

CORRECTED COPY

MATERIALS LICENSE

Amendment No. 11

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.

<p>Licensee</p> <ol style="list-style-type: none"> James River Corporation KVP Division 100 Island Avenue Parchment, MI 49004 	<p>In accordance with undated application received November 1, 1984</p> <ol style="list-style-type: none"> License number 21-06367-02 is amended in its entirety to read as follows: Expiration date April 30, 1990 Docket or Reference No. 030-04850
<ol style="list-style-type: none"> Byproduct, source, and/or special nuclear material <ol style="list-style-type: none"> Nickel-63 Nickel-63 Nickel-63 Hydrogen-3 Iron-55 Americium-241 	<ol style="list-style-type: none"> Chemical and/or physical form <ol style="list-style-type: none"> Foil source (Varian Detector 02-000965-01) Foil source(s) (New England Nuclear Source Model NER-004 in Shimadzu Scientific Instrument Mini-2 detector cell) Foil source (Nuclear Chicago Detector Cell Model 7220) Foil source (Detector Cell Aerograph Model 02-1681) Sealed sources (Texas Nuclear Drawing Number 696-696782) Foil sources (Amersham/Searle Model Number AMM.4) Maximum amount that licensee may possess at any one time under this license <ol style="list-style-type: none"> No single source to exceed 8 millicuries each No single source to exceed 10 millicuries No single source to exceed 10 millicuries No single source to exceed 1,000 millicuries No single source to exceed 20 millicuries No single source to exceed 0.5 microcuries

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MATERIALS LICENSE.
SUPPLEMENTARY SHEET

License number

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Docket or Reference number

030-04850

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9. Authorized Use

- A. To be used in a Varian Model 2400 gas chromatograph(s) for sample analysis.
- B. To be used in a Shimadzu Scientific Instrument Model Mini-2 gas chromatograph for sample analysis.
- C. and D. For storage only.
- E. and F. To be used in Texas Nuclear Model 9200 series x-ray fluorescence analyzers chemical analysis.

CONDITIONS

- 10. Licensed material in items 6.A. through 6.D. shall be used only at 530 South Riverview, Parchment, Michigan. Licensed material in items 6.E. and 6.F. shall be used only at 100 Island Avenue, Parchment, Michigan.
- 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, Elizabeth A. Howard or David Bishop.
- 13. The Radiation Protection Officer for the activities authorized by this license is Elizabeth A. Howard.
- 14. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), Title 10, Code of Federal Regulations, Part 20, the licensee is hereby authorized to label detector cells and cell baths, containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.
- 15. Detector cells containing licensed material shall not be opened or the foil sources removed from the detector cell by the licensee.
- 16. Maintenance, repair, cleaning, replacement and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.
- 17. Except as otherwise specified in this license, the licensee shall have available and follow the instructions contained in the manufacturer's instruction manual for the chromatography device.

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18. The licensee shall conduct a physical inventory every six (6) months to account for all sealed and foil sources received and possessed under the license. The records of the inventories shall be maintained for two (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 and foil sources and the date of the inventory.
19. Disposal of sealed sources and foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.
20.
 - A. Each chromatograph detector containing Nickel-63 and sealed sources 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.
 - 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 five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, describing the equipment involved, the test results, and the corrective action taken.
 - D. The licensee is authorized to collect leak test samples using an NRC or Agreement State approved leak test kit for analysis by Detector Service Center. Alternatively, leak test samples may be collected and/or analyzed by other persons specifically authorized by the Commission or an Agreement State to perform such services.

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21. 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 undated application received November 1, 1984; and letters dated February 25, 1985 and March 22, 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 June 26, 1985

Original Signed
By William P. Reichhold
Materials Licensing Section, Region III

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