

## MATERIALS LICENSE

Amendment No. 01

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, 36, 39, 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.

302653

## Licensee

1. ESSROC Cement Corporation

2. Highway 31  
Speed, IN 47172In accordance with application dated  
May 15, 19973. License Number 13-26609-01 is amended in  
its entirety to read as follows:

4. Expiration Date October 31, 2004

5. Docket or  
Reference No. 030-336696. Byproduct, Source, and/or  
Special Nuclear Material7. Chemical and/or Physical  
Form8. Maximum Amount that Licensee  
May Possess at Any One Time  
Under This License

A. Iron-55

A. Sealed sources  
(Amersham Model  
IEC.A1)A. Five sources not  
to exceed 20  
millicuries each

B. Cesium-137

B. Sealed Source  
(Ohmart Corp.  
Model A-2102)B. Five sources not to  
exceed 30 millicuries  
each

## 9. Authorized Use:

A. To be used in an Outokumpu Electronics, Inc. Model 820 X-ray fluorescence analyzer.

B. To be used in an Ohmart Corporation Model SH-F1 source holder to measure level of  
process material.CONDITIONS10. Licensed material shall be used only at the licensee's facilities located at  
Highway 31, Speed, Indiana.

11. The Radiation Safety Officer for this license is Kelly L. Farmer.

12. Licensed material shall be used by, or under the supervision of, Kelly L. Farmer.

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

13-26609-01

Docket or Reference Number

030-33669

Amendment No. 01

13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Sealed sources need not be leak tested if:
- (i) they contain only hydrogen-3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak 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, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.

COPY

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

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Amendment No. 01

- F. The licensee is authorized to collect leak test samples for analysis by Metorex, Inc. (Outokumpu Electrodes) or Ohmart Corporation. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
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.
16. 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 U.S. 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. Applications dated September 12, 1994 and May 15, 1997.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUN 13 1997

By Charles F. Gier  
Nuclear Materials Licensing Branch, Region III

COPY



BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

(FOR LFMS USE)  
INFORMATION FROM LTS

Program Code: 03124  
Status Code: 0  
Fee Category: 3P  
Exp. Date: 20041031  
Fee Comments:  
Decon Fin Assur Req'd: N

58

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ESSROC CEMENT INCORPORATED  
Received Date: 970519  
Docket No: 3033669  
Control No.: 302653  
License No.: 13-26609-01  
Action Type: Amendment

2. FEE ATTACHED

Amount: 300  
Check No.: 9452

3. COMMENTS

Signed D. Hensley  
Date 5-20-97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered ☒)

1. Fee Category and Amount: 3P \$300

2. Correct Fee Paid. Application may be processed for:

Amendment ☒  
Renewal ☐  
License ☐

3. OTHER

Signed SC  
Date 5/21/97

JUN 02 1997

Log	May 10 11
Remitter	
Check No.	9452
Amount	\$300
Fee Category	3P
Type of Fee	Amnd
Date Check Rec'd	5/21/97
Date Completed	5/21/97
By:	SC



## APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
531 PARK AVENUE  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 610  
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A. NEW LICENSE  
☒ B. AMENDMENT TO LICENSE NUMBER 13-26609-01  
☐ C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

ESSROC Cement Corporation  
Highway 31  
Speed, IN 47172

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

ESSROC Cement Corporation  
Highway 31  
Speed, IN 47172

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

David J. Jefferson Environmental Manager

TELEPHONE NUMBER

(812) 246-5472

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL.

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time. see page 1 attached

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. see page 2 attached

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE. see page 3 attached

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS. see page 4 attached

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM see page attached

11. WASTE MANAGEMENT.

see page attached

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT ENCLOSED \$ 300.00

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

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.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

David J. Jefferson

Environmental Manager

05/15/97

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL REVENUE  
☐ <\$250K  
☐ \$250K-\$500K  
☐ \$500K-\$750K  
☐ \$750K-\$1M

b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☐ YES

☐ NO

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS
AMOUNT RECEIVED	CHECK NUMBER		

RECEIVED

MAY 15 1997

REGION III

## PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission  
Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

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REGION III



**Essroc**  
Italcementi Group

Highway 31  
Speed, IN 47172

Tel (812) 246 5472  
Fax (812) 246 7800

May 15, 1997

Materials Licensing Section  
US Nuclear Regulatory Commission, Region III  
801 Warrenville Road  
Lisle, IL 60532-4351

