

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>Licensee</p> <p>1. North Pass Ltd., dba HiViz Shooting Systems</p>	<p>In accordance with letter dated November 7, 2016</p>	<p>4. Expiration Date: December 31, 2024</p>	
<p>2. 620 South Adams Street Laramie, WY 82070</p>	<p>3. License number: 49-35184-01 is amended in its entirety to read as follows:</p>	<p>5. Docket No.: 030-38781 Reference No.:</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Hydrogen-3</p>	<p>7. Chemical and/or physical form</p> <p>A. Gas (mb-Microtec, Model 400/1; SRB Technologies, Model Type MH and RH)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 36.2 millicuries per source and 900 curies total</p>	<p>9. Authorized use</p> <p>A. See Condition 10</p>

CONDITIONS

10. (1) Research and development as defined in 10 CFR 30.4. (2) For possession and use incident to installation in gun sights for exempt distribution. (Sealed sources are not identified by specific manufacturer model numbers because they will be distributed under an exempt distribution license, and will be identified on that license). (3) For storage prior to distribution of sealed sources. (4) For packaging and distribution of sealed sources to persons exempt from the requirements for a license pursuant to 10 CFR 30.19, or equivalent provisions of the regulations of any Agreement State. (5) For use in calibration of licensee's instruments. (6) For storage as radioactive wastes. (7) For return of sealed sources to the licensee's facility at 620 South Adams Street Laramie, Wyoming, for storage prior to disposal.
11. Licensed material may be used or stored at the licensee's facilities located at: 620 South Adams Street, Laramie, Wyoming.

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12. A. Licensed material shall be used by, or under the supervision and in the presence of, individuals who have received training described in application dated September 16, 2014.
- B. The Radiation Safety Officer (RSO) for this license is Jason D Webb.
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.
- 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.

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- 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. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 1600 East Lamar Boulevard, Arlington, Texas 76011-4511, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- G. 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.
- H. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
14. Licensed material shall not be used in or on human beings.
15. The licensee shall not use licensed material in field applications where activity is released to the environment except as provided otherwise by specific condition of this license.
16. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
17. Radioactive waste generated shall be stored in accordance with the statements, representations and procedures described in the licensee's application dated September 16, 2014.
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 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.

