

March 22, 2005

Dr. Warren D. Reece, Director  
Nuclear Science Center  
Texas Engineering Experiment Station  
Texas A&M University System  
Texas A&M University  
1095 Nuclear Science Road  
F.E. Box 89, M/S 3575  
College Station, TX 77843-3575

SUBJECT: TEXAS A & M UNIVERSITY LICENSE RENEWAL APPLICATION—REQUEST  
FOR ADDITIONAL INFORMATION ON CHAPTER 5, REACTOR COOLANT  
SYSTEM (TAC NO. MC2315)

Dear Dr. Reece:

We are continuing our review of the Application for Renewal of License No. R-83 Docket No. 50-128 for the Texas A&M Nuclear Science Center TRIGA research reactor. The application was submitted on February 27, 2003. During our review of Chapter 5 of the Safety Analysis Report for the 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. 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 request.

If you have any questions regarding this review, please contact me at 301-415-1128.

Sincerely,

**/RA/**

Marvin M. Mendonca, 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. 50-128

Enclosure: As stated

cc with enclosure: See next page

Texas A&M University System

Docket No. 50-128

cc:

Jim Remlinger  
Nuclear Science Center  
Texas Engineering Experiment Station  
Texas A&M University  
1095 Nuclear Science Road  
College Station, Texas 77843-3575

Texas State Department of Health  
Radiation Control Program Director  
Bureau of Radiation Control  
1100 West 49<sup>th</sup> Street  
Austin, TX 78756-3189

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

U.S. Customs Service  
Safety Branch  
ATTN: Mr. Rick Whitman  
6026 Lakeside Boulevard  
Indianapolis, IN 46278

U.S. Department of Transportation  
Mr. Raymond Lamagdelaine, Special  
Investigations Chief  
Office of Hazardous Materials Enforcement  
DHR-40  
400 7<sup>th</sup> Street, S.W.  
Washington, DC 20590

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Research and Test Reactors Section  
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KWitt	PYoung			

ACCESSION NO.: ML050760276

TEMPLATE #: NRR-088

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DATE	3/ 18 /2005	3/ 18 /2005	3/ 21 /2005

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REQUEST FOR ADDITIONAL INFORMATION  
TEXAS A&M UNIVERSITY  
DOCKET NO. 50-128

1. Provide the elevation of the following locations relative to the top of the core: the normal surface of the pool water and the pipe connection to the pool at an elevation near the top of the core or below, that is not siphon/check valve protected. Include the diameter of the pipe and configuration, e.g., elbows, orifices or other restrictions, required to estimate loss of coolant rates and times.
2. Provide description of the analyses, design and procedural changes (if any) that were implemented to prevent reoccurrence of the September 17, 2004, pool leakage event.