

**March 31, 2006**

Mr. Andrew Kauffman  
Associate Director  
Nuclear Reactor Laboratory  
Ohio State University  
1298 Kinnear Rd.  
Columbus, OH 43210

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING OHIO STATE  
UNIVERSITY RESEARCH REACTOR ENVIRONMENTAL REPORT FOR  
LICENSE R-75 RENEWAL (TAC NO. MA7724)

Dear Mr. Kauffman:

We are continuing our review of your environmental report dated August 18, 2005 for your application for renewal of Facility Operating License No. R-75, dated December 15, 1999 for the Ohio State University Research Reactor (OSURR). During our review of your environmental report, 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. Please note that your timely response is needed in order to support completion of the review of the renewal application.

Should you have any questions regarding this review, please contact William B. Kennedy, at (301) 415-2784.

Sincerely,

**/RA/**

Daniel E. Hughes, Project Manager  
Research and Test Reactors Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Docket No. 50-150

Enclosure: As stated

cc w/enclosure: Please see next page

Ohio State University

Docket No. 50-150

cc:

Ohio Department of Health  
ATTN: Radiological Health  
Program Director  
P.O. Box 118  
Columbus, OH 43216

Ohio Environmental Protection Agency  
Division of Planning  
Environmental Assessment Section  
P.O. Box 1049  
Columbus, OH 43216

Mr. Richard D. Myser  
Reactor Operations Manager  
Engineering Experiment Station  
Ohio State University  
142 Hitchcock Hall  
Columbus, OH 43210

Dr. William Vernetson  
Director of Nuclear Facilities  
Department of Nuclear  
Engineering Science  
University of Florida  
202 Nuclear Sciences Center  
Gainesville, FL 32611

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**ACCESSION NO.: ML060760109**

**TEMPLATE No.: NRR-088**

	Public	Non Public	Sensitive	Non Sensitive
OFFICE		PRT:PM	PRT:PM	PRT:LA
NAME		WKennedy*	DHughes*	EHylton:tls*
DATE		3/23/2006	3/29/2006	3/22/2006
				PRT:SC
				BThomas:tls*
				3/31/2006

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REQUEST FOR ADDITIONAL INFORMATION  
OHIO STATE UNIVERSITY RESEARCH REACTOR  
DOCKET NO. 50-150

1. Explain how OSURR ensures compliance with applicable environmental quality standards and requirements. Include discussion pertaining to the Coastal Zone Management Act (CZMA), the Endangered Species Act (ESA), and the National Historical Preservation Act (NHPA).
2. Paragraph 6 of the environmental report states, "The highest conservative estimate for a TEDE to a member of the general public is 61.47 mrem/year as calculated in procedure RS-18, Environmental Monitoring."
  - a. In accordance with 10 CFR 20.1302(b), please provide a sample calculation of a TEDE to a member of the general public. Please explain any assumptions made and measurement techniques of included data, and define all variables and constants used in the calculation.
3. Paragraph 8 of the environmental report states, "... the OSURR made transfers of solid waste to the Radiation Safety Section of the Office of Environmental Health and Safety that totaled 12 cubic feet or about 2.4 cubic feet per year of un-compacted low-level radioactive waste."
  - a. Please provide the total activity of the transferred solid waste.