

MATERIALS LICENSE

Amendment No. 04

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.

"OFFICIAL RECORD COPY"

Licensee		In accordance with application dated March 28, 1985	
1. Frank L. Clifford c/o Parker Industrial X-Ray Corporation		3. License number 06-12117-02 is amended in its entirety to read as follows:	
2. 290 Governor Street East Hartford, Connecticut 06108		4. Expiration date October 31, 1990	
		5. Docket or Reference No. 030-10344	
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. Cobalt 60	A. Sealed Source (Technical Operations Model 571)	A. One source not to exceed 15 millicuries	
B. Cesium 137	B. Sealed Source (Autochem Corp. Model 2000, Module CS2-10)	B. One source not to exceed 100 millicuries	
C. Cesium 137	C. Sealed Source (Technical Operations Model 77302)	C. One source not to exceed 165 millicuries	
D. Iridium 192	D. Sealed Source (Gamma Industries, Technical Operations, Source Production Equipment or Gulf Nuclear Corp.)	D. Not to exceed 200 curies per source	
E. Cobalt 60	E. Sealed Source (Gamma Industries, Technical Operations, Source Production Equipment or Gulf Nuclear Corp.)	E. Not to exceed 200 curies per source	
F. Uranium (depleted in uranium 235)	F. Metal Shielding	F. As necessary for use authorized in subitem 9.F	

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

06-12117-02

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030-10344

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(continued)

9. Authorized use

- A. For use in Technical Operations Model 571 calibrator for calibration of instruments.
- B. For use in EON Corporation Model 64-764 calibrator for calibration of instruments.
- C. For use in Technical Operations Model 773 calibration unit for calibration of instruments.
- D. and E. For use in Gamma Industries, Technical Operations, Source Production Equipment and Gulf Nuclear Corporation exposure devices and source changers for repair, inspection, servicing, and source changing of radiographic equipment.
- F. For use as shielding for sealed sources.

CONDITIONS

- 10. Licensed material may be used at the licensee's facilities at 290 Governor Street, East Hartford, Connecticut 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 of, Frank L. Clifford.
- 13. A. (1) Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
(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 six 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.

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(continued)

- 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 I, 631 Park Avenue, King of Prussia, Pennsylvania 19406, 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.
14. Sealed sources containing licensed material shall not be opened.
15. 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 of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
16. 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 June 1, 1979, letter dated February 8, 1980, application dated March 28, 1985 and letter dated July 21, 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

Original Signed By:

John D. Kinneman

By

Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406

Date

OCT 04 1985