

5-682-2

IDEAL CEMENT COMPANY

DENVER NATIONAL BUILDING

DENVER 2, COLORADO

May 21, 1958

Isotopes Branch
Division of Licensing and Regulation
U. S. Atomic Energy Commission
1717 H. Street, N. W.
Washington 25, D. C.

Gentlemen:

The attached application for additional sealed source units at Baton Rouge, Louisiana, supplements the 30 mc. unit license which we now hold, No. 5-682-2.

Sincerely yours,

IDEAL CEMENT COMPANY



S. A. Gretencort
General Production Manager

SAG/jg

Enclosure

cc: H. L. Cook, Jr. (w/encl)

The Ohmart Corporation

2236 Bogen Street

Cincinnati 14, Ohio

A14

duplicate sent to I.D.

5-682-2

Form AEC-313 (2-57)	ATOMIC ENERGY COMMISSION APPLICATION FOR BYPRODUCT MATERIAL LICENSE	Form approved. Budget Bureau No. 38-R027.3.
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INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U. S. Atomic Energy Commission, P. O. Box E, Oak Ridge, Tenn. Attention: Isotopes Extension, Division of Civilian Application. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.) Ideal Cement Company 821 17th Street Denver 2, Colorado	(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).) Airline Highway Baton Rouge, Louisiana
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2. DEPARTMENT TO USE BYPRODUCT MATERIAL Production Department	3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.) 5-682-2
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4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.) W. S. Fogelberg K. L. Earhart	5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.) -----
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6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.) Cesium-137	(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.) 3 Sealed Sources 300 Mc. 100 Mc. each (nominal) Ohmart Source Design LAB-236C1-4 Cesium Sulphate This supplements 1 30 Mc. source now in use under License No. 5-682-2.
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7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

Ohmart Density Gage to measure density of cement raw mix slurry in a pipeline.
Sealed Source contained in Ohmart Model SHRM-P Source Holder.

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 supplemental sheets if necessary

8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection.....	By Ohmart engineer at time of installation of gage.	2-3 days	(Yes) No	Yes (No)
b. Radioactivity measurement standardization and monitoring techniques and instruments.....	..	..	(Yes) No	Yes (No)
c. Mathematics and calculations basic to the use and measurement of radioactivity..	..	..	(Yes) No	Yes (No)
d. Biological effects of radiation.....	..	..	(Yes) No	Yes (No)

9. EXPERIENCE WITH RADIATION. (Actual use of radioisotopes or equivalent experience.)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Cs-137	300 MC.	Ideal Cement Co.	2-3 days	Ohmart Density Gage

10. RADIATION DETECTION INSTRUMENTS. (Use supplemental sheets if necessary.)

TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm ²)	USE (Monitoring, surveying, measuring)
None required					

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

None required

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)

None required

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes (No) **None required**

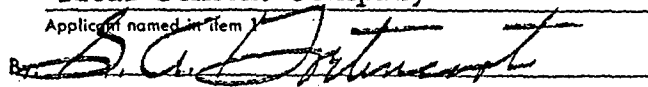
14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source. **See attached sheet.**

15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. **Return to Ohmart if abandoned.**

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

Date May 21, 1958

Ideal Cement Company
 Applicant named in item 1

General Production Manager
 Title of certifying official

WARNING.—18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.