



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

February 7, 2023

Mr. John P. Foster
Director of Reactor Operations
Nuclear Reactor Laboratory
Massachusetts Institute of Technology
138 Albany Street, MS NW12-116A
Cambridge, MA 02139

SUBJECT: MASSACHUSETTS INSTITUTE OF TECHNOLOGY – U.S. NUCLEAR
REGULATORY COMMISSION ROUTINE INSPECTION REPORT
NO. 05000020/2022201

Dear Mr. Foster:

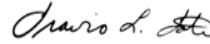
From October 24-27, 2022, the U.S. Nuclear Regulatory Commission (NRC) staff conducted an inspection at the Massachusetts Institute of Technology (MIT) reactor. The enclosed report documents the inspection results which were discussed on October 27, 2022, with you and members of the MIT staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and 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 findings of significance were identified. No response to this letter is required.

In accordance with Title 10 of the *Code of Federal Regulations*, Section 2.390, "Public inspections, exemptions, requests for withholding," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component NRC's document system (Agencywide Documents Access and Management System (ADAMS)). ADAMS is accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If you have any questions concerning this inspection, please contact Mr. Kevin Roche at 301-415-1554, or by email at Kevin.Roche@nrc.gov.

Sincerely,



Signed by Tate, Travis
on 02/07/23

Travis L. Tate, Chief
Non-Power Production and Utilization
Facility Oversight Branch
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

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

Enclosure:
As stated

cc: See next page

Massachusetts Institute of Technology

Docket No. 50-020

cc:

City Manager
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Cambridge, MA 02139

Department of Environmental Protection
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Ms. Samantha Phillips, Director
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Test, Research and Training
Reactor Newsletter
Attention: Ms. Amber Johnson
Dept of Materials Science and Engineering
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Mr. Marshall B. Wade
Reactor Superintendent
Massachusetts Institute of Technology
Nuclear Reactor Laboratory
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138 Albany Street, MS NW12-116B
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SUBJECT: MASSACHUSETTS INSTITUTE OF TECHNOLOGY – U.S. NUCLEAR
REGULATORY COMMISSION ROUTINE INSPECTION REPORT
NO. 05000020/2022201 DATED: FEBRUARY 7, 2023

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**U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REACTOR REGULATION**

Docket No.: 50-020

License No.: R-37

Report No.: 05000020/2022201

Licensee: Massachusetts Institute of Technology

Facility: Massachusetts Institute of Technology Reactor

Location: Cambridge, Massachusetts

Dates: October 24-27, 2022

Inspector: Kevin Roche
Juan Arellano

Approved by: Travis L. Tate, Chief
Non-Power Production and Utilization Facility
Oversight Branch
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Enclosure

EXECUTIVE SUMMARY

Massachusetts Institute of Technology Reactor
Inspection Report No. 05000020/2022201

The primary focus of this routine, announced inspection was the onsite review of selected elements of the Massachusetts Institute of Technology (MIT, the licensee) research reactor safety program, including: (1) operator licenses, requalification, and medical examinations, (2) effluent and environmental monitoring, (3) experiments, (4) organization and operations and maintenance activities, (5) review audit and design change functions, (6) procedures, (7) fuel movement, (8) surveillance, (9) emergency preparedness, (10) radiation protection, and (11) transportation activities. The U.S. Nuclear Regulatory Commission (NRC) staff determined the licensee's program was in compliance with NRC requirements.

Operator Licenses, Requalification, and Medical Examinations

- Licensed operator licenses, requalification and medical examinations met technical specification (TS), administrative, and regulatory requirements.

Effluent and Environmental Monitoring

- Effluent monitoring satisfied license and regulatory requirements and releases were within the specified regulatory and TS limits.

Experiments

- The program for reviewing, authorizing, and conducting experiments satisfied TS and procedural requirements.

Organization and Operations and Maintenance

- Organizational structure and staffing were consistent with TS requirements.
- Operational and maintenance activities were consistent with applicable TS and procedural requirements.

