

MATERIALS LICENSE

Amendment No. 16

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, 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.

Licensee		In accordance with letter dated November 19, 1990,	
1. Massachusetts Eye & Ear Infirmary		3. License number 20-01212-10 is amended in its entirety to read as follows:	
2. 243 Charles Street Boston, Massachusetts 02114		4. Expiration date March 31, 1994	
		5. Docket or Reference No 030-01833	
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. Hydrogen 3	A. Any	A. 250 millicuries	
B. Carbon 14	B. Any	B. 20 millicuries	
C. Sodium 24	C. Any	C. 10 millicuries	
D. Phosphorus 32	D. Any	D. 20 millicuries	
E. Phosphorus 33	E. Any	E. 10 millicuries	
F. Sulfur 35	F. Any	F. 20 millicuries	
G. Potassium 42	G. Any	G. 20 millicuries	
H. Calcium 45	H. Any	H. 5 millicuries	
I. Chromium 51	I. Any	I. 20 millicuries	
J. Rubidium 86	J. Any	J. 10 millicuries	
K. Iodine 125	K. Any	K. 10 millicuries	
9. Authorized use			
A. through K. Research and development as defined in 10 CFR 30.4.			

CONDITIONS

10. Licensed material may be used only at the licensee's facilities at 243 Charles Street, Boston, Massachusetts.
11. A. Licensed material shall be used by, or under the supervision of, Peter John Anderson, Usha P. Andley, Edward V. Crean, James E. Dutt, Thaddeus P. Dryja, Kristine Erikson-Lamy, John J. Guinan, Jr., Cynthia Heth, Terri McGee, Soon Jin Lee, Joyce Rappaport, Dorothy J. Roof, John K. Wolfe, David Yandell, and Lucy H. Y. Young..
- B. The Radiation Safety Officer for this license is John P. McGillivray.
12. The licensee shall not use licensed material in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

20-01212-10

Docket or Reference number

030-01833

Amendment No. 16

(Continued)

CONDITIONS

13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.
14. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory.
15. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days for decay-in-storage before disposal in ordinary trash provided:
 - A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.
 - B. Before disposal as normal waste, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated November 30, 1987
 - B. Letter dated February 25, 1988
 - C. Letter dated May 10, 1988
 - D. Letter dated August 3, 1988
 - E. Letter dated December 6, 1988
 - F. Letter dated October 5, 1990
 - G. Letter dated November 10, 1990

For the U.S. Nuclear Regulatory Commission

Original Signed By:

By John D. Kinneman

Nuclear Materials Safety Branch
Region I

King of Prussia, Pennsylvania 19406

Date APR 29 1991