NUCLEAR ENGINEERING SCIENCES DEPARTMENT
Nuclear Reactor Facility
University of Florida

W.G. Vernetson, Director
NUCLEAR REACTOR BUILDING
[illegible] 32611
[illegible] 5-29 - Telex 56330

UFTR Emergency Plan
Revision 8
December 10, 1992

[illegible] Nuclear Regulatory Commission
[illegible]gton, D.C. 20555
Attn: Document Control Desk

Re: University of Florida Training Reactor (UFTR)
Facility License: R-56, Docket No. 50-83

Gentlemen:

The enclosed package contains Revision 8 to the approved UFTR Emergency Plan. Revision 8 has been reviewed by UFTR management and Reactor Safety Review Subcommittee (RSRS) to assure Revision 8 does not decrease the effectiveness of the UFTR Emergency Plan. All the changes are considered relatively minor in nature.

Revision 8 consists of a set of updates and minor revisions to fifteen (15) pages to include ii, v, 1-5, all of Chapter 3, (pages 3-1 through 3-8), 5-2, 8-2, 8-3, and 10-6.

First, Page 1-5 (Figure 1.3: Second Floor Plan for the University of Florida Training Reactor Building) is updated to reflect new room numbers assigned about a year ago as well as to reflect several changes in how the offices are set up to include changes in size and movement of non-load bearing inner walls to make two rooms in the former room 103 and to make one room out of the former rooms 102 and 103.

Second, all of Chapter 3 (Organization and Responsibilities) has been retyped with a number of changes. All except the two Figures are denoted by vertical lines in the right hand margin. First, on Page 3-1, a reference to "disaster" preparedness is changed to "emergency" preparedness in Paragraph 3.2.1 in keeping with preferred terminology. Second, Figure 3.1 is unchanged but has been reset to agree with the format of the rest of Chapter 3. Third, Section 3.3 has been changed to reference the State of Florida Department of Community Affairs, Division of Emergency Management, Disaster Preparedness State Warning Point which is to be notified of all radiological emergencies to assure proper communications are maintained with the Health and Rehabilitative Services (HRS) Office of Radiation Control to afford its personnel the opportunity for offsite monitoring and assessment and to assure availability and access to resources through this office should they be considered appropriate. Next, Section 3.4 is changed to reflect adding the HRS Office of Radiation Control as a fifth key emergency support organization though response by this Office is not considered essential for the UFTR Emergency Response Plan to be effective. Subsequently, the role of this Office is delineated in a new

Cert No
P053055786 A045
1/1

paragraph 3.4.5 which indicates that the State of Florida Department of Community Affairs, Division of Emergency Management maintains a State Warning Point for radiological emergencies and is informed of all UFTR radiological emergencies; normally they will be notified of all emergency drills as well. The HRS Office of Radiation Control maintains a full spectrum of response capabilities for offsite monitoring and dose assessment. The fact that they can be expected to respond to any significant radiological emergency associated with the UFTR basically to assure documentation of offsite monitoring and assessment activities needed to provide such backup radiation protection and control services as may be deemed appropriate requires that they be included as a key organization for consideration in responding to UFTR Radiological Emergencies.

The fact that the State of Florida Office of Radiation Control in the Department of Health and Rehabilitative Services is notified of all radiological emergencies to provide a communication link and the opportunity for offsite monitoring and assessment is also added to Section 3.5 (Reactor Emergency Response Organization and Extensions) though again it is emphasized that this response is not considered essential for the UFTR Emergency Response Plan to be effective. Finally, Figure 3.2 (UFTR Emergency Organization Including Extensions) is redrawn to include the State Warning Point and moved from Page 3-5 to page 3-6.

In the last paragraph of Section 3.5 the references to call lists and their availability is changed to reflect that they are posted on several bulletin boards and in several copies of the procedure manuals located at various points in the reactor building. Finally, Section 3.9 (Radiological Assessment) is also changed to reflect that the HRS Office of Radiation Control, through the State Warning Point, will be notified of all significant radiological emergencies to provide the opportunity for documenting offsite monitoring and assessment and assuring communication channels are established as appropriate. An incorrect reference to Figure 1.2 is changed to reference Figure 3.2.

The only other changes involved in retyping Chapter 3 are several changes to correct references to positions by gender (He, his, etc.). These references are corrected by using non-generic specific terms such as "the individual" or "his/her." These are also noted by vertical lines is the margin.

Third, Table 5.1 (UFTR Emergency Classification Guide) is changed to reflect better the categorization of emergencies allowed by the ANSI/ANS-15.16 Standard. Specifically, the Class I category will now require two area monitors above 100 mR/hr versus the previous 50 mR/hr. A new Class I event will be fuel damage indicated by high coolant fission product activity or contamination indicating fuel failure. This category indicates the release is well contained. Both of these example events prevent unnecessary elevation of emergencies to the Class II Alert level. For consistency, the Class II Alert category now references major visible damage to a fuel bundle or other visible failure indicating a major breach of one or more fuel plates with significant release of fission products. Again, this description matches the original intent for a Class II event. Class II now also requires two area monitors to be above 500 mR/hr, again preventing a Class II Alert event from being called simply from moving a radioactive sample (perhaps dropping it) next to one area monitor. The remaining changes in Table 5.1 are only

for presentation purposes with references to the decon room changed to the Emergency Support Center as the proper reference.

Fourth, Table 8.1 listing equipment typically available from the University of Florida Radiation Control Office for emergency dose and radiation level assessment and Table 8.2 which lists the equipment typically available in the UFTR facility for dose and radiation level assessment that may also be available from the UFTR depending on accessibility during an emergency event are both updated. These updated tables reflect better actual equipment available to address emergency events to include the removal of failed or unreliable instruments and the addition of new instruments acquired over the past two years such as the ASP-1 GM Survey meter, the RO-2A ionization chamber and the ESP-2/NRD-1 neutron detector. These tables do not have vertical lines in the margin due to the number of changes.

Fifth, Table 10.3 is updated only to show that the respirators with spare filters (asterisked) are stored in Room 108 NSC, not Room 106 NSC as previously indicated.

Finally, the Table of Contents (Page ii) is updated to reflect page changes per the retyped and corrected Chapter 3 and the List of Tables (Page v) is updated to reflect the movement of Figure 3.2 from page 3-5 to page 3-6.

As indicated, all these changes have been reviewed by UFTR management and by the Reactor Safety Review Subcommittee to assure they do not decrease the effectiveness of the UFTR Emergency Plan. These changes, especially those in Chapter 3, are also considered responsive to concerns expressed by the State of Florida Radiation Control Office in previous communications with UFTR management. In general, these changes make the Plan better suited to assuring a proper response to Emergencies at the University of Florida Training Reactor.

If there are any questions, please let us know. Thank you for your consideration.

Sincerely,

William G. Vernetson
Director of Nuclear Facilities

Notary

WGV:lmc
Enclosures
CC: NRC Region II (2 copies)
Reactor Safety Review Subcommittee
D. Simpkins