

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, 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.

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| Licensee | | In accordance with letter dated April 26, 1985 | |
| 1. Prairie Investors dba Prairie Wireline Service | | 3. License number 25-17317-01 is amended in its entirety to read as follows: | |
| 2. P. O. Box 1564 Billings, Montana 59501 | | 4. Expiration date July 31, 1987 | |
| | | 5. Docket or Reference No. 030-12546 | |
| 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 neutron source (Nuclear Sources and Services Model AN-HP, Gulf Nuclear Model NEEI-AmBe-71-1, Gamma Industries Model NB(HP)) | A. Not to exceed 3 curies per source | |
| B. Cesium-137 | B. Sealed sources (Gamma Industries Model VD(HP) Gulf Nuclear Model CSV) | B. Not to exceed 2 curies per source | |
| C. Cobalt-60 | C. Wire Markers | C. 20 microcuries | |
| D. Iodine-131 | D. Any | D. 250 millicuries | |
| E. Iridium-192 | E. Any | E. 250 millicuries | |

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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Amendment No. 07

9. Authorized use:

- A. and B. For use in oil and gas well logging.
- C. For use as perforating markers.
- D. and E. For use in tracer studies of oil and gas wells.

CONDITIONS

- 10. Licensed material may be used at Highway 2, West of Havre, Montana; Highway 2, East of Cut Bank, Montana; and 1175-A Maggie Lane, Billings, Montana, 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.
- 11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
- 12. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals designated by Prairie Investors Radiation Protection Officer, Martin O'Neil.
- 13. Sealed sources containing licensed material shall not be opened.
- 14. A. (1) Each sealed source containing licensed material, other than hydrogen-3, with a half-life greater than 30 days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed 6 months. In the absence of a certificate from a transferor indicating that a test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.

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14. (continued)

- (2) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within 6 months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the U. S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Dr., Suite 1000, Arlington, Texas 76011, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
15. 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.

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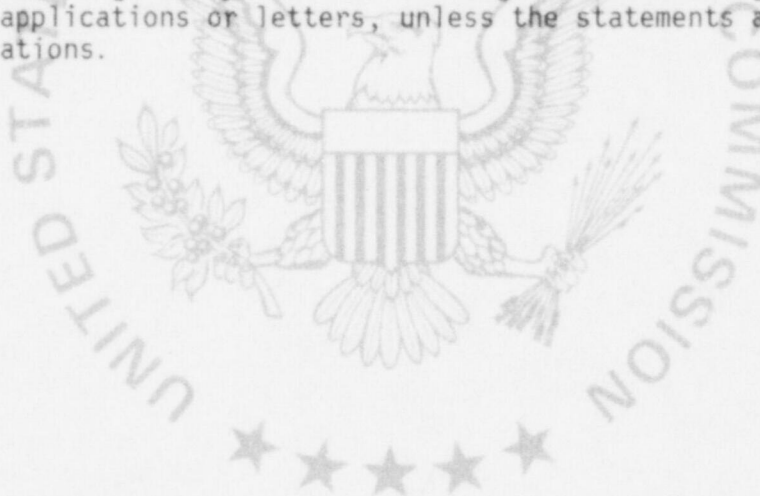
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16. The licensee shall conduct a physical inventory every 6 months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for 2 years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of sealed sources and the date of the inventory.
17. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
18. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated March 15, 1982, and letters dated April 9, 1984, and April 26, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

AUG 30 1985

By

Original Signed By
Jack E. Whitten

Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011

Official Record Copy

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