Review and Audit and Design Change Functions

- The MIT Reactor Safeguards Committee (RSC) met as required and reviewed the topics outlined in the TS.
- Annual audits of facility programs were conducted as required by TS.
- Changes to the facility were evaluated using the criteria specified in Title 10 of the *Code of Federal Regulations* (10 CFR) 50.59, "Changes, tests and experiments."

Procedures

- The licensee's procedural review, revision, and implementation program satisfied the requirements of TS.

Fuel Movement

- Fuel movements and inspections were conducted in accordance with TS and procedural requirements.

Surveillance

- The surveillance program was conducted in accordance with TS and licensee procedural requirements.

Emergency Preparedness

- The emergency preparedness program was conducted in accordance with the Emergency Plan (E-Plan), including response equipment maintenance, emergency drills, and E-Plan training.

Radiation Protection

- Surveys, postings, training, and personnel dose monitoring met regulatory requirements.
- Radiation monitoring equipment was maintained and calibrated as required by TSs.
- The radiation protection and the as low as reasonably achievable (ALARA) programs satisfied regulatory requirements.

Transportation Activities

- The program for transportation of radioactive material (RAM) satisfied U.S. Department of Transportation (DOT) and the NRC regulations.

REPORT DETAILS

Summary of Facility Status

The MIT Nuclear Reactor Laboratory 6-megawatt research reactor is routinely operated in support of training, experiments, and maintenance. During this inspection, the inspector observed reactor operations.

1. Operator Licenses, Requalification, and Medical Examinations

a. Inspection Scope (Inspection Procedure (IP) 69003)

To verify that the licensee complied with the requirements of 10 CFR Part 55, "Operators' Licenses," and TS section 7.1.5, the inspector reviewed selected aspects of the following:

- reactor digital logbook for individual operators
- procedure manual (PM) 1.16, "NRC License Training of Personnel," dated February 20, 2013
- annual written examinations 2021 - present
- annual operating examinations 2021 - present
- medical examination records 2020 - present

b. Observations and Findings

The inspector found that training was conducted in accordance with the licensee's NRC-approved requalification and training program and was documented, and that requalification records were maintained. The inspector also found medical examinations for licensed operators were completed and documented as required by the regulations.

c. Conclusion

The inspector determined that operator requalification was conducted as required by the requalification program and licensed operators met regulatory requirements.

2. Effluent and Environmental Monitoring

a. Inspection Scope (IP 69004)

To verify that the licensee complied with the requirements of 10 CFR Part 20, "Standards for Protection against Radiation," and TS section 3.7, the inspector reviewed selected aspects of:

- facility records of measurements and analysis of effluent samples
- MIT annual operating report 2021
- environmental release records
- secondary water tritium sample records
- effluent monitoring instrumentation maintenance records

b. Observations and Findings

The inspector found that environmental radiation monitoring was accomplished by use of thermoluminescent dosimeters placed within a quarter mile of the reactor, and that doses were within regulatory limits. The inspector noted that gaseous releases from the containment exhaust stack are monitored, and release amounts are calculated and documented in the annual reports; and that the airborne concentrations of the gaseous releases were within the concentrations stipulated in 10 CFR Part 20, Appendix B, Table 2.

The inspector found that the combined sources of all liquid effluent releases are within the monthly average concentration limits established in 10 CFR Part 20, Appendix B, Table 3.

c. Conclusion

The inspector determined that effluent release measurements, liquid and gas sampling analysis, and environmental monitoring measurements, demonstrated compliance with regulatory and TS limits.

3. Experiments

a. Inspection Scope (IP 69005)

To verify compliance with the licensee's procedures, TS Sections 6 and 7.5, the inspector reviewed the following:

- reactor digital logbook
- MIT annual operating report 2021
- MIT irradiation request forms from October 2021 - present
- special procedures for experiments October 2021 - present
- in-core experiment review guides
- PM 1.10, "Experimental Review and Approval," dated August 17, 2018

b. Observations and Findings

The inspector reviewed selected safety review forms and irradiation request forms for experiments performed since the last inspection. The inspector verified that experiments were reviewed, evaluated, approved, and conducted in accordance with TS requirements.

c. Conclusion

The inspector determined that the licensee's program for reviewing, authorizing, and conducting experiments satisfied the TS and procedural requirements.

