

April 2, 1992

Docket No. 50-27

Dr. Gerald E. Tripard, Director
Nuclear Radiation Center
Washington State University
Pullman, Washington 99164

Dear Dr. Tripard:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

We are continuing our review of Washington State University's (WSU's) application dated April 19, 1990 for an amendment to Facility License No. R-76 for WSU's TRIGA reactor. 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 60 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 on our review, please contact me at (301) 504-1128.

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

This request affects nine or fewer respondents and, therefore, is not subject to Office of Management and Budget review under Public Law 96-511.

Sincerely,

/s/
Marvin Mendonca, Senior Project Manager
Non-Power Reactors, Decommissioning and
Environmental Project Directorate
Division of Advanced Reactors and
Special Projects
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

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NRC & Local PDR's
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E. Hylton
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J. Reese, Reg. V

PDNP:LA
EHylton
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PDNP:PM
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PDNP:SW
SWeiss
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PDR ADOCK 05000027
P PDR

Washington State University

Docket No. 50-27

cc:

State Planning Division
Office of Financial Management
Room 105, House Office Building
Olympia, Washington 98504

REQUEST FOR ADDITIONAL INFORMATION

WASHINGTON STATE UNIVERSITY

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1. Provide changes to Table 3.2 of the Technical Specifications to account for the change in maximum allowed power level.
2. With regard to the addition of Technical Specification 3.14 on "Sealed sources in the reactor pool:"
 - a. provide safety analyses for the use of these sources. Include calculations for the maximum dose that can be expected from these sources and the reactor for both routine and accident conditions. In your analyses, include evaluation of the additional effect of sources during the design basis accident (loss of fuel clad integrity for one fuel element with the simultaneous loss of pool water). This evaluation should include assessment of the condition of the sources. That is, do the sources remain shielded and intact? Additionally, it should verify that radiological consequences remain well within regulatory limits or provide compensatory measures;
 - b. provide a revised lower limit of detection for possible failed source detection in Section 3.14 (3). The use of 10 times the value in the 10 CFR 20 Appendix B, Table II, column 2 does not appear to be consistent with ALARA requirements, that is a failed source should be dealt with as soon as possible after detection is reasonably achievable to reduce occupational exposures and effluent releases. The point at which action should be initiated is that level at which there is reasonable evidence of a damaged source; and
 - c. provide bases for this Technical Specification.
3. In addition to the change proposed on the addresses in Technical Specification Section 6.10,
 - a. "Region V Office of Inspection and Enforcement" should be referred to as "Region V Office," and
 - b. For Section 6.10 (1) "with a copy to the Director of Reactor Licensing" is not appropriate, because the position no longer exists. To continue to assure that NRC headquarters is promptly informed by WSU and to assure that NRC is promptly notified during off-normal working hours, it is suggested that you add the NRC Operations Center to this reporting requirement in addition to Region V.

REQUEST FOR ADDITIONAL INFORMATION (CONTINUED)

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- c. Reporting requirements are also specified in applicable section of specific regulations, e.g., 10 CFR 50.4 "Written communications." It may be useful to reference such requirements. Consider the appropriateness of such references.
4. Provide Technical Specification page revisions with all your proposed changes marked by vertical bars in the right side margin for all pages that are proposed to be changed by your subject request.