

**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 Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p align="center">Licensee</p> <p>1. Massachusetts Institute of Technology</p> <p>2. 77 Massachusetts Avenue, Room N52-496 Cambridge, Massachusetts 02139-4307</p>	<p>3. License Number SNM-986</p> <hr/> <p>4. Expiration Date March 31, 2016</p> <hr/> <p>5. Docket No. 70-938 Reference No.</p>
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6. Byproduct Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum amount that Licensee May Possess at Any One Time Under This License
A. Uranium enriched to $\leq$ wt% in the U-235 isotope	A. UO <sub>2</sub> pellets, clad in steel, aluminum, or zircaloy	A.
B. Uranium enriched to $\leq$ wt% in the U-235 isotope	B. Metal or UO <sub>2</sub> slugs, foils, pellets and other shapes, clad	B.
C. Uranium enriched to $\leq$ wt% in the U-235 isotope	C. Metal or UO <sub>2</sub> solid slugs, foils, pellets and other shapes, unclad	C.
D. Uranium enriched to $\leq$ wt% in the U-235 isotope	D. Metal, UO <sub>2</sub> and other compounds and alloys, solid slugs, foils, fission chambers, pellets, and other shapes clad and unclad, as laboratory solids and solutions	D.

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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, pellets                         | G. |
| H. Natural uranium  | H. Solid and solution                            | H. |
| I. Depleted uranium   | I. Any   | I. |
| J. Any byproduct material unseparated contained in any of the above | J. Unseparated                                   | J. |
| K. U-233  | K. Solid   | K. |
| L. Plutonium  | L. Any   | L. |
9. Authorized place of use: The MIT Campus, Cambridge, Massachusetts; Bates Linear Accelerator, Middleton, Massachusetts; and the Lincoln Laboratory, Lexington, Massachusetts.
10. Authorized use: For use in accordance with statements, representations, and conditions contained in the renewal application dated April 29, 2004; and supplements dated March 30, September 28, November 30, and December 21, 2005; January 9, and March 20, 2006. The following quantities of licensed material are designated for storage only:
11. This license does not authorize the insertion of licensed material into a nuclear reactor.

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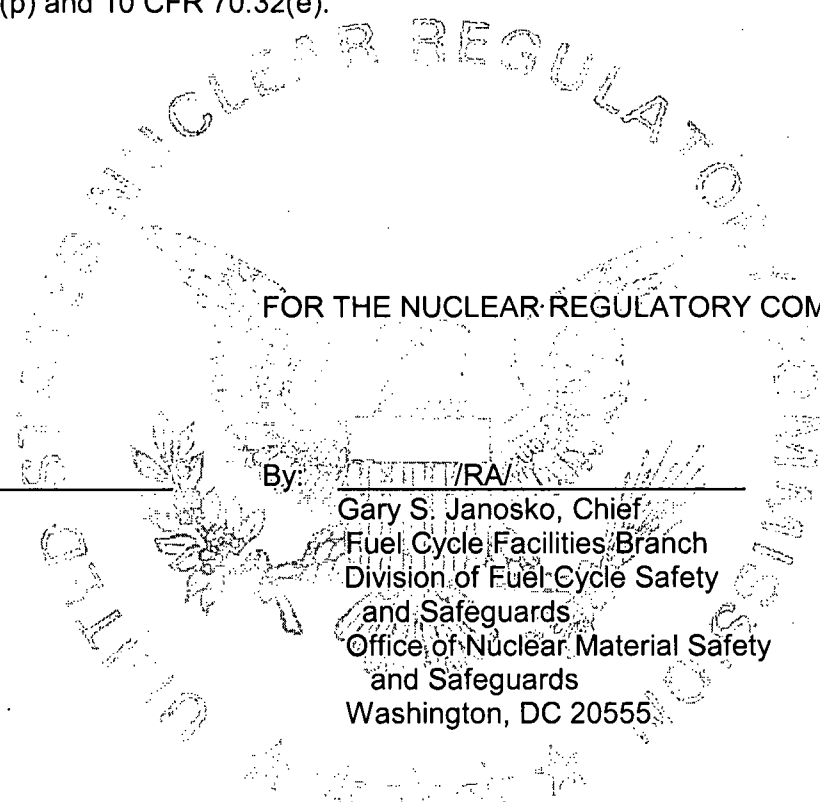
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12. As it pertains to License SNM-986

licensee shall fully implement and maintain in effect all provisions of the Physical Security Plan, entitled "Physical Security Plan for the MIT Research Reactor Facility," approved by the Commission under License No. R-37; and as it may be further revised in accordance with the provisions of 10 CRF 50.54(p) and 10 CFR 70.32(e).



FOR THE NUCLEAR REGULATORY COMMISSION

Date: 04/03/06

By: [Signature] / RA

Gary S. Janosko, Chief  
Fuel Cycle Facilities Branch  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards  
Washington, DC 20555