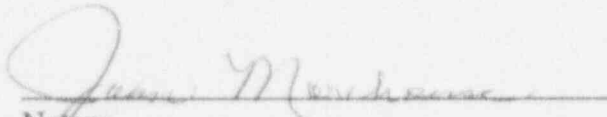
Sincerely,

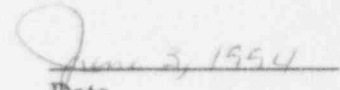


William G. Vernetson
Director of Nuclear Facilities

WGV/dms
Attachments (4)

Copies: U.S. NRC, Region II
T. S. Michaels, NRC Project Manager
Reactor Safety Review Subcommittee
D. L. Munroe, Radiation Control Officer
D. S. Simpkins, Reactor Manager



Notary

Date

JOAN MOREHOUSE
MY COMMISSION # CC302416 EXPIRES
August 27, 1997
BONDED THRU TROY FAIR INSURANCE, INC.