

December 12, 2001

Dr. David M. Slaughter, Chairman, TRTR  
Director of CENTER  
122 S. Central Campus Drive, Room 104  
University of Utah  
Salt Lake City, UT 84112

SUBJECT: TRTR SURVEY ON NRC SAFEGUARDS ADVISORY

Dear Dr. Slaughter:

This letter confirms the results of a meeting with the TRTR Executive Committee in Reno, Nevada on November 10, 2001. From that meeting, I understand that TRTR will undertake a program to conduct the subject survey. In this survey, TRTR plans to request information from each operating non-power reactor licensee. The requested information will include how licensees have addressed the provisions of NRC's October 12 Safeguards Information Advisory. In addition, the survey will ask what additional measures have been or are planned to be implemented.

Also, the discussions in the meeting recognized that some information may be safeguards or proprietary, which licensees may not feel comfortable sharing with TRTR representatives. We also discussed that some licensees may wish to address these issues directly with the NRC staff. In those cases, TRTR or the licensee should discuss the issue with Mr. Marvin Mendonca of my staff.

Additionally, NRC staff plans to conduct site visits to all 2 megawatt and greater licensed power level reactors. The NRC staff will also visit selected less than 2 megawatt non-power reactors. NRC will work with TRTR to avoid duplication of effort.

Once we have gathered this information, TRTR, any licensees who want to individually participate and NRC staff will then compile the range of methods used to address the advisory's guidance. For the 2 megawatt and greater licensed power level non-power reactors, we suggest that this phase be completed by December 21, 2001. For the lower power research reactors, we would like to complete this information compilation by January 25, 2002. After consideration of this information by the NRC, the NRC staff will discuss the information with TRTR, and any licensees who want to individually participate. For the 2 megawatt and greater licensed power level non-power reactors, we suggest that this phase be completed by January 25, 2002. For the lower powered facilities, we would suggest completion of this phase by February 22, 2002.

This letter also responds to a November 9, 2001, letter from the previous TRTR Chairman on this issue. That letter, among other things, asked NRC to inform TRTR if TRTR could be of further assistance on this issue. I feel that the November 10, 2001, meeting addressed this point with TRTR's plan to conduct the subject survey.

Dr. D. M. Slaughter

-2-

In the November 9 letter, TRTR also provided judgements on the general radiological safety and safeguard requirements of the non-power reactors. As discussed in the November 10 meeting, the protection and safety of these reactors depend on facility specific conditions. As part of the subject survey process, we plan to consider not only facility specific conditions but also generic safety and safeguards implications for non-power reactors.

Should you have any questions on this matter, I would be pleased to hear from you.

Sincerely,

*/RA/*

Patrick M. Madden, Section Chief  
Non-Power Reactors and Financial Section  
Operational Experience and Non-Power Reactors Branch  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

cc: Please see next page

Mr. Ray Tsukimura, President  
Aerotest Operations Inc.  
3455 Fostoria Way  
San Ramon, CA 94583

Mr. Stephen I. Miller, Reactor Facility Director  
Armed Forces Radiobiology Research Institute  
Naval Medical Center  
8901 Wisconsin Ave.  
Bethesda, MD 20889-5603

Dr. Kenan Ünlü, Director  
Ward Center for Nuclear Sciences  
Cornell University  
105 Ward Laboratory  
Ithaca, NY 14853-7701

Mr. Ward L. Rigot, Facility Director and Reactor Supervisor  
Dow Chemical Company  
1602 Building  
Midland, MI 48674

Keith Asmussen  
General Atomics  
3550 General Atomics Courts  
P.O. Box 85608  
San Diego, CA 92186-9784

Chris Hamilton  
Vallecitos and Morris Operations  
Vallecitos Nuclear Center  
General Electric Company  
6705 Vallecitos Road  
Sunol, CA 94586

Dr. Nolan E. Hertel, Director  
Neely Nuclear Research Center  
Georgia Institute of Technology  
900 Atlantic Drive  
Atlanta, GA 30332-0425

