

August 10, 1992

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 (TAC NO. MB4011)

We are continuing our review of your application for amendment of Facility Operating License No. R-115 for the University of Illinois Advanced TRIGA Research Reactor which you submitted on June 9, 1992. During our review of your application, questions have arisen for which we require additional information and clarification. Please provide responses to the enclosed Request for Additional Information within 90 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, Decommissioning and
Environmental Project Directorate
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosures:
See next page

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

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Department of Nuclear Engineering
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Sincerely,

A handwritten signature in cursive script, appearing to read "Alexander Adams, Jr.", written in dark ink.

Alexander Adams, Jr., Senior Project Manager
Non-Power Reactors, Decommissioning and
Environmental Project Directorate
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosures:
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
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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 ADVANCED TRIGA REACTOR

DOCKET NO. 50-151

1. Your application refers to the verification and validation (V&V) process used by General Atomics (GA) to develop the software used in your proposed instrumentation and control (I&C) system. You state that you believe that the V&V process used by GA and reviewed by the NRC staff is transferable to the University of Illinois (UI) Advanced TRIGA I&C system. We agree with this assessment that the V&V is transferable. However, there have been changes to the software since NRC reviewed the V&V plan. Please provide a description of the changes to the software that has occurred since our review of the V&V program and the V&V performed on these changes. Also please provide a description of the configuration management control used to control the various changes and distributions.
2. The I&C systems installed as replacements for existing systems have operated in parallel with the old systems that they were to replace. This confirmed that the new system was operating satisfactorily prior to operation with the new system alone. Please confirm that you will operate the new I&C system in parallel with the existing to confirm proper operation and to gain experience with the new system. If you do not plan to operate the new I&C system in parallel, provide your detailed startup procedure for the new system. The procedure should include the methods that will validate the new system without parallel information from the old system.