

October 24, 2011

Dr. Thomas H. Newton, Jr.  
Director of Reactor Operations  
Massachusetts Institute of Technology  
MITNRL-NW 12  
138 Albany Street  
Cambridge, MA 02139

SUBJECT: MASSACHUSETTS INSTITUTE OF TECHNOLOGY, NRC SECURITY-RELATED INSPECTION REPORT NO. 50-020/2011-204

Dear Dr. Newton:

On September 28-29, 2011, the U.S. Nuclear Regulatory Commission (NRC) conducted a security inspection at your research reactor facility. The inspection included a review of activities authorized for your facility. The enclosed report presents the results of that inspection.

The inspection examined activities conducted under your license as they relate to security and compliance with the Commission's rules and regulations, implementation of certain compensatory measures, and compliance with the conditions of your license. The inspector reviewed selected procedures and records, observed activities, and interviewed personnel. Based on the results of this inspection, no safety concerns or noncompliances with NRC requirements were identified. No response to this letter is required.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Section 2.390 "Public inspections, exemptions, requests for withholding," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room from the NRC's document system (Agencywide Documents Access and Management System (ADAMS)). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room). However, because of the security-related items contained in the enclosure, and in accordance with 10 CFR 2.390(d), a copy of this letter's enclosure will not be available for public inspection.

Should you have any questions concerning this inspection, please contact Craig Bassett at (301) 466-4495 or by electronic mail at [Craig.Bassett@nrc.gov](mailto:Craig.Bassett@nrc.gov).

Sincerely,

**/RA/**

Johnny H. Eads, Jr., Chief  
Research and Test Reactors Oversight Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Docket No. 50-020  
License No. R-37

Document transmitted herewith contains security related information. When separated from enclosures, this document is decontrolled.

Nonpublic Enclosure: As stated  
cc w/o encl: See next page

Massachusetts Institute of Technology

Docket No. 50-020

cc:

City Manager  
City Hall  
Cambridge, MA 02139

Department of Environmental Protection  
One Winter Street  
Boston, MA 02108

Mr. Robert Gallagher, Acting Director  
Radiation Control Program  
Department of Public Health  
Schrafft Center, Suite 1M2A  
529 Main Street  
Charlestown, MA 02129

Nuclear Preparedness Manager  
Massachusetts Emergency Management Agency  
400 Worcester Road  
Framingham, MA 01702-5399

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

**OFFICIAL USE ONLY – SECURITY RELATED INFORMATION**

October 24, 2011

Dr. Thomas H. Newton, Jr.  
Director of Reactor Operations  
Massachusetts Institute of Technology  
MITNRL-NW 12  
138 Albany Street  
Cambridge, MA 02139

SUBJECT: MASSACHUSETTS INSTITUTE OF TECHNOLOGY, NRC SECURITY-RELATED INSPECTION REPORT NO. 50-020/2011-204

Dear Dr. Newton:

On September 28-29, 2011, the U.S. Nuclear Regulatory Commission (NRC) conducted a security inspection at your research reactor facility. The inspection included a review of activities authorized for your facility. The enclosed report presents the results of that inspection.

The inspection examined activities conducted under your license as they relate to security and compliance with the Commission's rules and regulations, implementation of certain compensatory measures, and compliance with the conditions of your license. The inspector reviewed selected procedures and records, observed activities, and interviewed personnel. Based on the results of this inspection, no safety concerns or noncompliances with NRC requirements were identified. No response to this letter is required.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Section 2.390 "Public inspections, exemptions, requests for withholding," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room from the NRC's document system (Agencywide Documents Access and Management System (ADAMS)). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room). However, because of the security-related items contained in the enclosure, and in accordance with 10 CFR 2.390(d), a copy of this letter's enclosure will not be available for public inspection.

Should you have any questions concerning this inspection, please contact Craig Bassett at (301) 466-4495 or by electronic mail at [Craig.Bassett@nrc.gov](mailto:Craig.Bassett@nrc.gov).

Sincerely,  
**/RA/**  
Johnny H. Eads, Jr., Chief  
Research and Test Reactors Oversight Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Docket No. 50-020  
License No. R-37  
Nonpublic Enclosure: As stated  
cc w/o enclosure: See next page  
**DISTRIBUTION (w/o encl.):**

Document transmitted herewith contains security related information. When separated from enclosures, this document is decontrolled.

PUBLIC PRTA Reading File RidsNrrDprPrta RidsNrrDprPrtb  
RidsOgcMailCenter MCompton (cover letter only)(O13E19) GLappert, NRR CBassett, NRR  
AAdams, NRR WKennedy, NRR  
**Accession Nos.: P: ML112970018 L: ML112970019 E: ML112970020 (NON-PUBLIC) TEMPLATE #: NRC-002**  
**\* concurrence via e-mail**

OFFICE	PROB:RI *	PRPB:LA	PROB:BC
NAME	CBassett	GLappert	JEads
DATE	10/7/2011	10/24/2011	10/24/2011

OFFICIAL RECORD COPY