

MATERIALS LICENSE

Amendment No. 1

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, 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		In accordance with application dated December 30, 1985
1. Camco Wireline, Inc.		3. License number 50-21388-01 is amended in its entirety to read as follows:
2. P.O. Box 4-1551 Anchorage, Alaska 99509		4. Expiration date November 30, 1988
		5. Docket or Reference No. 030-20591
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
A. Americium 241	A. Sealed sources (Garmatron, Inc., Model AN-HP)	A. Not to exceed 250 millicuries per source
B. Americium 241	B. Sealed neutron sources (Gulf Nuclear, Inc., Model NEEI-AmBe-71-1)	B. Not to exceed 3 curies per source
C. Cesium 137	C. Sealed sources (Gulf Nuclear, Inc. Model VL-1)	C. Not to exceed 100 millicuries per source
D. Iodine 131	D. Any	D. 30 millicuries
E. Cesium 137	E. Sealed sources (Gulf Nuclear, Inc. Model CSV)	E. Not to exceed 20 millicuries per source
9. Authorized use		
A., B., C., and E. For use in oil and gas well logging.		
D. For use in tracer studies in oil and gas wells.		

CONDITIONS

10. Licensed material may be used at the licensee's facilities located on Spline Road, Prudhoe Bay, Alaska, and 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.

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(continued)

11. Licensed material shall be used by, or under the supervision and in the physical presence of, David A. Nyberg, Bill C. Ochiltree, David J. Tousley, Gary M. Rigdon, or Jerry L. Weiser.
12. A. The source(s) specified in Item(s) 7.A through 7.E. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.

B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.

C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U. S. Nuclear Regulatory Commission, Region V; Nuclear Materials Safety and Safeguards Branch; 1450 Maria Lane, Suite 210; Walnut Creek, California 94596. 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.

D. The licensee is authorized to collect leak test samples for analysis by Gulf Nuclear, Inc., or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
13. Sealed sources containing licensed material shall not be opened.
14. The licensee shall report by telephone within 24 hours to the nearest U. S. Nuclear Regulatory Commission Regional Office, the loss or potential abandonment down-hole of any sealed source containing licensed material. In addition, a written report shall be submitted within 30 days for the lost or abandoned source which shall include information regarding isotope, amount, location, depth, method of immobilization, sealing, placarding, and notations to be placed in public records.
15. The licensee shall conduct a physical inventory every six (6) months to account for all sources and/or devices received and possessed under the license. Records of the inventories shall be maintained for two (2) years from the date of each inventory.

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16. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
17. Each source holder and logging tool containing radioactive material shall bear a legible and visible marking. The marking shall bear the conventional radiation symbol and the following wording: IF FOUND - DANGER - RADIOACTIVE - DO NOT HANDLE - NOTIFY CIVIL AUTHORITIES.
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. The 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 May 31, 1983
 - B. Letter dated September 25, 1983
 - C. Application dated December 30, 1985

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 23 1986

By Beth A. Riedlinger
Health Physicist (Licensing)
Nuclear Materials Safety Section
Region V