

Amendment No. 26

## 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 letter dated April 23, 1985,	
1. Department of the Navy Naval Damage Control Training Center		3. License number 37-05293-01 is amended in its entirety to read as follows:	
2. U. S. Naval Base Philadelphia, Pennsylvania 19112		4. Expiration date	June 30, 1988
		5. Docket or Reference No.	030-00975
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. Cesium 137	A. Sealed source (Isotopes Specialties Type 65)	A. Not to exceed 100 millicuries per source	
B. Cobalt 60	B. Sealed source (U. S. Radium, Model LAB-355-A)	B. Not to exceed 50 millicuries per source	
C. Hydrogen 3	C. Sealed source (U. S. Radium, Model LAB-508-2)	C. Six (6) sources, not to exceed 1200 millicuries per foil	
9. Authorized use			
A. and B. For use in the training of personnel in the use of radiac instruments.			
C. For use in Chemical Agent Point Detector System, Model AE-23D-3.			

## CONDITIONS

10. Licensed material shall be used only at the Naval Damage Control Training Center, U. S. Naval Base, Philadelphia, Pennsylvania.
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, individuals designated by the Commanding Officer, Naval Damage Control Training Center.

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Not Any To Regulate

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

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CONDITIONS

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) 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 microcuries 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.
- C. If the test reveals the presence of 0.005 microcuries 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 I, 631 Park Avenue, King of Prussia, Pennsylvania, 19406, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
- E. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated May 23, 1983 for analysis by Radiac Repair Facility, U.S. Naval Shipyard, Philadelphia, Pennsylvania.

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14. Sealed sources containing licensed material shall not be 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 23, 1983; and letters dated April 23, 1985 and May 14, 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.

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

DATE July 12, 1985

BY

*John W. T. Nick*  
Material Licensing Branch  
Division of Fuel Cycle and  
Material Safety  
Washington, D. C. 20555

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John,

This plan  
is OK.  
JD 7/5/85

3 July 85

I talked to Steve about this case. Source & device is not on our registry. Information allegedly sent to us by the USAF/Army is not here. We can not evaluate source/device based on information presented by the applicant. I suggest we do the following.

1. Authorize 2 detection systems for training/research at Phila.
2. Cover letter to Bureau + copy to CDR Bell indicating that the Navy must submit a package that will allow us to evaluate the device and put it on the device registry if they desire more of them in the Navy.  
Note: Application indicates that they plan on putting these on ships in '86-'87

Shall we proceed in this fashion?

Jim