4. Organization and Operations and Maintenance Activities

a. Inspection Scope (IP 69006)

To verify that the licensee complied with the requirements for organization, operations, and maintenance activities, as specified in TS sections 2, 3, 7.1, and licensee procedural requirements, the inspector reviewed selected aspects of the following:

- MIT nuclear reactor laboratory organization chart
- reactor digital logbook
- reactor job workbook
- reactor digital daily operations schedule
- "Annual Report for the MIT Research Reactor to the U.S. Nuclear Regulatory Commission for the period January 1, 2021 - December 31, 2021," dated March 31, 2021

b. Observations and Findings

The inspector found that the MIT reactor organization and shift staffing was consistent with that specified in the TS. The inspector also found that operations and maintenance activities were consistent with administrative procedures and TS, and equipment malfunctions were documented, and actions were taken in accordance with TS.

c. Conclusion

The inspector determined that the licensee's organization and staffing complied with the requirements specified in TS section 7.1, and that operational and maintenance activities were also consistent with applicable TS and procedural requirements.

5. Review and Audit and Design Change Functions

a. Inspection Scope (IP 69007)

To verify compliance with TS sections 7.2.1, 7.2.2, 7.2.3, and 10 CFR 50.59, the following documents were reviewed:

- 10 CFR 50.59 evaluations
- "Annual Report for the MIT Research Reactor to the U.S. Nuclear Regulatory Commission for the period January 1, 2021 - December 31, 2021," dated March 31, 2021
- "MIT Reactor (MITR) Annual Independent Audit Report for CY 2021," June 2022
- Draft of "Minutes of the One Hundred Fourteenth Meeting of the MIT Reactor Safeguards Committee (MITRSC)," dated December 2, 2021
- MIT Research Reactor Administrative Procedure, PM 1.13, "Quality Assurance Program," dated August 11, 2016
- MIT Research Reactor Administrative Procedure, PM 1.4, "Review and Approval of Plans, Procedures, and Facility Equipment and Changes Thereto"
- quality assurance documentation for facility modifications

- audit response to independent audit for calendar year (CY) 2021
- 2020-25, "PM 3.2.1. Shutdown from Operation at Power," dated March 23, 2021, changes to the shutdown checklist were evaluated IAW with procedures and 50.59
- 2020-19, "Update of PM 3.1.12 in support of Nuclear Safety System upgrade," dated August 28, 2020
- 2020-0, "PM 3.5 Daily Surveillance Check and PM 3.8 Makeup Water System Checklists," dated March 30, 2020
- 2018-28, "PM 6.5.6.1C and PM 6.5.6.4B Calibration of Digital Test Gauge," dated December 4, 2018
- 2017-12, "Shim Blade Electromagnets," dated March 29, 2017

b. Observations and Findings

(1) Review and Audit Functions

The inspector found that the MIT RSC meeting frequency and committee membership satisfied TS section 7.2.1, and that safety reviews and audits were completed at the required frequency for the functional areas specified by TS sections 7.2.2 and 7.2.3. The inspector reviewed the results of the audits and determined that the audit findings, and licensee actions taken in response to the findings, were appropriate.

(2) Design Change Functions

The inspector found that screening and safety review of changes, tests, and experiments was in accordance with regulatory requirements and facility procedures.

c. Conclusion

The inspector determined that the MIT review, audit, and design change programs were implemented in accordance with the TS requirements and NRC regulations.

