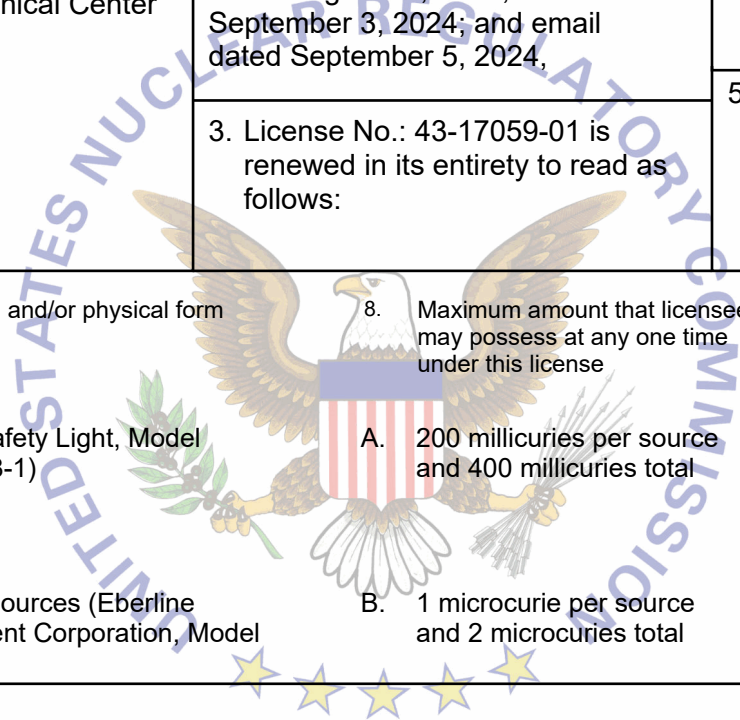


MATERIALS LICENSE

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, 37, 39, 40, 70 and 71, 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 Labor, OSHA Technical Center</p> <p>2. 8660 South Sandy Parkway Sandy, UT 84070-6424</p>		<p>In accordance with applications dated August 20, 2024, and September 3, 2024; and email dated September 5, 2024,</p>	<p>4. Expiration Date: September 30, 2039</p>
		<p>3. License No.: 43-17059-01 is renewed in its entirety to read as follows:</p>	<p>5. Docket No.: 030-12126 Reference No.:</p>
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Hydrogen-3</p> <p>B. Americium-241</p>	<p>7. Chemical and/or physical form</p> <p>A. Foils (Safety Light, Model LAB-508-1)</p> <p>B. Plated Sources (Eberline Instrument Corporation, Model DNS-5)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 200 millicuries per source and 400 millicuries total</p> <p>B. 1 microcurie per source and 2 microcuries total</p>	<p>9. Authorized use</p> <p>A. For storage only (no use) in Thermo Environmental Instruments, Inc., formerly known as Analytical Instrument Development (AID), Model 511 gas chromatography devices.</p> <p>B. For use as calibration and/or reference standards.</p>



**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License No.: 43-17059-01

Docket or Reference No.:
030-12126

Amendment No. 17

CONDITIONS

10. Licensed material shall be used or stored at the licensee's facilities located at 8660 South Sandy Parkway, Sandy, Utah, 84070-6424.
11. Licensed material shall only be used by, or under the supervision of:
- | <u>Authorized Users</u> | <u>Material and Use</u> |
|-------------------------|-------------------------|
| Philip A. Smith | All licensed material |
12. The Radiation Safety Officer (RSO) for this license is Jeffrey C. Lodwick, Ph.D., CHP.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. 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 by 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.
- D. 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.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License No.: 43-17059-01

Docket or Reference No.:

030-12126

Amendment No. 17

- E. 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.
- F. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) 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.
- G. Analysis of leak test samples and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is authorized to collect leak test samples but not perform the analysis.
- H. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
14. Sealed sources, foil sources, or detector cells containing licensed material shall not be opened or sources removed from source holders, or foil sources removed from detector cells by the licensee, except as specifically authorized.
15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 3 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.
16. 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.

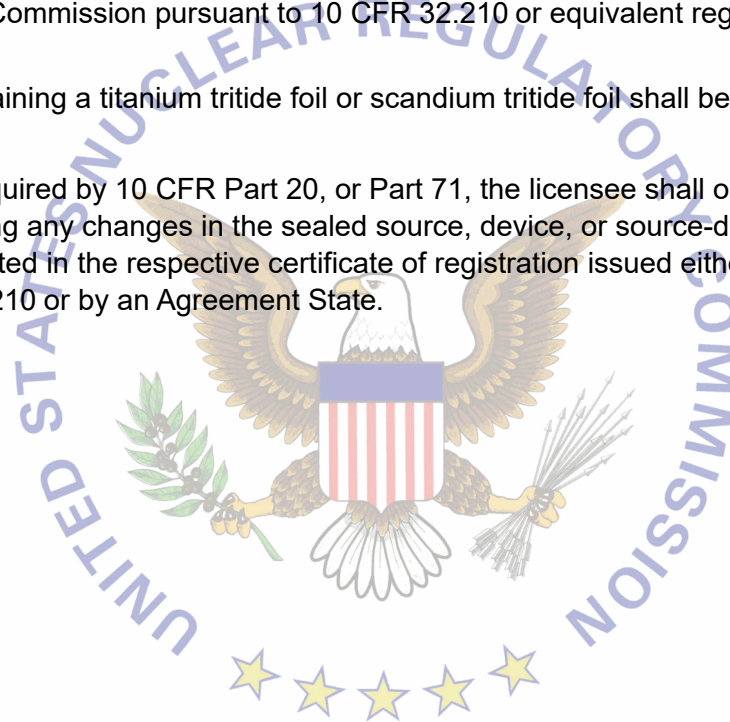
**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License No.: 43-17059-01

Docket or Reference No.:
030-12126

Amendment No. 17

17. A. Detector cells containing a titanium tritide foil or scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism that prevents the foil temperature from exceeding that specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations from an Agreement State.
- B. When in use, detector cells containing a titanium tritide foil or scandium tritide foil shall be vented to the outside.
18. Except for maintaining labeling as required by 10 CFR Part 20, or Part 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective certificate of registration issued either by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or by an Agreement State.



**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License No.: 43-17059-01

Docket or Reference No.:
030-12126

Amendment No. 17

19. 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. This license condition applies only to those statements, representations, and procedures that are required to be submitted in accordance with the regulations. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence impose on the licensee requirements that are more restrictive than or in addition to the regulations.
- A. Application dated August 20, 2024 (ML24234A117) and revised application dated September 3, 2024 (ML24247A327)
 - B. Email dated September 5, 2024 (ML24249A144)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: September 5, 2024By: _____
Roberto J. Torres
Region IV