

**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. Photon Measurements Plus Edward E. Wroblewski, M.A.</p> <p>2. 17520 Dartown Road, #31 Westfield, IN 46074</p>	<p>In accordance with letter dated March 26, 2018.</p>	<p>4. Expiration Date: January 31, 2025</p>
	<p>3. License number: 13-32533-01 is amended in its entirety to read as follows:</p>	<p>5. Docket No.: 030-36648 Reference No.:</p>

<p>6. Byproduct, source, and/or special nuclear material</p>	<p>7. Chemical and/or physical form</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p>	<p>9. Authorized use</p>
<p>A. Any byproduct material with Atomic Numbers 1 through 83</p>	<p>A. Any</p>	<p>A. 1 millicurie total</p>	<p>A. For use in performing leak tests as a commercial service for any person as defined in 10 CFR 30.4.</p>
<p>B. Cobalt-57</p>	<p>B. Sealed Sources (Capintec, Inc., Model CRC-165E)</p>	<p>B. 7 millicuries total</p>	<p>B. For use in commercial instrument calibrations.</p>
<p>C. Barium-133</p>	<p>C. Sealed Sources (Capintec, Inc., Model CR-178E)</p>	<p>C. 280 microcuries total</p>	<p>C. For use in commercial instrument calibrations.</p>
<p>D. Cesium-137</p>	<p>D. Sealed Sources (QSA Global, Inc., Model 77302)</p>	<p>D. 165 millicuries total</p>	<p>D. For use in a QSA Global, Inc. Model 773 calibration device for commercial instrument calibrations.</p>

**CONDITIONS**

10. A. Licensed material listed in Subitem Nos. 6.A. through 6.C. shall be used or stored only at the licensee's facilities located at 308 East 191st Street, Westfield, Indiana.

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- B. Licensed material listed in Subitem Nos. 6.B. and 6.C. may be used at temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States. If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.
- C. Licensed material listed in Subitem No. 6.D. may be used or stored only at the licensee's facilities located at St. Vincent Hospital & Health Care Center, 2001 West 86th Street, Indianapolis, Indiana.
11. The Radiation Safety Officer (RSO) for this license is Edward E. Wroblewski, M.A.
12. Licensed material shall only be used by, or under the supervision of, the following individuals for the materials and uses indicated:
- | <u>Authorized Users</u>       | <u>Material and Use</u>   |
|-------------------------------|---|
| William K. Breeden, III, M.S. | All   |
| Ryan Couevas                  | Cesium-137 for instrument calibration as listed in Subitem No. 6.D. |
| Edward E. Wroblewski, M.A.    | All   |
13. The licensee is authorized to provide commercial instrument calibration services in accordance with procedures described in letter dated March 12, 2014.
14. A. Sealed sources 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. 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.

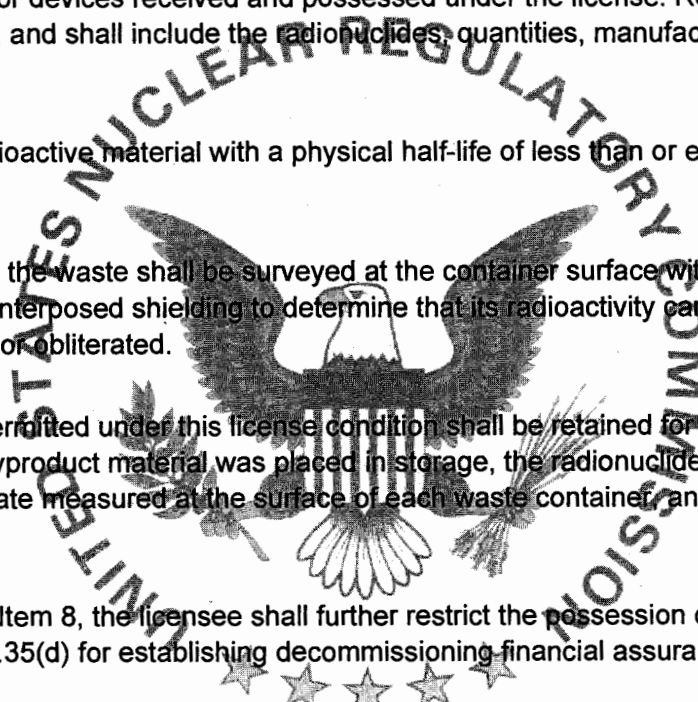
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- C. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material 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 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.
- F. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- G. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 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 not use the licensed material in or on humans.
17. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.

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18. 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.
19. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
  - B. A record of each such disposal permitted under this license condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
20. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
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21. 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 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 are more restrictive than the regulations.
- A. Application dated September 29, 2014 (ML14276A262)
  - B. Letter dated March 12, 2014 (ML14077A578)
  - C. Letter dated December 15, 2014 (ML14352A413)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: June 20, 2018By: Frank P. D. Tran  
Region 3