

April 1, 2015

Dr. Timothy W. Koeth, Director  
Nuclear Reactor and Radiation Facilities  
Chemical and Nuclear Engineering Building 090  
University of Maryland  
College Park, MD 20742

SUBJECT: UNIVERSITY OF MARYLAND - REQUEST FOR ADDITIONAL INFORMATION  
REGARDING FINANCIAL QUALIFICATION FOR LICENSE RENEWAL FOR  
THE MARYLAND UNIVERSITY TRAINING REACTOR (TAC NO. ME1592)

Dear Dr. Koeth:

The U.S. Nuclear Regulatory Commission (NRC) is continuing its review of your application for the renewal of Facility Operating License No. R-70, for the Maryland University Training Reactor (MUTR), dated May 12, 2000 (a redacted version of the application is available on the NRC's public Web site at [www.nrc.gov](http://www.nrc.gov) under Agencywide Documents Access and Management System (ADAMS) Accession No. ML052910399), as supplemented.

The license renewal review includes an NRC staff review of the MUTR Financial Qualifications dated November 26, 2014, for compliance with the regulations contained in Title 10 of the *Code of Federal Regulations* Part 50.33(f)(2), "Contents of applications; general information". We completed our review of your Financial Qualifications and identified additional information or clarification that arose during our review. Provide responses to the enclosed request for additional information within 30 days from the date of this letter.

In accordance with Title 10 CFR 50.30(b), "Filing of application for licenses; oath or affirmation," you must execute your response in a signed, original document under oath or affirmation. Your response must be submitted in accordance with 10 CFR 50.4, "Written communications." Information included in your response that is considered sensitive or proprietary, that you seek to have withheld from the public, must be marked in accordance with 10 CFR 2.390, "Public inspections, exemptions, requests for withholding." Any information related to security should be submitted in accordance with 10 CFR 73.21, "Protection of Safeguards Information: Performance Requirements." Following receipt of the additional information, we will continue our evaluation of your renewal request.

T. Koeth

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If you have any questions, or need additional time to respond to this request, contact Eben Allen at (301) 415-4246 or by electronic mail at: [Eben.Allen@nrc.gov](mailto:Eben.Allen@nrc.gov).

Sincerely,

*/RA/*

Cindy K. Montgomery, Project Manager  
Research and Test Reactors Licensing Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Docket No. 50-166

Enclosure:  
Request for Additional Information

cc: See next page

University of Maryland Training Reactor

Docket No. 50-166

cc:

Director, Dept. of Natural Resources  
Power Plant Siting Program  
Energy & Coastal Zone Administration  
Tawes State Office Building  
Annapolis, MD 21401

Mr. Roland G. Fletcher, Program Manager IV  
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Maryland Department of Environment  
1800 Washington Blvd., Suite 750  
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Chemical and Nuclear Engineering Building 090  
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College Park, MD 20742

Mary J. Dorman  
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Professor Robert Briber  
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University of Maryland  
College Park, MD 20742-2115

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

T. Koeth

- 2 -

If you have any questions, or need additional time to respond to this request, contact Eben Allen at (301) 415-4246 or by electronic mail at: [Eben.Allen@nrc.gov](mailto:Eben.Allen@nrc.gov).

Sincerely,

**/RA/**

Cindy K. Montgomery, Project Manager  
Research and Test Reactors Licensing Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Docket No. 50-166

Enclosure:  
Request for Additional Information

cc: See next page

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**NRR-106**

<b>OFFICE</b>	NRR/PRLB/PM	NRR/DIRS/IFIB*	NRR/PRLB/LA*	NRR/PRLB/BC	NRR/DPRLB/PM
<b>NAME</b>	EAllen	KLois	ELee	AAdams	CMontgomery
<b>DATE</b>	03/13/2015	04/01/2015	03/30/2015	04/01/2015	04/01/2015

**OFFICIAL RECORD COPY**

OFFICE OF NUCLEAR REACTOR REGULATION  
REQUEST FOR ADDITIONAL INFORMATION  
FOR THE RENEWAL OF FACILITY OPERATING LICENSE NO. R-70  
THE MARYLAND UNIVERSITY TRAINING REACTOR  
DOCKET NO. 50-166

**Regulatory Basis**

Pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 50.33(f), each application shall state

Except for an electric utility applicant for a license to operate a utilization facility of the type described in § 50.21(b) or § 50.22, information sufficient to demonstrate to the Commission the financial qualification of the applicant to carry out, in accordance with regulations in this chapter, the activities for which the permit or license is sought...

Pursuant to 10 CFR 50.33(f)(2), applicants to renew or extend the term of an operating license for a non-power reactor shall include financial information that is required for an initial license. In addition to 10 CFR 50.33(f)(2), 10 CFR 50.33(f)(5) states,

The Commission may request an established entity or newly-formed entity to submit additional or more detailed information respecting its financial arrangements and status of funds if the Commission considers this information appropriate. This may include information regarding a licensee's ability to continue the conduct of the activities authorized by the license and to decommission the facility.

Section 15.2 of NUREG-1537, "Financial Ability To Operate a Non-Power Reactor," states, in part:

The applicant should discuss the sources of funding for operating costs, the amount of funding that is committed, and the amount that is potentially available; the applicant should confirm committed sources and discuss conditions under which potential sources of funding would become committed and how the facility can be safely operated if some potential sources of funding are not realized.

**Background**

NUREG -1537, Part 2, "Guidelines for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors: Standard Review Plan and Acceptance Criteria," Chapter 15 explains the process by which the staff determines if licensees meet the requirements in 10 CFR 50.33(f).

Enclosure

In its submittal for license renewal dated November 25, 2014, University of Maryland Training Reactor (MUTR) provided sources of funding to cover operation costs for its reactor. However, the licensee did not provide information to address how the facility can be safely operated if some potential sources of funding are not available.

**Request for Additional Information**

1. How would the MUTR ensure safe operation of the facility as a result of any shortfalls in potential sources of funding?