

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the U.S. Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee	
1. MASSACHUSETTS INSTITUTE OF TECHNOLOGY	3. License Number SNM-986 Amendment 1
2. 77 Massachusetts Avenue	
Room N52-496	4. Expiration: December 13, 2027
Cambridge, Massachusetts 02139-4307	5. Docket Number: 70-938

- | 6. Byproduct, Source and/or
Special Nuclear Material | 7. Chemical and/or Physical
form | 8. Maximum that Licensee
May Possess at Any One
Time Under This License |
|---|--|---|
| A. Uranium enriched to ≤ 2 wt
% in the U-235 isotope | A. UO ₂ Pellets, clad in steel,
aluminum, or zircalloy | A. |
| B. Uranium enriched to ≤ 2 wt
% in the U-235 isotope | B. Metal or UO ₂ slugs, foils,
pellets or other shapes, clad | B. |
| C. Uranium enriched to ≤ 2 wt
% in the U-235 isotope | C. Metal or UO ₂ solid slugs,
foils, pellets or other shapes,
clad | C. |
| D. Uranium enriched to ≤ 93 wt
% in the U-235 isotope | D. Metal, UO ₂ , and other
compounds and alloys, solid
slugs, foils, fission chambers,
pellets, and other shapes clad
and unclad, as laboratory
solids and solutions | D. |

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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|---|--|---|
| E. Plutonium | E. Pu-Be neutron source and Pu-Al neutron filter | E. |
| F. Plutonium | F. Solid Alpha Source | F. |
| G. Plutonium | G. Solid foils and pellets | G. |
| H. Natural Uranium | H. Solid and Solution | H. |
| I. Deleted | I. Deleted | I. Deleted |
| J. Any byproduct material unseparated and contained in any of the above | J. Separated | J. Quantities produced during irradiation |
| K. U-233 | K. Solid | K. |
| L. Plutonium | L. Any | L. |
9. Authorized place of use: The MIT Campus, Cambridge, Massachusetts and the Bates Linear Accelerator, Middleton, Massachusetts.
10. Authorized use: For use in accordance with statements, representations, and conditions contained in the renewal application dated February 24, 2016; and supplements dated October 28, 2016; December 7, 2016; February 13, 2017; March 1, 2017; and October 25, 2017.
11. This license does not authorize the insertion of licensed material into a nuclear reactor.
12. As it pertains to License SNM-986 materials, the following quantities of licensed material are designated for storage only: The Physical Security Plan (PSP), approved by the Commission 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 in effect all provisions of the PSP and as it may be further revised in accordance with the provisions of 10 CFR 50.54(p) and 10 CFR 70.32(e).

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FOR THE NUCLEAR REGULATORY COMMISSION

Date: January 16, 2018By: /RA/

Robert K. Johnson, Chief
Fuel Manufacturing Branch
Division of Fuel Cycle Safety, Safeguards,
and Environmental Review
Office of Nuclear Material Safety
and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

