

January 4, 1993

Docket No. 50-151

Dr. Daniel F. Hang, Director
Nuclear Reactor Laboratory
Department of Nuclear Engineering
214 Nuclear Engineering Laboratory
103 South Goodwin Avenue
Urbana, Illinois 61801-2984

Dear Dr. Hang:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI) (TAC NO. M83566)

We are continuing our review of your application for amendment of Facility License No. R-115 for the University of Illinois Advanced TRIGA Reactor which you submitted on May 27, 1992. During our review of your application, questions have arisen for which we require additional information and clarification. Please provide responses to the enclosed RAI within 30 days of the date of this letter. Following receipt of the additional information, we will continue our evaluation of your application. If you have any questions regarding this review, please contact me at (301) 504-1127.

In accordance with 10 CFR 50.30(b), your response must be executed in a signed original under oath or affirmation.

This requirement affects nine or fewer respondents and, therefore, is not subject to Office of Management and Budget review under P. L. 96-511.

Sincerely,

- original signed by -
Alexander Adams, Jr.
Senior Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Operating Reactor Support
Office of Nuclear Reactor Regulation

Enclosure:

RAI

cc w/enclosure:

See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script, reading "Alexander Adams, Jr.", is written over the typed name.

Alexander Adams, Jr.
Senior Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Operating Reactor Support
Office of Nuclear Reactor Regulation

Enclosure:
RAI

cc w/enclosure:
See next page

University of Illinois

Docket Nos. 50-151/356

cc:

Honorable Jeffrey T. Markland
City Hall
P. O. Box 219
Urbana, Illinois 61801

Dr. Daniel Hang, Director
Nuclear Reactor Laboratory
University of Illinois
Urbana, Illinois 61801

Illinois Department of Nuclear
Safety
Manager, Office of Nuclear
Facility Safety
1035 Outer Park Drive
Springfield, Illinois 62705

Mr. Richard L. Holm, Acting Reactor
Supervisor
Department of Nuclear Engineering
University of Illinois at Urbana
Champaign
103 South Goodwin Avenue
Urbana, Illinois 61801-2984

REQUEST FOR ADDITIONAL INFORMATION

UNIVERSITY OF ILLINOIS

DOCKET NO. 50-151

If the reply to any of these questions changes your proposed Technical Specifications (TS), please submit revised typed TS pages.

1. Please provide additional information concerning your request to remove authorization from the Facility License to receive, possess and use 2.6 kilograms of contained uranium-235. Why are you making this request?
2. Please rewrite paragraph 2.B. of Facility License R-115 breaking down the 5 kilograms of uranium-235 into amount, enrichment and form. Also include authority to possess, but not separate, such special nuclear material as may be produced by the operation of the facility. Attachment 1 provides an example of the "Part 70 paragraph" of a license written in this format. The purpose of this format is to specifically identify the high enriched uranium, if any, possessed under the Facility License.
3. Item e. of proposed Definition 1.14, Abnormal Occurrence, an unplanned reactor scram due to, for example, component failure or power failure, would be reportable because it is an unanticipated change under your current TS. ANSI/ANS 15.1-1990, "The Development of Technical Specifications for Research Reactors," excludes reactor trips from a known cause as being reportable. Consider making this change to your TS to reduce abnormal occurrences that have little or no safety significance.
4. Item f. of proposed Definition 1.14, Abnormal Occurrence, discusses an observed inadequacy that could have caused an unsafe condition. What about an observed inadequacy that does cause an unsafe condition? As the definition is currently written, this is not an abnormal occurrence. Please address this issue.
5. Item g. of proposed Definition 1.14, Abnormal Occurrence, discusses degradation of the containment boundary. Does your reactor facility have a containment? If it has a confinement, change Item g. to reflect your facility design.
6. In your proposed TS 6.1.2 a. 3., Staffing, what is considered "readily available on call" under the current Nuclear Laboratory Rules and Regulations?
7. In your proposed TS 6.1.3, Selection and Training of Personnel, what is your understanding of the current regulations and guidelines for the selection, training, and requalification of operations personnel? Are these regulations and guidelines stated in a facility procedure?

8. In Section 6.2 of the current TS, Review, responsibility number 7 of the Nuclear Reactor Committee, to approve individuals for the supervision and operation of the reactor, appears to have been deleted. Who has this responsibility under your proposed TS?
9. In your proposed TS 6.4, Procedures, does item g concerning procedures for radiation protection include handling of byproduct material produced by the reactor and the shipment of byproduct material from the reactor license?
10. In your proposed Section 6.8, Reporting Requirements, please remove reference to the Director, Office of Nuclear Reactor Regulation, from the address for headquarters reports. Addressing reports for headquarters to the Document Control Desk is sufficient.
11. In your proposed Section 6.8 a., Reporting Requirements, you discuss confirming telephone reports in writing by telegraph or similar conveyance. Please consider changing this to confirming in writing by facsimile or similar conveyance. Required telephone reports to the region should also be made to the headquarters operations center.
12. In your proposed Section 6.8 d., Reporting Requirements, you deleted 10 CFR 50.59 change summaries from the list of items to be included in the annual report. Please be aware that these summaries are a requirement of 10 CFR 50.59(b)(2) and must continue to be provided to the NRC at an annual interval. Keeping this as a requirement of the annual report would insure that this regulation is met.
13. In your proposed Table of Contents, Section 6.9, Plant Operating Records does not have a page number. Please correct.