NUCLEAR ENGINEERING SCIENCES DEPARTMENT
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June 30, 1988

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Attn: Document Control Desk

Re: University of Florida Training Reactor
Facility License: R-56, Docket No. 50-83
Revision 5, Safety Analysis Report

Gentlemen:

The enclosed package contains Revision 5 pages for the UFTR Safety Analysis Report dated January, 1981 submitted as part of our relicensing effort. Revision 5 consists of seven pages to include pages 1-4, 1-5, 3-6, 4-9, 7-1, 9-1 and 15-2. These changes have been reviewed by UFTR management and the UFTR Safety Review Subcommittee and are not considered to involve any unreviewed safety question or to impact the UFTR Safety Analysis as outlined below; all text changes are denoted by vertical lines in the right hand margin of the attached affected replacement pages. Reasons for all changes are explained in the following paragraphs.

On Page 1-4, several experimental facilities are better delineated and the reactivity worths and shutdown margin with the most reactive control blade out have been updated based on the latest measurements made in February, 1988.

On Page 1-5, a typographical error is corrected in the first paragraph. In the second paragraph, the purpose and functioning of reactor vent system is better described than in the original description. In the next to last paragraph, the fact that the UCLA and VPI reactors are being decommissioned is noted.

On Page 3-6, the third paragraph is changed to indicate the proper location of the emergency personnel exit in the left-hand panel of the freight door, not the right-hand panel as viewed from inside the cell. Several typographical and grammatical errors are also corrected in this paragraph.

Table 4-1 on Page 4-9 is updated to reflect present UFTR characteristics and to correct several typographical errors such as use of a 1.0 curie PuBe source, not the previously listed 10 curie PuBe source per UFTR Tech Specs. Other changes include approximate values on maximum thermal flux and excess core reactivity, approximate current fuel loading, current flow rates and equilibrium core inlet/outlet temperatures and the control blade reactivity worths noted previously as changes on Page 1-4.

On Page 7-1, Section 7.2.1 is changed to reflect instrumentation operation in the UFTR console. This section previously indicated all "instrumentation contained in the console accepts or sends signals from or to the control rod drives, the reactor interlock system, and various detectors and transducers located around the reactor core and the reactor coolant system."

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Since the panel contains several other indicators such as a clock and door controls in place prior to relicense submission in 1981 and the energization switch and communication wire for the pneumatic-operated rapid sample insertion system added since relicensing, this change simply provides a correct, up-to-date console instrumentation description.

Also on Page 7-1, Section 7.2.1, three items are added to the list of control and indicating instrumentation to include a digital clock replacing a previous mechanical analog clock, a PuBe source alarm indicator and the energization switch and communication line for the pneumatic-operated rapid sample insertion system. For the first two items all is essentially unchanged since the relicensing except for replacement of the analog clock with a digital clock. Both the analog clock and the PuBe source alarm indicator were in place during relicensing in 1981 but were inadvertantly omitted from the list. As noted above the energization switch and communication line for the pneumatic-operated rapid sample insertion system represent a later addition which was fully reviewed prior to implementation.

On Page 9-1, the first line of Section 9.2.1 is changed to correct a typographical error and specifying a 3.0 ton crane, not a 30.0 ton crane available for use in the reactor cell.

Finally on Page 15-2, the first paragraph in Section 15.1.1.1 is changed to correct several typographical errors including the unnecessary repetition of the next to last independent clause in the last sentence.

As indicated, all Revision 5 changes have been fully reviewed by UFTR Management and the Reactor Safety Review Subcommittee to involve no unreviewed safety question per 10 CFR 50.59 and so are not considered to relax the requirements for assuring protection of the health and safety of the public and of the reactor facility.

The entire enclosure consists of one (1) signed original letter of transmittal with enclosure plus ten (10) copies of the entire package. If further information is required, please advise.

Sincerely,

William G. Vernetson

William G. Vernetson
Associate Engineer and
Director of Nuclear Facilities

Notary Public — Date 6/30/88

Notary Public, State of Florida
My Commission Expires Aug. 27, 1989
Bonded Thru Troy Fain Insurance, Inc.

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Enclosures
cc: U.S. NRC Region II
P.M. Whaley
Reactor Safety Review Subcommittee