

## MATERIALS LICENSE

Amendment No. 67  
CORRECTED COPY

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, 36, 39, 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 November 21, 1994	
1. Mead Johnson and Co. (B414)		3. License Number 13-00772-02 is renewed in its entirety to read as follows:	
2. 2400 W. Lloyd Expressway Evansville, IN 47721		4. Expiration Date May 31, 2007	
		5. Docket or Reference No. 030-04328	
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. Iodine-125	A. Any	A. 30 millicuries	
B. Nickel-63	B. Foil sources (Hewlett Packard Detector Cell Model Nos. 18803-60520 or 18713A)	B. No single cell to exceed 15 millicuries. Total not to exceed 150 millicuries.	
C. Americium-241	C. Sealed sources registered pursuant to 10 CFR 32.210 and incorporated in a compatible gauging device as specified in Item 9.C. of this license	C. No single source to exceed 100 millicuries. Total not to exceed 1 curie.	
D. Americium-241	D. Sealed sources registered pursuant to 10 CFR 32.210 and incorporated in a compatible gauging device as specified in Item 9.D. of this license	D. No single source to exceed 200 millicuries. Total not to exceed 1 curie.	

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## 9. Authorized Use:

- A. To be used in prepackaged in vitro kits for laboratory testing.
- B. To be used in gas chromatograph for sample analysis.



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- C. To be used in Fitec gauging devices which have been registered pursuant to 10 CFR 32.210 and distributed in accordance with an NRC or Agreement State specific license to persons specifically licensed by the NRC to receive, possess, and use the devices.
- D. To be used in Peco Controls gauging devices which have been registered pursuant to 10 CFR 32.210 and distributed in accordance with an NRC or Agreement State specific license to persons specifically licensed by the NRC to receive, possess, and use the devices.

CONDITIONS

10. A. Licensed material listed in Subitems 6.A. and B. shall be used only at the licensee's facilities located at Highway 62 East, Mt. Vernon, Indiana.
- B. Licensed material listed in Subitems 6.B., C. and D. shall be used only at the licensee's facilities located at 2400 W. Lloyd Expressway, Evansville, Indiana.
11. A. Licensed material in Subitem 6.A. shall be used by, or under the supervision of, A. Buedel, D. W. Cummings, M. D. Helfrich, or L. Halfield.
- B. Licensed material in Subitem 6.B. shall be used by, or under the supervision of, Charles Winstead, Karleen Rousey and Paula Belangee.
- C. Licensed material in Subitems 6.C. and D. shall be used by, or under the supervision of, individuals who received the training described in letter dated May 1, 1997.
- D. The Radiation Safety Officer for this license is Raymond J. Collins.
12. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

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- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources need not be leak tested if:
- (i) they contain only hydrogen-3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The leak 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, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.
- G. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to Perform such services.
13. 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.

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14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
16. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources shall be performed by device manufacturer or by persons specifically licensed by the Commission or an Agreement State to perform such services. Installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
17. 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 November 21, 1994; and
  - B. Letters dated May 6, 1996, February 14, 1997 and May 1, 1997.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

5/29/97

By

*Kenn A. Nace*

Nuclear Materials Licensing Branch, Region III

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