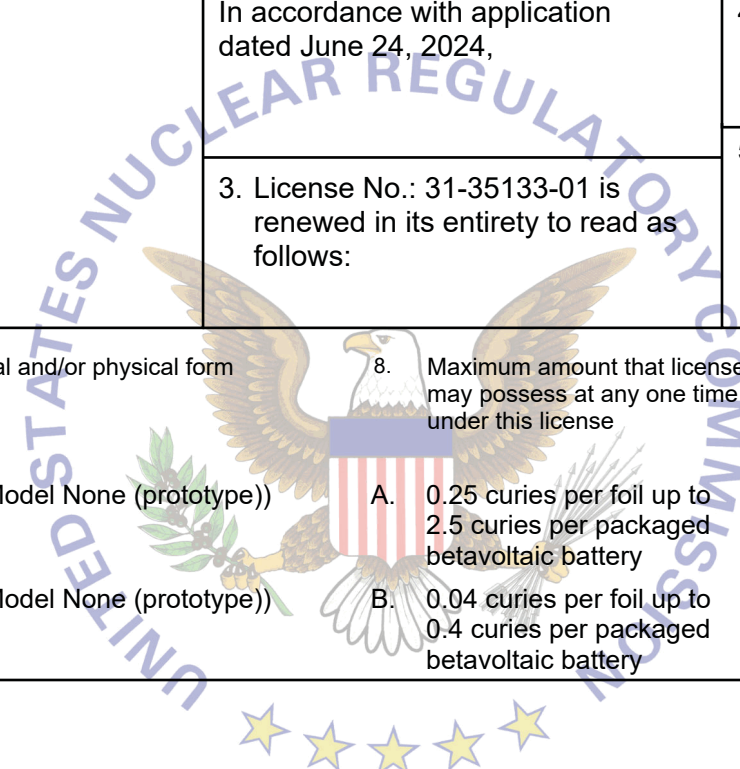


**MATERIALS LICENSE**

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. Widetronix, Inc.</p> <p>2. 950 Danby Road Suite 139 Ithaca, NY 14850</p>		<p>In accordance with application dated June 24, 2024,</p>	<p>4. Expiration Date: December 31, 2039</p>
		<p>3. License No.: 31-35133-01 is renewed in its entirety to read as follows:</p>	<p>5. Docket No.: 030-38719 Reference No.:</p>
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Hydrogen-3</p> <p>B. Nickel-63</p>	<p>7. Chemical and/or physical form</p> <p>A. Foils (Model None (prototype))</p> <p>B. Foils (Model None (prototype))</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 0.25 curies per foil up to 2.5 curies per packaged betavoltaic battery</p> <p>B. 0.04 curies per foil up to 0.4 curies per packaged betavoltaic battery</p>	<p>9. Authorized use</p> <p>A. Demonstration of betavoltaic batteries in research and development at temporary job sites.</p> <p>B. Demonstration of betavoltaic batteries in research and development at temporary job sites.</p>



**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License No.: 31-35133-01

Docket or Reference No.:  
030-38719

Amendment No. 1

**CONDITIONS**

10. Licensed material may be used only 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 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 should be obtained from the appropriate state regulatory agency.
11. Licensed material shall only be used by, or under the supervision of: Christopher Thomas, PhD.
12. The Radiation Safety Officer (RSO) for this license is Christopher Thomas, PhD.
13. Batteries containing licensed materials shall not be opened or sources removed from the batteries by the licensee at temporary job sites.
14. This license does not authorize commercial distribution of licensed materials.
15. The licensee shall not use the licensed material in or on humans.
16. 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.
17. 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.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License No.: 31-35133-01

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030-38719

Amendment No. 1

- 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. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- 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 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. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License No.: 31-35133-01

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Amendment No. 1

18. 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 6/24/2024 (ML24318A013) and letter dated 11/22/2024 (ML24346A346)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Randolph C. Ragland

Digitally signed by Randolph C.  
Ragland  
Date: 2024.12.16 17:11:56 -05'00'

By: \_\_\_\_\_

Randolph C Ragland  
Region 1Date: December 16, 2024