Dr. John Bennion  
Research Reactor Facility  
College of Engineering  
Idaho State University, Box 8060  
Pocatello, ID 83209

Mr. Scott E. Wendt, Reactor Manager  
Mechanical Engineering Department  
209W Nuclear Engineering Laboratory  
Iowa State University  
Ames, IA 50011-2241

Mr. Michael Whalley, Manager  
KSU Nuclear Reactor Facility  
Department of Mechanical and Nuclear Engineering  
112 Ward Hall  
Kansas State University  
Manhattan, KS 66506-5204

Dr. Richard Heist  
Manhattan College  
Manhattan College Parkway  
Riverdale, NY 10471-4098

Dr. John Bernard, Director  
of Reactor Operations  
Nuclear Reactor Laboratory  
Massachusetts Institute of Technology  
138 Albany Street  
Mail Stop NW 12-208  
Cambridge, MA 02139

Dr. Wade J. Richards  
University of California, Davis  
McClellan Nuclear Radiation Center  
5335 Price Avenue, Bldg 258  
McClellan, CA 95652

Mr. Timothy Polich  
NASA  
Plumbrook Station  
6100 Columbus Avenue  
Sandusky, OH 44870

Dr. Seymour H. Weiss  
NIST Center for Neutron Research  
National Institute of Standards and Technology  
U.S. Department of Commerce  
Gaithersburg, MD 20899

Mr. Gerald Wicks  
Acting Associate Director  
Nuclear Reactor Program  
Department of Nuclear Engineering  
North Carolina State University  
Campus Box 7909

Raleigh, NC 27695-7909

Mr. Richard Myser, Associate Director  
Nuclear Reactor Laboratory  
Ohio State University  
1298 Kinnear Rd.  
Columbus, OH 43212-1154

Dr. Stephen E. Binney, Director  
Oregon State University  
Radiation Center, A100  
Corvallis, OR 97331-5903  
Radiation Center (541) 737-2341

Dr. C. Frederick Sears, Director  
The Pennsylvania State University  
Breazeale Nuclear Reactor  
University Park, PA 16802-1504

Dr. Robert Bean, Director, Radiation Laboratories  
1290 Nuclear Engineering Bldg.  
School of Nuclear Engineering  
Purdue University  
West Lafayette, IN 47907

Mr. Stephen G. Frantz, Director  
Reed Reactor Facility  
Reed College  
3203 SE Woodstock Blvd.  
Portland, OR 97202

Dr. Donald R. Harris, Director, Critical Facility  
Department of Nuclear Engineering and Engineering Physics Program  
Rensselaer Polytechnic Institute  
Troy, NY 12180-3590

Dr. Terence Tehan, Director  
Nuclear Science Center  
Rhode Island Atomic Energy Commission  
16 Reactor Road  
Narragansett, RI 02882

Mr. Mark Adams  
Buffalo Materials Research Center  
State University of New York  
Rotary Road  
Buffalo, NY 14214-3096

Dr. Alan Waltar  
Head of Nuclear Engineering

Texas A&M University  
Zachry Bldg. Room 129  
College Station, TX 77843-3133

Dr. Warren D. Reece, Director  
Nuclear Science Center  
Texas Engineering Experiment Station  
F. E. Box 89, M/S 3575  
College Station, TX 77843

Mr. Tim DeBey, Reactor Supervisor  
U.S. Geological Survey  
Denver Federal Center  
P.O. Box 25046, MS 974  
Denver, CO 80255-0046

University of Arizona  
Nuclear Research Laboratory  
ATTN: Mike Gavelek,, Reactor Supervisor  
Bldg. 20, Rm. 200  
Tucson, AZ 85721-0020

Dr. George E. Miller  
Department of Chemistry  
516 Physical Sciences 1  
University of California, Irvine  
Irvine, CA 92697-2025

Dr. William Vernetson  
Director of Nuclear Facilities  
102 Nuclear Reactor Bldg.  
Department of Nuclear Engineering Sciences  
University of Florida  
Gainesville, FL 32611-8300

