

U. S. NUCLEAR REGULATORY COMMISSION
MATERIALS LICENSE
Supplementary Sheet

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License Number 37-07653-02

Docket or

Reference No. _____

Amendment No. 34

Aluminum Company of America
Alcoa Technical Center
P. O. Box 2970
Alcoa Center, Pennsylvania 15069

In accordance with application dated November 4, 1977, License Number 37-07653-02 is amended as follows:

To add:

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
J. Nickel 63	J. Plated source in Hewlett-Packard Model 18713-60520 detector cell	J. Two sources not to exceed 15 millicuries each

9. Authorized use

J. For use in Hewlett-Packard gas chromatograph for sample analysis.

Condition 14. is amended to read:

14. 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 applications dated March 28, 1966, April 28, 1971, and March 13, 1973; and letters dated May 8, 1973, September 24, 1976, February 1, 1977, and November 4, 1977.

Conditions 16., 17., and 18. are added:

16. Detector cells containing licensed material shall not be opened by the licensee.

17. 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.

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18. A. Each chromatograph detector containing Nickel 63 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 detector 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 surfaces of the device in which the foil is 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 foil 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, Office of Inspection and Enforcement, 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.

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For the U. S. Nuclear Regulatory Commission

Original Signed By

EARL G. WRIGHT

by Radioisotopes Licensing Branch

Division of Materials and Fuel Cycle
Facility Licensing
Washington, D. C. 20555