

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below, and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee		
1. Name	Ideal Cement Company	3. License number
2. Address	821 17th Street Denver, Colorado 80202	5-682-10 (G67)
		4. Expiration date
		July 31, 1967
		5. Reference No.
		5-682-6
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioac- tivity which licensee may pos- sess at any one time
A. Cobalt 60	A. Sealed source (U.S. Radium Corp. Model LAB-355A)	A. 1 source of 50 millicuries

9. Authorized use

- A. To be used in Ohmart Corporation Model SHRH-A source holder for regulating the depth of hot cement clinker in a clinker cooler.

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above:
11. Byproduct material shall only be used at Ideal Cement Company, Boettcher, Colorado.
12. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation".
13. Byproduct material shall be used by, or under the supervision of, Bobby Joe McMullan, or J. L. Gilliland.
14. Sealed sources containing byproduct material shall not be opened or removed from their respective source holders by the licensee.
15. Maintenance and repair of devices containing byproduct material and installation, replacement, and disposal of sealed sources containing byproduct material used in devices shall be performed only by the Ohmart Corporation, or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

(see page two)

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Supplementary Sheet

License Number 5-682-10
(G67)

as continued:

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 3 years. 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.

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.

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 Director, Division of Materials 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 the Director, Region IV, Division of Compliance, USAEC, P.O. Box 15266, Denver, Colorado, 80215.

Tests for leakage and/or contamination shall be performed by the Ohmart Corporation or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

licensee is hereby authorized to produce radiation levels in an unrestricted area of magnitude associated with a radiation level of 5 milliroentgens per hour at a distance of one foot from the sealed source containing Cobalt 60.

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 the statements, representations, and procedures contained in applications dated August 5, 1959; July 6, 1960; and April 28, 1961; and in letters dated August 15, 1960, July 6, 1960, from J. L. Gilliland and S. A. Gretencort, respectively.

For the U. S. Atomic Energy Commission

JUL 8 1965Original Signed by
by Isotopes Branch Robert E. BrinkmanDivision of Materials Licensing
Washington, D. C. 20545

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