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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.

Licensee

1. Advanced Gauging Technologies, LLC

2. 8430 Estates Ct.
Plain City, OH 43064In accordance with application dated
October 26, 2023,3. License No.: 34-32021-02
is renewed in its entirety to read
as follows:

4. Expiration Date: May 31, 2039

5. Docket No.: 030-35194
Reference No.:6. Byproduct, source,
and/or special nuclear
material

7. Chemical and/or physical form

8. Maximum amount that licensee
may possess at any one time
under this license

9. Authorized use

A. Any byproduct
material with Atomic
Nos. 1 through 96

A. Analytical samples

A. Not to exceed 10
microcuries per sample.
Total: 1 millicurieA. For possession incident to the
performance of test for leakage on
customers sealed sources as a
commercial service.

B. Americium-241

B. Sealed sources (Eckert &
Ziegler Isotope Products,
Model Am1.G44; QSA Global,
Inc., Model AMC.19)B. 1 curie per source and 1
curie totalB. For use and/or possession incident to
non-routine maintenance or repair of
components related to the radiological
safety of Advanced Gauging
Technologies Model AGT 400 gamma
gauging devices.

C. Americium-241

C. Sealed sources (Eckert &
Ziegler Isotope Products,
Model Am1.G44; QSA Global,
Inc., Model AMC.19)C. 1 curie per source and 1
curie totalC. For use and/or possession incident to
non-routine maintenance or repair of
components related to the radiological
safety of Gamma Instruments, Inc.,
Model GR 100 gamma gauging
devices.

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- | | | | |
|---|---|--|---|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form | 8. Maximum amount that licensee may possess at any one time under this license | 9. Authorized use |
| D. Americium-241 | D. Sealed sources (Eckert & Ziegler Isotope Products, Model Am1.G55) | D. 4 curies per source and 4 curies total | D. For use and/or possession incident to non-routine maintenance or repair of components related to the radiological safety of Gamma Instruments, Inc., Model GR 104 gamma gauging devices. |
| E. Americium-241 | E. Sealed sources (Gamma Industries, Inc., Model NB (HP); QSA Global, Inc., Model AMC.19) | E. 1 curie per source and 1 curie total | E. For use and/or possession incident to non-routine maintenance or repair of components related to the radiological safety of Data Measurement Corporation Model AM-5A thickness gauge source holders. |
| F. Americium-241 | F. Sealed sources (QSA Global, Inc., Model AMC.30) | F. 3 curies per source and 3 curies total | F. For use and/or possession incident to non-routine maintenance or repair of components related to the radiological safety of Data Measurement Corporation Model AM-3E thickness gauge source holders. |
| G. Americium-241 | G. Sealed sources (ABB, Inc., Model S-16; Eckert & Ziegler Isotope Products, Model Am1.G44, Am1.G55 or Am1.G66; QSA Global, Inc., Model AMC.19, AMC.30, AMC.50) | G. 1 curie per source and 1 curie total | G. For use and/or possession incident to non-routine maintenance or repair of components related to the radiological safety of BSK Industries Model I-1000-1 thickness/transmission gauging devices. |

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H. Americium-241	H. Sealed sources (Eckert & Ziegler Isotope Products, Model Am1.G44; QSA Global, Inc., Model AMC.19)	H. 1 curie per source and 1 curie total	H. For use and/or possession incident to non-routine maintenance or repair of components related to the radiological safety of Global Gauge Corporation Model SH-6000 C-Arm or fixed frame thickness gauging devices.
I. Strontium-90	I. Sealed sources (Eckert & Ziegler Isotope Products, Model SIF.D1)	I. 100 millicuries per source and 100 millicuries total	I. For use and/or possession incident to non-routine maintenance or repair of components related to the radiological safety of Global Gauge Corporation Model SH-6090 C-Arm or fixed frame thickness gauging devices.
J. Americium-241	J. Sealed sources (DuPont Merck, Model NER-479C; QSA Global, Inc., Model AMC.19)	J. 1 curie per source and 1 curie total	J. For use and/or possession incident to non-routine maintenance or repair of components related to the radiological safety of Lockheed Martin Tactical Systems Model 5310 gamma gauging devices.
K. Iron-55	K. Sealed sources (Amersham, Model IEC.D2)	K. 100 millicuries per source and 100 millicuries total	K. For use and/or possession incident to non-routine maintenance or repair of components related to the radiological safety of Loral Control Systems Model 5320 source housings.

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CONDITIONS

10. This license does not authorize commercial distribution of licensed material.
11. Licensed material may be used or stored 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.
12. The Radiation Safety Officer (RSO) for this license is Scott A. Cook.
13. Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in the revised application dated March 12, 2024 and letter dated April 4, 2024, and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for three years following the last use of licensed material by the individual.

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14. 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 six 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.
- 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 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.
- E. Analysis of leak test samples and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is authorized to collect leak test samples but not perform the analysis.
- F. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for three years.

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15. Sealed sources containing licensed material shall not be opened or removed from source holders by the licensee, except as specifically authorized.
16. Prior to initial use or return to service 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.
17. Prior to initial use or return to service after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, each gauge shall be tested for the proper operation of the on-off mechanism (shutter) and indicator, if any. This test shall be performed only by persons authorized to perform such services by the U.S. Nuclear Regulatory Commission or an Agreement State.
18. Except for maintaining labeling as required by 10 CFR Part 20, or Part 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective certificate of registration issued either by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or by an Agreement State.
19. 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 in 10 CFR 30.35(d) for which decommissioning financial assurance is required.

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20. 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. Revised application dated March 12, 2024 (ML24072A518), excluding Appendix B
- B. Letter dated April 4, 2024 (ML24100A057), excluding Appendix B, Section 9, Facilities and Equipment
- C. Letter dated April 17, 2024 (ML24109A049)

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

Bryan A.

Digitally signed by
Bryan A. Parker

Date: 2024.05.29

11:27:07 -04'00'

By:

Bryan A. Parker
Region III

Date: May 29, 2024