

MATERIALS LICENSE

Amendment No. 42

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.

Licensee	
1. Aluminum Company of America Alcoa Technical Center	In accordance with letter dated January 22, 1988, 3. License number 37-07653-02 is amended in its entirety to read as follows:
2. P.O. Box 2970 Alcoa Center, Pennsylvania 15069	4. Expiration date February 28, 1989
	5. Docket or Reference No. 030-06172
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form
A. Nickel 63	A. Foil contained in Hewlett-Packard Model 18713-60520 or Perkin Elmer Model 330-0119 detector cells
B. Hydrogen 3	B. Foil contained in AID Model 510-600 detector cells
C. Krypton 85	C. Sealed source (FIEE Model KAC/4)
D. Cesium 137	D. Sealed source (Texas Nuclear Model 57157C)
	8. Maximum amount that licensee may possess at any one time under this license
	A. Not to exceed 15 millicuries per foil
	B. Not to exceed 200 millicuries per foil
	C. Not to exceed 100 millicuries per source
	D. Not to exceed 1 curie per source
9. Authorized use	
A. and B. For use in gas chromatographs for sample analysis.	
C. For use in FIFE Series 8500, Type NS601 source holders to measure thickness of materials.	
D. For use in Texas Nuclear Series SGD, Model 5203 source holders to measure density of material in pipeline.	

CONDITIONS

10. Licensed material shall be used only at Alcoa Technical Center, Alcoa Center, Pennsylvania and Alcoa Research Laboratory, New Kensington, Pennsylvania.
11. A. Licensed material shall be used by, or under the supervision of, D. Ray Scott or Haig G. Sakoian.
- B. The Radiation Safety Officer for this license is D. Ray Scott.

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MATERIALS LICENSE
SUPPLEMENTARY SHEETLicense number
37-07653-02Docket or Reference number
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Amendment No. 42

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CONDITIONS

13. A(1) The source(s) or detector cell(s) specified in Item(s) 7.A., 7.C. shall be tested for leakage and/or contamination at intervals not to exceed 6 months and the source(s) or detector cells specified in Item(s) 7.D. shall be tested for leakage and/or contamination at intervals not to exceed 3 years. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source or detector cell is exempt from such leak tests when the source or detector cell contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- B. Any source or detector cell in storage and not being used need not be tested. When the source or detector cell is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The 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, the source or detector cell shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety and Safeguards Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection. ★★★★★
- D. 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.
14. Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by D. Ray Scott or Haig G. Sakoian in accordance with procedures outlined in letter dated September 12, 1983, or by persons specifically licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of devices and 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.
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. Records of inventories shall be maintained for 2 years from the date of each inventory.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

37-07653-02

Docket or Reference number

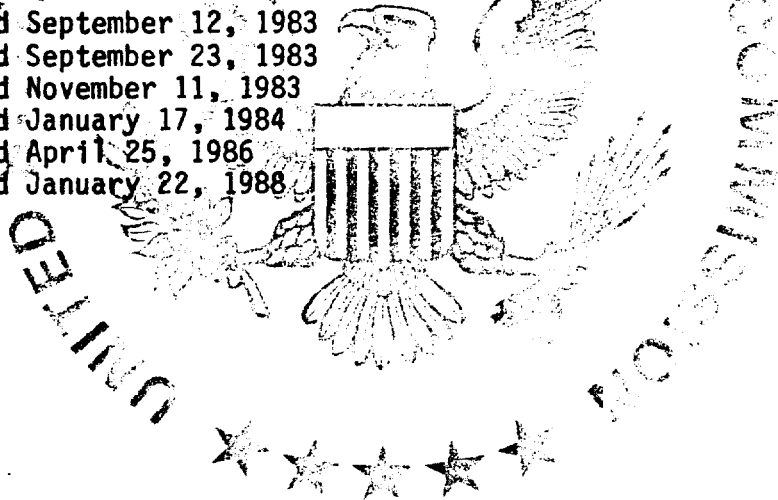
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CONDITIONS

16. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
17. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), of 10 CFR 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.
18. 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. Letter dated September 12, 1983
 - B. Letter dated September 23, 1983
 - C. Letter dated November 11, 1983
 - D. Letter dated January 17, 1984
 - E. Letter dated April 25, 1986
 - F. Letter dated January 22, 1988



For the U.S. Nuclear Regulatory Commission

Original Signed By:

Jack Davin

Date

17 MAR 1988

By

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