

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, 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 application dated February 19, 1985	
1.	Department of the Navy Naval Sea Systems Command Detachment Radiological Affairs Support Office Yorktown, Virginia 23691	3. License number	45-07740-04 is amended in its entirety to read as follows:
2.		4. Expiration date	July 31, 1989
		5. Docket or Reference No.	030-21085
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. Americium 241:Be	A. Sealed neutron sources (Monsanto Model MRC-N-SS-W-AMBE)	A. Not to exceed 2.52 curies per source	
B. Cesium 137	B. Sealed sources (ICN Model 375)	B. Not to exceed 52 millicuries per source	
C. Cesium 137	C. Sealed sources (New England Nuclear Model NER 401H)	C. Not to exceed 10 millicuries per source	
D. Hydrogen 3	D. Any	D. 5 millicuries	
E. Any byproduct material with Atomic Nos. 3-94, inclusive	E. Sealed, plated, or liquid sources; or other calibration standards	E. 10 millicuries	
F. Americium 241	F. Custom plated sources (Eberline Analytical)	F. Not to exceed 15 microcuries per source	
G. Any byproduct material with Atomic Nos. 3-83, inclusive	G. Sealed or plated sources contained in Naval commodities or devices	G. 2 curies total; not to exceed 1 millicurie per commodity or device, except: Hydrogen 3-500 millicuries Krypton 85-25 millicuries Promethium 147-25 millicuries	
H. Any byproduct source or special nuclear material	H. Analytical, environmental or biological samples	H. See 9.H below	
9. Authorized use	8510070565 850924 NMSS LIC30 45-07740-04 PDR		
A. For storage only.			
B. through F. For use in instrument calibration and standardization for use in training and demonstration.			
G. For possession incident to laboratory analysis; for use in training and demonstration.			
H. For possession incident to analysis of leak test samples from sealed sources; and quantitative and qualitative radionuclide analysis of samples.			

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CONDITION

10. Licensed material shall be used only at the licensee's facilities located at the Naval Weapons Stations, Yorktown, Virginia.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision of, Roy H. Smith, William J. Morris, or Troy R. Blanton.
13. A. (1) Each sealed source containing licensed material, other than hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
(3) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.

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13. continued

- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region II, 101 Marietta Street, Suite 2900, Atlanta, Georgia 30323, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

14. Sealed sources containing licensed material shall not opened.

15. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of sealed sources and the date of the inventory.

16. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated May 17, 1984; letter dated June 29, 1984; and application dated February 19, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

SEP 24 1984
DATE _____

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original Signed By
BY L. Bruce Carrico

Material Licensing Branch
Division of Fuel Cycle and
Material Safety
Washington, D. C. 20555