Dear Sir/Madam:

Re: **Essroc Cement Corp. - Speed, Indiana**  
Sealed Source License Application - Amendment

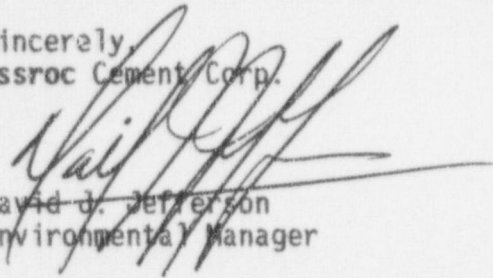
Enclosed please find two (2) copies of the Sealed Source License Application (NRC Form 313), two (2) copies each of Supplemental pages two through ten, and a check in the amount of \$300.00 (Amendment Application Filing Fee) for the **Essroc Cement Corp.** (Essroc), Speed, Indiana Plant.

"Please be advised that **ESSROC Materials Inc.** recently changed its name to **Essroc Cement Corp.** The name change was not associated with any changes to the corporate structure or legal entity. Please up date your records accordingly."

**Essroc** requests that NRC License No.13-26609-01 currently held in the name of **ESSROC Materials Inc.** (Issued October 20, 1994 with an Expiration Date October 31, 1999) be amended to include the possession and use of one (1) 30 mCi, Cesium-137, Ohmart Sealed Source Model A-2102 (no single source to exceed 120 mCi) to be used in Ohmart SH-F1 Source Holder to measure level of process material.

Should you have any question or need additional information, please contact me by phone at (812) 246-7762 or by fax at (812) 246-7736.

Sincerely,  
Essroc Cement Corp.



David J. Jefferson  
Environmental Manager

Enclosures

CC: Kelly Farmer, Quality Control Manager (Radiation Officer)  
Jim Kalbfleisch, Electrical Manager  
Indiana State Board of Health  
Division of Industrial Hygiene and Radiological Health  
Clark County Department of Health  
Fran Streitman, Essroc, Bath, PA

MAY 19 1997



SUPPLEMENTAL PAGE 2 OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

ITEM 5 - MATERIAL TO BE POSSESSED

PART A.

1. Iron-55 Annular X-Ray Source
2. Amersham International plc, Amersham Laboratories, White Lion Road, Buckinghamshire, England HP7 9LL  
  
Product Code: 1EC620  
A1 Item Number: UD9643      1  
Source Model Number: IEC.A1
3. Nominal Activity: 20mCi      740Mbq
4. Outokumpu® X-Met 820 XRE Analyzer

PART B.

1. Cesium-137 Sealed Source
2. The Ohmart Corporation, 4241 Allencorff Drive, Cincinnati, OH 45209
3. Nominal Activity: 30mCi (no single source to exceed 120 mCi)
4. Ohmart Sealed Source Model A-2102 to be used in Ohmart SH-F1 Source Holder to measure level of process material.

SUPPLEMENTAL PAGE 3 OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

ITEM 6 - PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED

PART A.

The Outokumpu® X-Met 820 XRE Analyzer will be used for Sulfur Analysis of cements and other materials.

PART B.

The Ohmart SH-F1 Source Holder w/Ohmart Sealed Source Model A-2102 (Cesium-137) will be used to measure level of process material(s) at a fixed location in the North Clinker Storage Reclaim Hopper.

SUPPLEMENTAL PAGE 4 OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

ITEM 7 - INDIVIDUALS RESPONSIBLE FOR RADIATION SAFETY PROGRAM  
THEIR TRAINING AND EXPERIENCE

Kelly L. Farmer

B.A. Biology/Chemistry-1985      Indiana University, Southeast  
New Albany, Indiana  
Including one (1) year of Physics w/radioactive isotopes

M.A. Management-1990              Webster University, New Albany,  
Indiana

XRF Training Course w/Outokumpu® Electronics-November 1993  
Included - Instrument licensing requirements, radioactive  
isotope safety, and calibration practice.

XRF Training Course w/Philips Electronics-February 1994  
Included - Equipment safety and maintenance, calibration,  
and computer software training.



SUPPLEMENTAL PAGE 5 OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

ITEM 8 - TRAINING PROVIDED TO OTHER USERS

PART A.

