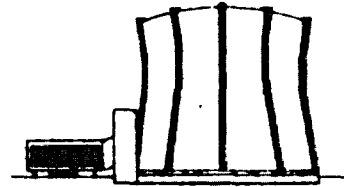


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August 4, 2006

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U.S. Nuclear Regulatory Commission
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Subject: Texas A&M University System Texas Engineering and Experiment Station Nuclear Science Center (TAMU NSC), Docket 50-128, License R-83 Corrections to Revised Tech Specs (RE: High-Enriched to Low Enriched Uranium Conversion for TAMU NSC)

The enclosed documents are corrections to the Proposed Technical Specifications for the Texas A&M University Conversion from HEU to LEU Fuel. Typographical errors were brought to our attention via telephone conversation with Alexander Adams, NRC Project Manager.

The enclosures include corrections to the following pages:

Table of Contents page 2 (Sections 1.37 – 5.4)
Page 9 (Sections 3.0 to 3.1.2)

If you have any questions me at 979-845-7551.

Sincerely,

W. D. Reece
Director, NSC

xc: 2.11/central file
A. Adams, NRC Project Manager

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3.0 Limiting Conditions for Operation

3.1 Reactor Core Parameters

3.1.1 Steady State Operation

Applicability

This specification applies to the energy generated in the reactor during steady state operation.

Objective

The objective is to assure that the fuel temperature safety limit will not be exceeded during steady state operation.

Specifications

The reactor power level shall not exceed 1.3 megawatts under any condition of operation. The normal steady state operating power level of the reactor shall be 1.0 megawatts. However, for purposes of testing and calibration, the reactor may be operated at higher power levels not to exceed 1.3 megawatts during the testing period.

Basis

Thermal and hydraulic calculations indicate the TRIGA fuel may be safely operated up to power levels of at least 2.0 MW with natural convection cooling.

3.1.2 Pulse Mode Operation

Applicability

This specification applies to the peak temperature generated in the fuel as the result of a pulse insertion of reactivity.

Objective

The objective is to assure that respective pulsing will not induce damage to the reactor fuel.

Specification

- a) The reactivity to be inserted for pulse operation shall not exceed that amount which will produce a peak fuel temperature of 1526°F (830°C). In the pulse mode the pulse rod shall be limited by mechanical means or the rod extension physically shortened so that the reactivity insertion will not inadvertently exceed the maximum value.
- b) Until the LEU fuel core has been calibrated, maximum pulse shall be limited to \$2.00.

Basis

TRIGA fuel is fabricated with a nominal hydrogen to zirconium ratio of 1.6 for LEU fuel. This yields delta phase zirconium hydride which has a high creep

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