


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.

Licensee 1. Geoinstruments Logging, LLC 2. P.O. Box 630184 Nacogdoches, Texas 75963	In accordance with application dated November 17, 2010 3. License number 42-29371-01 is amended in its entirety to read as follows: 4. Expiration date May 31, 2020 5. Docket No. 030-38202 Reference No.
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6. Byproduct, source, and/or special nuclear material A. Hydrogen-3	7. Chemical and/or physical form A. Gas; titanium, scandium, and/or zirconium tritide neutron generator tube (Thermo MF Physics Corporation, Transitional Metal tritide thin films plated on copper or molybdenum substrates)	8. Maximum amount that licensee may possess at any one time under this license A. Not to exceed 3 curies per tube and 36 curies total.
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9. Authorized use: A. To be used in a Thermo MF Physics Corporation Model A-3062 neutron generator tube for mineral well logging.	
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CONDITIONS

10. Radioactive material shall be used only at the following locations:
- Temporary job sites in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed materials, including areas of exclusive Federal jurisdiction with 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 questions 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 shall be obtained from the appropriate state regulatory agency.
11. The licensee shall not vacate or release to unrestricted use a field office or storage location whose address is identified in Condition 10, without prior U.S. Nuclear Regulatory Commission approval.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
42-29371-01

Docket or Reference Number
030-38202

Amendment No. 2

12. The licensee shall notify U.S. Nuclear Regulatory Commission of the opening of additional field offices in non-Agreement States within 7 days thereafter.
13. A. Licensed materials shall be used by, or under the supervision and in the physical presence of, or individuals who have been trained as specified in the application dated December 3, 2009, and letter dated March 22, 2010.
- B. The Radiation Safety Officer for this license is James Turner.
14. Each source holder or logging tool containing radioactive material shall bear a legible and visible marking as specified in 10 CFR 39.31(a). The label must be on the smallest component that contains the licensed materials which is transported as a separate piece of equipment.
15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. The licensee shall comply with the "Limitations and/or other considerations of use" described in the Sealed Source and Device Registration certificate CO-1012-D-101-S when operating the neutron generator tube authorized under Conditions 6.A., 7.A., 8.A., and 9.A.
17. 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 December 3, 2009 [ML093641059]
B. Letter dated March 22, 2010 [ML100980585]
C. Letter dated August 19, 2010 [ML102580280]
D. Application dated November 17, 2010 [ML103430089]

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date December 9, 2010

By

/RA/

Michelle Simmons, Health Physicist
Nuclear Materials Safety Branch B
Region IV
Arlington, Texas 76011-4125