Pursuant to the Atomic Energy 2 3, 34, and 35, and in reliance on s ereby issued authorizing the license sted below; and to use such bypro cense shall be deemed to contain	PRODUCT MA Act of 1954 and Title tatements and repre to receive, acquire duct material for the the conditions speci licable rules, regula	RGY COM Nicensalo 137-0765 Cos TERIAL LICENSE Amendment No. 29 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, sentations heretofore made by the licensee, a license is , own, possess, transfer and import byproduct material purpose(s) and at the place(s) designated below. This fied in Section 183 of the Atomic Energy Act of 1954, as tions, and orders of the Atomic Energy Commission now.
Licensee 1. Aluminum Company of Amer 2. Alcoa Technical Center Alcoa Center, Pennsylvan	Lca	In accordance with letter dated May 8, 1973, 3. License number 37-07653-02 is amended in its entirety to read as follows:
		4. Expiration date April 30, 1978
		5. Reference No.
 Byproduct material (element and mass number) A. Any byproduct material between Atomic Nos. 1 and 83 B. Cobalt 60 C. Strontium 90 D. Krypton 85 E. Cesium 137 F. Promethium 147 G. Plutonium 238 9. Authorized use 	7. Chemical and/o form A. Any B. Sealed sou C. Sealed sou D. Sealed sou E. Sealed sou F. Sealed sou G. Sealed sou	tivity which licensee may possess at any one time A. Not to exceed 2 curies per radionuclide, except: Hydrogen 3 20 curies Strontium 90 50 millicuries B. 5 curies total urces B. 5 curies total urces D. 3 curies total urces E. 5 curies total- urces F. 2 curies total
A. Research and Development B. through G. To be used in sample analys	gauges and analy	O CFR 30. ytical devices for process control and
	cal devices may a	IONS t Alcoa Center, Pennsylvania, except also be used at Alcoa facilities

2 3

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CONDITIONS

Amendment No. 29

(Continued)

- 11. The licensee shall comply with the provisions of Title 10; Chapter 1, Code of Federal Regulations, Part 20, "Standards for Protection Against Radiation."
- 12. Byproduct material shall be used by, or under the supervision of, individuals designated by the licensee's Radiation Committee.
- 13. A(1) Each sealed source containing byproduct material, 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, the sealed source shall not be put into use until tested.
 - (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
 - (3) 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 six 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 Directorate of Licensing, U. S. Atomic Energy Commission, Washington, D. C. 20545, describing the equipment involved, the test results, and the corrective action taken. A copy of such report shall also be sent to Region I, Directorate of Regulatory Operations, USAEC, 970 Broad Street, Newark, New Jersey 07102.

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13. continued

- 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.
- 14. Except as specifically provided otherwise by this license, the licensee shall possess and use byproduct 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 letter dated May 8, 1973.

Date June 4, 1973

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For the U.S. Atomic Energy Commission Original Signed By Robert E. Brinkman by <u>Materials Branch</u>

> Directorate of Licensing Washington, D.C. 20545