Mr. Richard L. Holm, Reactor Administrator  
University of Illinois at Urbana-Champaign  
Department of Nuclear Engineering  
Radiation Science Laboratory  
214 Nuclear Engineering Laboratory  
103 South Goodwin Avenue  
Urbana, IL 61801-2984

Mr. Vincent G. Adams  
Associate Director-Reactor Facility  
Department of Materials and  
Nuclear Engineering  
University of Maryland  
College Park, MD 20742

Mr. Leo M. Bobek  
Nuclear Radiation Laboratory  
University of Massachusetts Lowell  
One University Avenue  
Lowell, MA 01854

Mr. C.W. Becker  
Phoenix Memorial Laboratory  
2301 Bonisteel Boulevard  
University of Michigan  
Ann Arbor, MI 48109

Mr. Ralph Butler, Interim Director  
Research Reactor Facility  
University of Missouri  
Columbia, MO 65211

Mr. William E. Bonzer, Reactor Manager  
University of Missouri, Rolla  
Nuclear Reactor Facility  
1870 Miner Circle  
Rolla, MO 65409-0630

Dr. Robert D. Busch, Chief Reactor Supervisor  
Chemical and Nuclear Engineering Department  
University of New Mexico  
209 Farris Engineering Department  
Albuquerque, NM 87131-1341

Dr. Robert U. Mulder, Director  
UVA Reactor Facility  
Department of Nuclear Engineering  
Charlottesville, VA 22903-2442

Mr. Robert J. Agasie  
Reactor Director  
Nuclear Reactor Laboratory  
1513 University Avenue, Room 141ME  
University of Wisconsin  
Madison, WI 53706-1687

Mr. John P. Claassen  
Reactor Manager/Supervisor  
Omaha Veterans Administration  
Medical Center  
4101 Woolworth Avenue  
Omaha, NE 68105

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

Mr. Richard K. Smith  
Environmental Remediation for CBS Corporation  
CBS Corporation  
Gateway Center  
11 Stanwix Street  
Pittsburgh, PA 15222

Mr. Stephen J. LaFlamme, Director  
Nuclear Reactor Facility  
Worcester Polytechnic Institute  
100 Institute Road  
Worcester, MA 01609-2280

Mr. Joseph H. Seelinger  
Office of Ship Operations  
Chief Division of Ship Maintenance and Repair (MAR-611)  
U.S. Department of Transportation  
Maritime Administration  
400 7<sup>th</sup> Street, S.W.  
Washington, DC 20590

Mr. G. A. Kuehn, Jr.  
Vice President SNEC and  
Program Director SNEC Facility  
GPU Nuclear, Inc.  
Route 441 South  
P.O. Box 480  
Middletown, PA 17057-0480

In the November 9 letter, TRTR also provided judgements on the general radiological safety and safeguard requirements of the non-power reactors. As discussed in the November 10 meeting, the protection and safety of these reactors depend on facility specific conditions. As part of the subject survey process, we plan to consider not only facility specific conditions but also generic safety and safeguards implications for non-power reactors.

Should you have any questions on this matter, I would be pleased to hear from you.

Sincerely,

*/RA/*

Patrick M. Madden, Section Chief  
Non-Power Reactors and Financial Section  
Operational Experience and Non-Power Reactors Branch  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

cc: Please see next page

**DISTRIBUTION:**

PUBLIC	REXB r/f	TDragoun	MMendonca	AAdams
Elmbro	EHylton	FGillespie	DMatthews	WEresian
Plsaac	Plsaac	PDoyle	PMadden	

**ADAMS ACCESSION NO: ML013270224**

**TEMPLATE #: NRR-056**

\*Please see previous concurrence

OFFICE	REXB:LA	REXB:PM	IOLB	REXB:SC
NAME	*EHylton:rdr	MMendonca	GTracy	*PMadden
DATE	11/ 23 /2001	12/ 12 /2001	12/ 06 /2001	12/ 06 /2001

**C = COVER**

**E = COVER & ENCLOSURE  
OFFICIAL RECORD COPY**

**N = NO COPY**