

Amendment No. 17

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); and to import such byproduct and source material. 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.

<p>Licensee</p> <p>1. Fife Corporation</p> <p>2. P. O. Box 26508 Oklahoma City, Oklahoma 73126</p>	<p>In accordance with letter dated March 15, 1985</p> <p>3. License number 35-15511-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date February 28, 1990</p> <p>5. Docket or Reference No. 030-09250</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Krypton-85</p> <p>B. Krypton-85</p> <p>C. Krypton-85</p> <p>D. Strontium-90</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources (Amersham Model KAC 4 or KAC/X 746)</p> <p>B. Sealed sources (New England Nuclear Model NER-585)</p> <p>C. Sealed sources (New England Nuclear Model NER-586)</p> <p>D. Sealed sources (Amersham Model SIF.01 formerly SIF/1177)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 100 millicuries per source</p> <p>B. Not to exceed 1 curie per source</p> <p>C. Not to exceed 600 millicuries per source</p> <p>D. Not to exceed 50 millicuries per source</p>

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E. Strontium-90

E. Sealed sources
(Amersham Model
SIC/W33 or SIAI)E. Not to exceed
10 millicuries
per source

F. Promethium-147

F. Sealed sources
(Amersham Model
PHC/Q880-modified
PHC.16)F. Not to exceed
200 millicuries
per source

G. Iron-55

G. Sealed sources
(Amersham Model
IEC.D2)G. Not to exceed
350 millicuries
per source

H. Americium-241

H. Sealed sources
(Amersham Model
AMC.66)H. Not to exceed
100 millicuries
per source

I. Americium-241

I. Sealed sources
(Amersham Model
AMC.18)I. Not to exceed
500 millicuries
per source

J. Strontium-90

J. Sealed sources
(Amersham Model
SIF/VB05)J. Not to exceed
50 millicuries
per source

K. Krypton-85

K. Sealed sources
(New England
Nuclear Model
NER-585)K. Not to exceed
1 curie per source

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L. Strontium-90	L. Sealed sources (New England Nuclear Model NER-592)	L. Not to exceed 100 millicuries per source
M. Strontium-90	M. Sealed sources (Amersham Model SIF/1174 or SIF/33)	M. Not to exceed 10 millicuries per source
N. Strontium-90	N. Sealed sources (Amersham Model SIF/1175)	N. Not to exceed 20 millicuries per source
O. Strontium-90	O. Sealed sources (Amersham Model SIF/1176)	O. Not to exceed 50 millicuries per source
P. Strontium-90	P. Sealed sources (Amersham Model SIF.D1 formerly SIF/1177)	P. Not to exceed 100 millicuries per source
Q. Americium-241	Q. Sealed sources (Amersham Model AMC.64)	Q. Not to exceed 10 millicuries per source
R. Americium-241	R. Sealed sources (Amersham Model AMC.65)	R. Not to exceed 30 millicuries per source

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S. Americium-241	S. Sealed sources (Amersham Model AMC.16)	S. Not to exceed 125 millicuries per source
T. Americium-241	T. Sealed sources (Amersham Model AMC.17)	T. Not to exceed 650 millicuries per source
U. Iron-55	U. Sealed sources (Amersham Model IEC 1336)	U. Not to exceed 50 millicuries per source
V. Iron-55	V. Sealed sources (Amersham Model IEC 1337)	V. Not to exceed 100 millicuries per source
W. Iron-55	W. Sealed sources (New England Nuclear Model NER-461)	W. Not to exceed 100 millicuries per source
X. Curium-244	X. Sealed sources (Amersham Model CLCL)	X. Not to exceed 200 millicuries per source
Y. Promethium-147	Y. Sealed sources (Amersham Model PHX.83515)	Y. Not to exceed 5 curies per source

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9. Authorized use

A. through H. For research and development; storage; use; and/or possession incident to the performance of the activities specified below involving Fife Models SHR-1, SHR-1A, SHR-5, SHR-6, SHR-7, SHR-9, or SHR-10 source holders.

- (1) Installation and/or removal of sealed sources.
- (2) Distribution to persons authorized to receive the licensed material pursuant to terms and conditions of specific licenses issued by the U. S. Nuclear Regulatory Commission or any Agreement State.
- (3) Installation, removal, relocation, repair, servicing, and the operational testing of Fife devices.
- (4) Leak testing of sealed sources.
- (5) Radiation surveys of devices and facilities.
- (6) Training of personnel in the operation of Fife devices.

A. through Y. For use in research, development, and testing of gauging devices.

CONDITIONS

10. Licensed material shall be used only at 222 West Memorial Road, Oklahoma City, Oklahoma, 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 Fife Corporation's Radiation Safety Committee.

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13. 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.
- (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. The licensee is authorized to collect and analyze leak test samples in accordance with the procedures described in the licensee's application dated May 1, 1978.

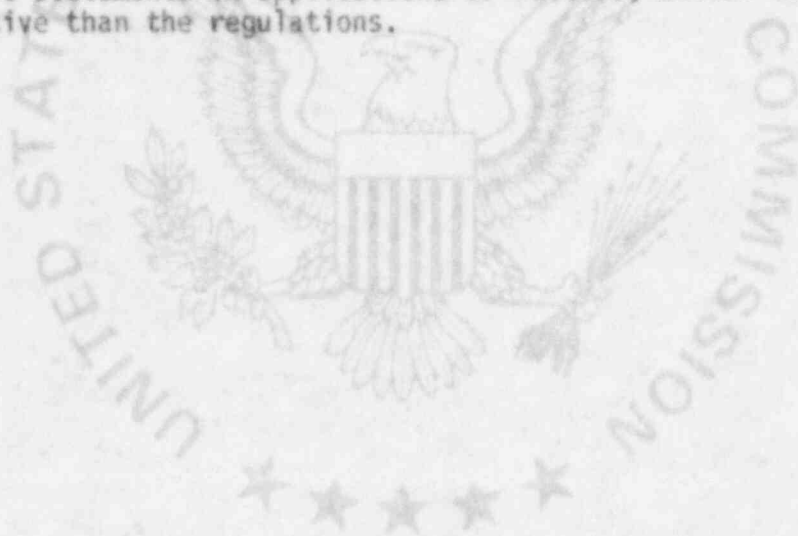
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14. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
15. The Radiation Safety Officer for the activities authorized under this license is Dawn E. Holt.
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 May 1, 1978; and letters dated September 29, 1978, February 27, 1980, July 21, 1980, March 19, 1981, August 11, 1981, October 12, 1981, December 9, 1981, June 10, 1982, September 21, 1983, January 25, 1984, February 17, 1984, June 6, 1984, November 29, 1984, January 22, 1985, and March 15, 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

C. L. Cain

By

C L Cain

Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011

Date MAY 13 1985

Official Record Copy

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76011

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration

R. J. Everett, Chief
Material Radiation Protection Section, TPB,
DV&TP, RIV



LICENSEE FEE TRANSMITTAL

A. REGION IV

1. APPLICATION ATTACHED

Applicant/Licensee:

Gife Corp.

Application Dated:

March 15, 1985

Control No.:

460572

License No.:

35-15511-01 (030-09250)

2. FEE ATTACHED

Amount:

\$120-

Check No.:

47474

3. COMMENTS

5/31/84 3B
3N
3P

Signed

Laura Hurley

Date

March 22, 1985

B. LICENSEE FEE MANAGEMENT BRANCH

1. Fee Category and Amount:

3B \$120

2. Correct Fee Paid. Application may be processed for:

Amendment

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Renewal

License

Signed

Frances Brown

Date

3/28/85