6. Procedures

a. Inspection Scope (IP 69008)

To verify that facility procedures were prepared, reviewed, revised, and implemented as required by TS section 7.4, the inspector reviewed selected aspects of:

- MIT annual report for 2021
- safety review (SR) form number (#) 2021-30, "MCODE Isotope Extract Package"
- SR # 2021-15B, "PM 6.5.16.1A Regulating Rod Calibration by Period Measurement"
- SR # 2021-15, "PM 6.5.16.2 Shim Blade Calibration Procedure"
- SR # 2021-13, "PM 6.5.19 Calibration of Test Equipment and Tools"
- SR # 2021-09, "PM 3.1.6 Restart Following an Unanticipated or a Brief-Duration Scheduled Shutdown"
- SR # 2020-30, "PM 5.8.4 Loss of Normal Off-Site Electrical Power"
- SR # 2020-29, "PM 6.4.17 Leak Alarm"
- SR # 2020-26, "PM 3.2.2 Shutdown from Less than 100 kW Operation"
- SR # 2020-23, "PM 3.1.1.3 Cooling Tower Operation and Full Power Checks"
- SR # 2020-18, "PM 5.5.17 Low Pressure Instrument Air"

- SR # 2019-14, "PM 3.1.1.1 Two Loop Mechanical"
- PM 6.5.16.1A, "Regulating Rod Calibration by Period Measurement," dated May 20, 2021
- PM 6.5.16.2, "Shim Blade Calibration Procedure," dated May 2, 2022
- PM 6.5.19, "Calibration of Test Equipment and Tools," dated April 29, 2021
- PM 6.1.4.7, "Shim Blade Drop Time," dated March 28, 2021
- PM 3.1.6, "Restart Following an Unanticipated or a Brief-Duration Scheduled Shutdown," dated March 1, 2021
- PM 5.8.4, "Loss of Normal Off-Site Electrical Power," October 29, 2020
- PM 6.4.17, "Leak Alarm," dated October 20, 2020
- PM 3.2.2, "Shutdown from Less than 100 kW Operation," dated April 15, 2021
- PM 3.1.1.3, "Cooling Tower Operation and Full Power Checks," dated March 12, 2021
- PM 5.5.17, "Low Pressure Instrument Air," dated July 23, 2020
- PM 3.1.1.1, "Two Loop Mechanical," dated March 28, 2021
- PM 7.4.6.4, "SFP Fuel Storage Cadmium Degradation Monitoring," dated February 28, 2017

b. Observations and Findings

The inspector noted that procedure revisions were reviewed and approved by the Director of Reactor Operations and submitted to the MIT Reactor Safety Committee for review, and that all procedure changes were routinely routed to all licensed operators for review.

c. Conclusion

The inspector determined the procedural review, revision, and implementation process satisfied the TS requirements.

7. Fuel Movement

a. Inspection Scope (IP 69009)

To ensure that the licensee followed the requirements of TS sections 3.1.4, 3.1.6, 4.1.5, and 5.4, the inspector reviewed selected aspects of the following:

- SR # 2021-16, "Special Procedure for Dummy Element Transfer from the Spent Fuel Pool to the Core Tank"
- "Special Procedure for Dummy Element Transfer from the Spent Fuel Pool to the Core Tank," dated May 3, 2021
- PM 3.3.5, "Receipt and Acceptance of New Fuel," from October 2021 - present
- PM 7.4.4.2, "In-Service Inspection of Primary Core Tank Fuel, and Spent Fuel Storage Pool," January 10, 2022
- PM 3.3.1, "General Conduct of Refueling Operations," from 2022 - present
- PM 3.3.2, "General Conduct for the Removal of Spent Fuel," from 2022 - present
- PM 1.15, "Fuel Loading Permission," from October 2021 - present

b. Observations and Findings

The inspector reviewed the fuel movement process and verified that fuel manipulations were conducted in accordance with established procedures. The inspector also reviewed records of selected fuel movements and interviewed MIT reactor personnel. The inspector noted that a plan for each series of fuel movements was developed prior to the activity and were used for core refueling, core rearrangement, and inspections of fuel elements.

c. Conclusion

The inspector determined that fuel movements were conducted in accordance with written procedures that met the TS requirements and fuel inspections were completed annually.

