



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Center for Coastal Environmental Health and Biomolecular Research  
219 Fort Johnson Road  
Charleston, South Carolina 29412-9110  
November 18, 2015

Licensing Assistance Team  
Division of Nuclear Materials Safety  
U.S. Nuclear Regulatory Commission  
Region I  
415 Allendale Road  
King of Prussia, PA 19406-1415

Br. 2  
030-17547

REC'D 11 24 15 9M0706

RE: license # 39-19399-02

Dear Sir/Madam:

Please be advised I will resign as RSO for license # 39-19399-02 effective December 1, 2015. Future point of contact should be with the laboratory director, Mr. Paul Comar. Mr. Comar can be contacted at the above address or at (843)762-8558.

Respectfully,

John A. Bemiss  
Radiation Safety Officer

589457

NUCLEAR MATERIALS-002

**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 style="text-align: center;">Licensee</p> <p>1. U.S. Department of Commerce, NOAA National Ocean Service</p> <p>2. 219 Fort Johnson Road Charleston, South Carolina 29412-9110</p>	<p>In accordance with the application dated March 14, 2012,</p> <p>3. License number 39-19399-02 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date November 30, 2021</p> <hr/> <p>5. Docket No. 03017547 Reference No.</p>
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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. 50 millicuries
B. Carbon 14	B. Any	B. 50 millicuries
C. Phosphorus 32	C. Any	C. 20 millicuries
D. Chromium 51	D. Any	D. 10 millicuries
E. Nickel 63	E. Sealed Source (U.S. Radium Model LAB 508-3, New England Nuclear Model NER-004, Amersham Model NBC)	E. 15 millicuries

9. Authorized use:
- A. through D. Research and development as defined in 10 CFR 30.4.
  - E. Possession and storage only.

**CONDITIONS**

- 10. Licensed material may be used or stored only at the licensee's facilities located at the National Ocean Service, 219 Fort Johnson Road and the Hollings Marine Laboratory, 331 Fort Johnson Road, Charleston, South Carolina.
- 11. A. The Radiation Safety Officer for this license is John A. Bemiss.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
39-19399-02Docket or Reference Number  
03017547

Amendment No. 27

- B. Licensed material shall be used by, or under the supervision of, John A. Bemiss, Frances M. Van Dolah, Margaret Peden-Adams, Ph.D., Todd Leighfield, Patricia A. Fair, Ph.D., or Natasha D. White, Ph.D.
- C. Licensed material in items 6. A and 6.B may also be used by, or under the supervision of Marie DeLorenzo
12. The licensee shall not use licensed material in or on human beings.
13. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.
14. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- C. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- D. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- F. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
39-19399-02

Docket or Reference Number  
03017547

Amendment No. 27

G. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.

- 15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- 16. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, 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 and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
- 17. Maintenance, repair, cleaning, replacement, and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:

- A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
  - B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and
  - C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date of disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.
- 19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
39-19399-02

Docket or Reference Number  
03017547

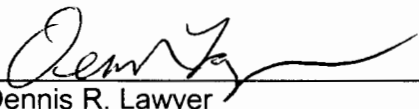
Amendment No. 27

20. 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 U.S. 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. Letter dated July 8, 2009 [ML091950145]
  - B. Application June 15, 2011 [ML111730309]
  - C. Letter received November 2, 2011 [ML113070244]

For the U.S. Nuclear Regulatory Commission

Date April 11, 2012

By

  
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 Dennis R. Lawyer  
 Commercial and R&D Branch  
 Division of Nuclear Materials Safety  
 Region I  
 King of Prussia, Pennsylvania 19406

Wednesday, April 11, 2012 06:46:03

This is to acknowledge the receipt of your letter application dated

11/18/2015, and to inform you that the initial processing which includes an administrative review has been performed.

39-19399-02 (Amendment)  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 589451  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.