

February 16, 2005

Mr. Timothy M. DeBey
Reactor Supervisor
United States Department of the Interior
U.S. Geological Survey TRIGA Research Reactor
Box 25046, MS 974
Denver Federal Center
Denver, CO 80225

SUBJECT: U.S. GEOLOGICAL SURVEY—REQUEST FOR ADDITIONAL INFORMATION
RE: AMENDMENT REQUEST FOR CONSTRUCTION PERMIT RECAPTURE
(TAC NO. MB5030)

Dear Mr. DeBey:

We are continuing our review of your amendment request for Amended Facility License No. R-113 for the United States Geological Survey TRIGA Research Reactor which you submitted on April 30, 2002. During our review of your amendment request, questions have arisen for which we require additional information and clarification. Please provide responses to the enclosed request for additional information within 60 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 amendment request.

If you have any questions regarding this review, please contact me at (301) 415-1127.

Sincerely,

/RA/

Alexander Adams, Jr., Senior Project Manager
Research and Test Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket No. 50-274

Enclosure: As stated

cc w/enclosure: See next page

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ADAMS ACCESSION NO.: ML050420027

TEMPLATE NO.: NRR-088

OFFICE	RNRP:PM	RNRP:LA	RNRP:SC
NAME	AAdams	EHylton	PMadden
DATE	2/ 15 /2005	2/ 11 /2005	2/ 15 /2005

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U.S. Geological Survey

Docket No. 50-274

cc:

Mayor
City Hall
Denver, CO 80202

Mr. Eugene W. Potter
State of Colorado
Radiation Management Program
HMWM-RM-B2
4300 Cherry Creek Drive South
Denver, CO 80246

Mr. Timothy DeBey
Reactor Director
U.S. Geological Survey
Box 25046 - Mail Stop 424
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Denver, CO 80225

Test, Research, and Training
Reactor Newsletter
University of Florida
202 Nuclear Sciences Center
Gainesville, FL 32611

REQUEST FOR ADDITIONAL INFORMATION
UNITED STATES GEOLOGICAL SURVEY TRIGA RESEARCH REACTOR
DOCKET NO. 50-274

1. Please discuss the current material condition of the confinement structure and core components.
2. Are there any major components that are replaced on an established schedule? If so, please discuss the schedule and the basis for the schedule.
3. Your application discussed maintenance and repair of equipment and the use of routine checks and inspections. Are these routine checks and inspections also used to carry out testing and calibration of systems?
4. Are any reactor components subjected to high neutron fluence that would affect the component's lifetime? If so, what is your approach to managing aging of these components?
5. Environmental dose results appears to be missing from your annual report for 2003. Please provide the missing data.
6. Please provide the results of your calculations to demonstrate compliance with 10 CFR 20.1101(d) of the dose to the individual member of the public likely to receive the highest dose from air emission of radioactive material from the GSTR to the environment for the years 2000 through 2004.
7. Please provide cubic feet and curies of solid radioactive waste shipped off-site for burial for the years 2000 through 2003.
8. Discuss the non-radiological impact that operation of the facility has on the environment. Discuss issues such as chemicals use in the research program (under the reactor license) and secondary coolant water chemical use. Describe the amount of chemical used, disposal, and introduction to and impact of the chemicals on the environment. Discuss water usage at the facility including source of supply. Discuss wastewater discharges from the facility.
9. Are there any historic properties that are impacted by operation of the facility?
10. Are there any listed plants or animals in the vicinity of the facility?