8. Surveillance

a. Inspection Scope (IP 69010)

To verify that the licensee met the surveillance requirements specified in TS section 4, the inspector reviewed selected aspects of the following:

- reactor job workbook
- reactor digital daily operations schedule
- reactor digital logbook
- "Annual Report for the MIT Research Reactor to the U.S. Nuclear Regulatory Commission for the period January 1, 2021 - December 31, 2021," dated March 31, 2021
- MIT logbook "System Tests and Calibration Logbook" (in the control room)
- PM 3.1.1, "Full Power Startup Checklist"
- 6.1.3.9, "Quarterly Battery Surveillance," completed February 7, 2022
- 6.1.3.9 for August 1, 2022, showed 10 cells H.O.O.S. but then procedures signed off
- 6.1.3.6, "Reactor Building Overpressure Scram," completed June 30, 2022
- 6.1.6, "Monthly Technical Specifications Tests," completed August 5, 2022
- 6.1.3.3.B, "Primary Coolant Flow Scram Static Calibration (MF-1A, MF-1B) (Procedure using the Transmation Model 190 Calibrator)," completed January 20, 2022
- 6.2.1, "Main Personnel Air Lock Gaskets Deflated Scram," completed December 23, 2021

b. Observations and Findings

The inspector found that surveillance tests and surveillances were completed as required by TS and licensee procedures, and that limiting conditions for operations were satisfied.

c. Conclusion

The inspector determined that the surveillance program was conducted as specified by TS requirements.

9. Emergency Preparedness

a. Inspection Scope (IP 69012)

The inspector reviewed selected aspects of the following to verify compliance with the licensee's E-Plan and associated procedures:

- PM 4.0, "MITR Emergency Plan and Procedures," dated October 7, 2019
- letter of agreement (LOA) with Massachusetts General Hospital, dated April 11, 2016
- LOA with Mount Auburn Hospital, dated December 1, 2013
- LOA with City of Cambridge Fire Department, dated August 6, 2018
- LOA with City of Cambridge Police Department, dated February 12, 2016
- LOA with Professional Ambulance company, dated February 10, 2019
- memorandums detailing annual operator review of emergency plan and procedures 2020 - present
- PM 3.7.1, "Weekly Security," 2022 - present
- evacuation siren tests contained in PM 3.1.1.2, "Two Loop Instrumentation"
- 2021 combined medical/radiological emergency exercise documentation
- personnel in the December 15, 2021 medical/radiological emergency drill documentation
- City of Cambridge Fire Department training records
- NW12 MIT Police training records
- PM 6.6.2.4 Inventory of Emergency Supplies and Equipment, dated April 6, 2022

b. Observations and Findings

The inspector reviewed the MIT E-Plan and implementing procedures and verified, through discussions with the licensee, that no changes to the E-Plan were made since the last inspection in accordance with 10 CFR 50.54(q) "Emergency plans." The inspector also reviewed the training records, E-Plan exercise records, staffing requirements, off-site support, emergency equipment maintenance, and observed the testing of a weekend alarm.

c. Conclusion

The inspector determined that the licensee maintained its emergency preparedness program in accordance with its E-Plan requirements.

10. Radiation Protection

a. Inspection Scope (IP 69012)

To verify that the licensee followed the requirements of TS section 7.3, 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," and 10 CFR Part 20 the inspector reviewed selected aspects of the following:

- personnel dosimetry reports
- facility areas, equipment, operations, and postings
- "Annual Report for the MIT Research Reactor to the U.S. Nuclear Regulatory Commission for the period January 1, 2021 - December 31, 2021," dated March 31, 2021
- MIT ALARA program reviews for 2021
- MIT independent annual audits for 2021
- instrument calibration records
- employee radiological training records
- MIT ALARA policy
- radiological survey records

b. Observations and Findings

(1) Surveys

The inspector found that periodic contamination and radiation surveys were completed in accordance with radiation protection procedures, and that survey results were documented and posted so that facility personnel would be knowledgeable of the radiological conditions that existed in the controlled areas of the facility.

