

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, 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. Photon Measurements Plus Edward E. Wroblewski, M.A. 2. 1427 West 86th Street, Suite 282 Indianapolis, Indiana 46260</p>	<p>In accordance with letter dated March 28, 2016,</p> <p>3. License No. 13-32533-01 is amended in its entirety to read as follows:</p> <p>4. Expiration Date: January 31, 2025</p> <p>5. Docket No. 030-36648 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with Atomic Nos. 1 through 83</p> <p>B. Cobalt-57</p> <p>C. Barium-133</p> <p>D. Cesium-137</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Sealed source (Capintec, Inc. Model No. CRC-165E</p> <p>C. Sealed source (Capintec, Inc. Model No. CR-178E</p> <p>D. Sealed source (QSA Global, Inc. Model 77302</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 1 millicurie total</p> <p>B. Not to exceed 7 millicuries total</p> <p>C. Not to exceed 280 microcuries total</p> <p>D. Not to exceed 165 millicuries total</p>
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9. Authorized Use:
- A. For use in performing leak tests as a commercial service for any person as defined in 10 CFR 30.4.
 - B. through D. For use in commercial instrument calibrations.

CONDITIONS

10. A. Licensed material listed in Subitem Nos. 6.A – 6.C. shall be used or stored only at the licensee's facilities located at 308 East 191st Street, Westfield, Indiana.
- B. Licensed material listed in Subitem Nos. 6.B. and 6.C. may be used at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of license material.

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C. Licensed material listed in Subitem No. 6.D. is for use in a QSA Global, Inc. Model 773 calibration device and may be used or stored only 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 be by, or under the supervision of, **the following individuals for the materials and uses indicated:**

Authorized User**Material and Use**

Edward E. Wroblewski, M.A.

All

William K. Breeden, III, M.S.

All

Ryan Couevas**Cesium-137 for instrument calibration as listed in Subitem No. 6.D. and Condition 10.C.**

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 six months or at such other intervals as 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 six months, or at such other intervals as 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 leak 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 no 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.

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- 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.
- G. Records of leak test results shall be kept in units of microcuries and shall be maintained for three years.
15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. Licensed material shall not be used in or on humans.
17. The licensee shall not acquire licensed material in a sealed source or device that contains a sealed source unless the source or device has been registered with the U. S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.
18. The licensee shall conduct a physical inventory every six months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for five 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, byproduct material 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 disposal permitted under this License Condition shall be retained for three 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. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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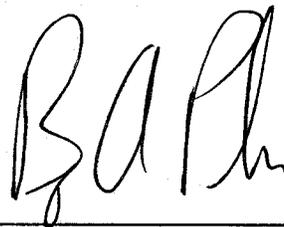
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21. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U. S. Nuclear 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 JUL 27 2016

By

Bryan A. Parker
Materials Licensing Branch
Region III