



Allnex - Willow Island
 252 Heilman Ave.
 Belmont, WV 26134
 304-665-1641
 304-665-1621
 www.allnex.com

July 17, 2017

Materials Security and Industrial Branch
 Division of Nuclear Materials Safety
 U. S. Nuclear Regulatory Commission
 Region 1
 2100 Renaissance Boulevard, Suite 100
 King of Prussia, PA 19406-2713

REC-0610718-17AM1022

Br. 2

RE: Request for License Amendment
Materials License No. 47-35056-01/03038632

Gentlemen:

The purpose of this letter is to request an amendment to the above referenced materials license as described below.

1. We are in the process of purchasing one new device to be used on site and need to add the following:

Byproduct Material	Form	Maximum Activity
Cesium-137	Sealed Source Holder (Vega Model SHLD1).	1 source not to exceed 10 mCi (.037 GBq).

To be used in a 10 mCi (0.37 GBq) Cs-137 sealed source, in a VEGA Model SHLD1 source holder device, for level measurement of process material.

All other conditions of the license, previously submitted procedures and/or representations remain the same. If you have any questions, please contact me at 304-665-1635. We appreciate your assistance in this matter.

Sincerely,

Douglas M. Rexroad II
 SHE Manager / RSO

600192
NNSC/RGN MATERIALS-002

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, 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. Allnex</p> <p>2. 252 Heilman Avenue Belmont, West Virginia 26134</p>	<p>In accordance with the letter received May 8, 2015,</p> <p>3. License number 47-35056-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date May 31, 2023</p> <hr/> <p>5. Docket No. 030-38632 Reference No.</p>
--	--

- | | | |
|---|--|---|
| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium 137</p> | <p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (Texas Nuclear Models 57157C and 696894; Ohmart/Vega Model A-2102; QSA Global Model CDC.711M)</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 425 millicuries total and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State</p> |
|---|--|---|

9. Authorized use:

- A. In Texas Nuclear Models 5202, 5205 and 5206, and Ohmart/Vega Model SHFx series fixed gauging devices for controlling industrial processes.

CONDITIONS

10. Licensed material may be used or stored only at the licensees facilities located at 252 Heilman Avenue, Belmont, West Virginia.
11. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in the application dated March 25, 2013, and have been designated, in writing, by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
12. The Radiation Safety Officer for this license is Douglas M. Rexroad, II.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
47-35056-01Docket or Reference Number
030-38632

Amendment No. 03

13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals 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 the intervals 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 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.
- D. 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.
- E. Tests for leakage and/or contamination, limited to leak test sample collection, 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. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
14. The licensee shall conduct a physical inventory every six 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 5 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.
15. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
47-35056-01

Docket or Reference Number
030-38632

Amendment No. 03

16. A. Each gauge shall be tested for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed 6 months or at such longer intervals as specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or the equivalent regulations of an Agreement State.
- B. Notwithstanding the periodic on-off mechanism (shutter) and indicator test, the requirement does not apply to gauges that are stored, not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic test shall be tested before use.
17. The following services shall not be performed by the licensee: Installation, initial radiation surveys, relocation, removal from service, dismantling, alignment, replacement, disposal of the sealed sources and non-routine maintenance or repair of components related to the radiological safety of the gauge. These services shall be performed only by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
18. The licensee may initially mount a gauge if permitted by the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State and under the following conditions:
- A. The gauge must be mounted in accordance with written instructions provided by the manufacturer;
- B. The gauge must be mounted in a location compatible with the "Conditions of Normal Use" and "Limitations and/or Other Considerations of Use" in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State;
- C. The on-off mechanism (shutter) must be locked in the off position, if applicable, or the source must be otherwise fully shielded;
- D. The gauge must be received in good condition (i.e., package was not damaged); and
- E. The gauge must not require any modification to fit in the proposed location.
- Mounting does not include electrical connection, activation or operation of the gauge. The source must remain fully shielded and the gauge may not be used until it is installed and made operational by a person specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such operations.
19. A. The licensee may maintain, repair, or replace device components that are not related to the radiological safety of the device and that do not result in the potential for any portion of the body to come into contact with the primary beam or in increased radiation levels in accessible areas.
- B. The licensee may not maintain, repair, or replace any of the following device components: the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, or shielding, or any other component related to the radiological safety of the device, except as provided otherwise by specific condition of this license.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
47-35056-01

Docket or Reference Number
030-38632

Amendment No. 03

20. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the U.S. Nuclear Regulatory Commission or an Agreement State.
21. The licensee shall operate each device containing licensed material within the manufacturer's specified temperature and environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
22. The licensee shall assure that the shutter mechanism, for each device containing licensed material, is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify, as appropriate, its lock-out procedures whenever a new device is obtained to incorporate the device manufacturer's recommendations.
23. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
24. 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 March 25, 2013 (ML13095A365)
 B. Letter dated April 25, 2013 (ML13119A304)
 C. Letter dated June 24, 2013 (ML13190A370)

For the U.S. Nuclear Regulatory Commission

Date June 8, 2015

By *Original signed by John Miller*
 John Miller
 Commercial, Industrial, R&D and Academic Branch
 Division of Nuclear Materials Safety
 Region I
 King of Prussia, Pennsylvania 19406



ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

Name and Address of Applicant and/or Licensee

Allnex
ATTN: Gus Barbarito, Plant Manager
252 Heilman Avenue
Belmont, WV 26134

Date

July 19, 2017

License Number(s)

47-35056-01

Mail Control Number(s)

600192

Licensing and/or Technical Reviewer or Branch

Commercial, Industrial, R&D, & Academic Branch
(Branch 2)

This is to acknowledge receipt of your: Letter and/or Application Dated: 07/17/2017

The initial processing, which included an administrative review, has been performed.

Amendment Termination New License Renewal

There were no administrative omissions identified during our initial review.

This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Your application for a new NRC license did not include your taxpayer identification number. Please complete and submit NRC Form 531, Request for Taxpayer Identification Number, located at the following link: <http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>
Follow the instructions on the form for submission.

The following administrative omissions have been identified:

Your application has been assigned the above listed MAIL CONTROL NUMBER. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region I
U. S. Nuclear Regulatory Commission
Division of Nuclear Materials Safety
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713
(610) 337-5260, (610) 337-5313,
(610) 337-5398, or (610) 337-5239