

May 7, 1997

Major General Eugene L. Tattini, Commander
Sacramento Air Logistics Center
SM-ALC/TI-1
5335 Price Avenue
McClellan AFB, California 95652-2504

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (TAC NO. M96343)

Dear General Tattini:

We are continuing our review of your application for an NRC operating license for the McClellan Nuclear Radiation Center TRIGA reactor. During our review, questions have arisen for which we require additional information and clarification. Please provide responses to the enclosed request for additional information within 30 days of the date of this letter. In accordance with 10 CFR 50.30(b), your response must be executed in a signed original under oath or affirmation. Following receipt of the additional information, we will continue our evaluation of your application.

If you have any questions regarding this review, please contact Warren J. Eresian at (301) 415-1833.

Sincerely,

for Warren J. Eresian, Reactor Engineer
Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket No. 50-607

Enclosure: As stated

cc w/enclosure: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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If you have any questions regarding this review, please contact Warren J. Eresian at (301) 415-1833.

Sincerely,

A handwritten signature in cursive script, reading "Warren J. Eresian", is written over the typed name.

Warren J. Eresian, Reactor Engineer
Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket No. 50-607

Enclosure: As stated

cc w/enclosure: See next page

McClellan AFB TRIGA REACTOR

Docket No. 50-607

cc:

Dr. Wade J. Richards
SM-ALC/TI-1
5335 Price Avenue, Bldg. 258
McClellan AFB, California 95652-2504

Lt. Col. Marcia Thornton
HQ AFSC/SEW
9570 Avenue G., Bldg. 24499
Kirtland AFB, New Mexico 87117-5670

Col. Robert Capell
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4225 Logistics Avenue, Suite 23
Wright-Patterson AFB, Ohio 45433-5762

REQUEST FOR ADDITIONAL INFORMATION
MCCLELLAN AFB NUCLEAR RADIATION CENTER

DOCKET NO. 50-607

1. (SAR, page 4-14): Since control rod speed is important to the control of power during "steady-state" operation and is important with regard to a reactivity insertion accident, please provide a detailed description of how you determine the rod drive speed to be used. In addition, please provide a description of the procedures that must be followed if you decide to increase control rod drive speed to faster than 24 inches per minute.
2. (SAR, page 9-1): Please provide the seismic design parameters for the "in-tank" fuel storage racks. Specifically, are they designed to retain stored fuel elements in the event of your design seismic event.
3. (SAR, page 9-8): Please provide the basis for your statement that the "heat generation" in fuel stored in the fuel storage pits will be increased by a factor of 2, given that the power is increased by a factor of 10 (200KW to 2 MW).
4. (SAR, page 9-13): Please provide an analysis to show that your fuel element transfer cask will withstand an accidental drop of approximately 30 feet. (Preparation room access to the top of a shipping cask.) An alternative approach would be to provide your calculations to show that offsite doses from a fuel element transfer cask drop would be less than those calculated for your "Maximum Hypothetical Accident."
5. (SAR, page 11-14): Please provide a new Figure 11.1 that also defines the boundaries for the core, tank wall, and outer surface of the biological shield.
6. (SAR, pages 13-8, 9): Please provide your calculation of the "Uncontrolled Withdrawal of a Control Rod" using the proposed Technical Specification limits for:
 - a. maximum withdrawal speed;
 - b. maximum rod worth;
 - c. high power scram point;
 - d. 0.5 second (or more realistic value) from scram signal to actual rod release; and
 - e. rod fall time of 2 seconds.

Of particular interest will be the value of the "maximum positive reactivity insertion." (Is this at any time greater than \$2.12?)