



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

December 14, 2017

Mr. Mitchell S. Galanek
MIT Radiation Protection Officer
77 Massachusetts Avenue
Room N52-496
Cambridge, MA 02139

SUBJECT: RENEWAL OF MASSACHUSETTS INSTITUTE OF TECHNOLOGY SPECIAL
NUCLEAR MATERIAL LICENSE (SNM-986) (COST ACTIVITY CODE L60428)

Dear Mr. Galanek:

In accordance with your application dated February 24, 2016 (Agencywide Documents Access and Management System [ADAMS] Accession Number ML16081A294), and pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 70, Special Nuclear Materials (SNM) License SNM-986 is hereby renewed for a 10-year term with an expiration date of December 13, 2027.

Accordingly, License Condition (LC) 10 approves the use of licensed materials as described in your application dated February 24, 2016 (ADAMS ML16081A294 [non-public]), and supplemented on December 7, 2016 (ADAMS ML16343A813 contains ML16343A811 [public] and ML16343A812 [non-public]), December 13, 2016 (ADAMS ML17011A326 contains ML17011A327 [public] and ML17011A328 [non-public]), February 13, 2017 (ADAMS ML17047A571 [non-public]), and March 1, 2017 (ADAMS ML17066A318 [non-public]). In addition to the application revisions, a response to a Request for Additional Information was received on October 26, 2016, ADAMS ML16302A013 (non-public).

License Conditions 6, 7, 8, 10, and 12 authorize the chemical and/or physical forms of byproduct, source, and/or SNM, the possession limits, the authorized uses of licensed materials, and the quantities of licensed materials designated for storage only, as described in your application and supplemental information.

The License has not been modified since its 2006 renewal (ADAMS ML072630108 [public] and ML060110450 [non-public]). Two changes are being made to License SNM-986:

- 1) The authority to use materials under this license at Lincoln Laboratory in Lexington, Massachusetts is deleted from LC 9, based on the Massachusetts Institute of Technology's (MIT's) statements in the response to a October 26, 2016 Request for Additional Information (ADAMS ML16302A018). The use of SNM-986 materials at any location other than those described in LC 9 will require a License Amendment Request.
- 2) LC 12 is modified to identify the SNM that MIT has designated for storage at its facilities. The Physical Security Plan (PSP), approved under License No. R-37, was reviewed as a part of this renewal and applies to all materials under license

SNM-986. The licensee shall fully implement and maintain all provisions of the PSP and as it may be further revised in accordance with the provisions of 10 CFR Paragraph 50.54(p) and 10 CFR 70.32(e).

All other LCs remain the same.

Enclosed are copies of the Safety Evaluation Report (SER) (Enclosure 1) and Materials License SNM-986 (Enclosure 2). Enclosures 3 and 4 are publicly available versions of the SER and Materials License SNM-986.

In accordance with 10 CFR Section 2.390 of the U.S. Nuclear Regulatory Commission's (NRC's) "Agency Rules of Practice and Procedure," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's document system ADAMS. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>. Enclosures 1 and 2 are non-public and will be withheld from the public in accordance with 10 CFR 2.390(d).

If you have any questions regarding this matter, please contact Mr. Tyrone Naquin of my staff by phone at (301) 415-7352 or via e-mail to Tyrone.naquin@nrc.gov.

Sincerely,

/RA/

Craig G. Erlanger, Director
Division of Fuel Cycle Safety, Safeguards,
and Environmental Review
Office of Nuclear Material Safety
and Safeguards

Docket No. 70-938
License No. SNM-986

Enclosures:

1. Safety Evaluation Report (Non-Public)
2. License SNM-986 (Non-Public)
3. Safety Evaluation Report (Public)
4. License SNM-986 (Public)

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DATED: December 14, 2017

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