(2) Postings and Notices

The inspector observed that NRC Form 3, "Notice to Employees," was prominently posted as required by 10 CFR 19.11, "Posting of notices to workers," and that radiological signs were also posted as required by 10 CFR 20.1902, "Posting requirements."

(3) Dosimetry

The inspector observed that dosimetry use was in accordance with facility procedures and dose limits to workers and the public were within 10 CFR Part 20 limits.

(4) Radiation Monitoring Equipment

The inspector found that installed and portable radiation monitoring equipment was calibrated in accordance with TS and facility procedures.

(5) Radiation Protection Training

The inspector reviewed the general employee radiation protection training given to MIT staff members, to those authorized to use the experimental facilities of the reactor, to students, and to visitors, and that training was in accordance with facility procedures and regulatory requirements.

c. Conclusion

The inspector determined that: (1) surveys were completed and acceptably documented in accordance with radiation protection procedures to permit evaluation of the radiation hazards present, (2) postings and notices met regulatory requirements, (3) personnel dosimetry was worn as required by facility procedures and recorded doses were within the NRC's regulatory limits, (4) radiation survey and monitoring equipment was maintained and calibrated as required by TS and facility procedures, (5) the radiation safety training program was implemented in accordance with procedures, and (6) the radiation protection and ALARA programs satisfied regulatory requirements.

11. Transportation Activities

a. Inspection Scope (IP 86740)

The inspector reviewed the following documents to verify compliance with NRC and DOT regulations governing the transportation of RAM as specified in 10 CFR Part 20 and 10 CFR Part 71, "Packaging and Transportation of Radioactive Material," and in 49 CFR Parts 171-178:

- RAM shipping papers and related records
- training records for individuals designated as "shippers"
- annual DOT RAM shipping audits for 2021
- "Annual Report for the MIT Research Reactor to the U.S. Nuclear Regulatory Commission for the period January 1, 2021 - December 31, 2021," dated March 31, 2021

b. Observations and Findings

The inspector found that the licensee shipped various types of RAM since the last inspection of this area. The inspector noted that shipping records were complete, and the shipping containers were labeled correctly.

The inspector verified that the licensee maintained copies of consignees' RAM possession licenses, and that training for staff members involved in the shipment of RAM was performed.

c. Conclusion

The inspector determined that the program for transportation of RAM satisfied the DOT and NRC regulations.

12. Exit Interview

The inspection scope and results were summarized on October 27, 2022, with members of licensee management. The inspector discussed the areas inspected and the inspection observations. The licensee acknowledged the results of the inspection and did not identify as proprietary any of the material provided to or reviewed by the inspector during the inspection.

PARTIAL LIST OF PERSONS CONTACTED

Licensee Personnel

T. Bork	Reactor Utilization Manager
D. Cormel	Project Technician
J. Foster	Director, Reactor Operations
S. Hauptman	Reactor Engineer
E. Lau	Associate Director, Reactor Operations
W. McCarthy	Deputy Director, Environment, Health, and Safety
S. Tucker	Quality Assurance Supervisor
M. Wade	Superintendent of Operations

INSPECTION PROCEDURES USED

IP 69003	Class I Research and Test Reactor Operator Licenses, Requalification, and Medical Examinations
IP 69004	Class I Research and Test Reactor Effluent and Environmental Monitoring
IP 69005	Class I Research and Test Reactor Experiments
IP 69006	Class I Research and Test Reactors Organization and Operations and Maintenance Activities
IP 69007	Class I Research and Test Reactor Review and Audit and Design Change Functions
IP 69008	Class I Research and Test Reactor Procedures
IP 69009	Class I Research and Test Reactor Fuel Movement
IP 69010	Class I Research and Test Reactor Surveillance
IP 69011	Class I Research and Test Reactor Emergency Preparedness
IP 69012	Class I Research and Test Reactors Radiation Protection
IP 86740	Inspection of Transportation Activities

ITEMS OPENED, CLOSED, AND DISCUSSED

Open

None

Closed

None