1. Personnel using the equipment for sulfur analysis will be given on the job training in the application and use of the Outokumpu® Analyzer and instruction in Radiation Safety relevant to the job.
2. Maintenance and repair of the Outokumpu® Analyzer containing the Sealed Source of Iron-55 and installation, relocation, replacement and disposal of the Sealed Source of Iron-55 used in the device shall be performed only by Metorex® Incorporated (formerly Outokumpu® Electronics), Langhorn, PA (215) 741-4482, or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

PART B.

1. Personnel working around the SH-F1 Holder location will be given on the job training in the application and use of the Ohmart SH-F1 Holder w/Sealed Source Model A-2102 (Cesium-137) and in Radiation Safety relevant to the job.
2. Maintenance and repair of the Ohmart Equipment containing the Sealed Source of Cesium-137 and installation, relocation, replacement and disposal of the Sealed Source of Cesium-137 used in the device shall be performed only by The Ohmart Corporation, Cincinnati, OH (513) 272-0131, or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

SUPPLEMENTAL PAGE 6 OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

ITEM 9 - FACILITIES AND EQUIPMENT

PART A.

1. The Outokumpu® X-Met 820 XRE Analyzer which contains the Sealed Source of Iron-55 is located in the Finish Mill Building Control Room.
2. The area where the Outokumpu® X-Met 820 XRE Analyzer is located will be locked when an authorized person is not present.

PART B.

1. The Ohmart SH-F1 Source Holder w/Sealed Source Model A-2102 (Cesium-137) is located in the North Clinker Storage Reclaim Hopper.
2. The area where the Ohmart SH-F1 Source Holder is located will be clearly marked and out of reach of authorized personnel.

SUPPLEMENTAL PAGE 7A OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

ITEM 10 - RADIATION SAFETY PROGRAM

PART A.

1. Radiation Safety information contained in the Outokumpu® Analyzer Instruction Manual is to be reviewed on a periodic basis with persons working in the general area around the Sealed Source of Iron-55.
2. Personal monitoring devices (film badges) are to be provided for each person using the Outokumpu® X-Met 820 XRE Analyzer on a routine basis. The film badges will be monitored on a monthly basis.
3. Appropriate radiation survey of the Outokumpu® X-Met 820 XRE Analyzer work area will be conducted on a "as needed" basis by Metorex® Incorporated (formerly Outokumpu® Electronics), Langhorn, PA (215) 741-4482, or other persons specifically authorized to conduct such procedures.
4. The Sealed Source of Iron-55 is to be leak tested by Metorex® Incorporated (formerly Outokumpu® Electronics), Langhorn, PA (215) 741-4482, or other persons specifically authorized by the Commission or Agreement State at minimum of every three (3) years using a wipe test kit or other approved method.
5. Maintenance and repair of the Outokumpu® Analyzer containing the Sealed Source of Iron-55 and installation, relocation, replacement and disposal of the Sealed Source of Iron-55 used in the device shall be performed only by Metorex® Incorporated (formerly Outokumpu® Electronics), Langhorn, PA (215) 741-4482, or persons specifically authorized by the Commission or an Agreement State to perform such services.



SUPPLEMENTAL PAGE 7B OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

ITEM 10 - RADIATION SAFETY PROGRAM

PART B.

1. Radiation Safety information contained in the Ohmart Corporation Instruction Manual is to be reviewed on a periodic basis with persons working in the general area around the Ohmart SH-F1 Source Holder w/Sealed Source Model A-2102 (Cesium-137).
2. Personal monitoring devices (film badges) are to be provided for each person entering and working around the Ohmart SH-F1 Source Holder w/Sealed Source Model A-2102 (Cesium-137) on a routine basis. The film badges will be monitored on an as needed basis.
3. Appropriate radiation survey of the Ohmart SH-F1 Source Holder w/Sealed Source Model A-2102 (Cesium-137) will be conducted by The Ohmart Corporation, Cincinnati, OH (513) 272-0131, or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
4. The Sealed Source of Cesium-137 is to be leak tested by The Ohmart Corporation, Cincinnati, OH (513) 272-0131, or by other persons specifically authorized by the Commission or an Agreement State to perform such services at minimum of every three (3) years using a wipe test kit or other approved method or as specified.
5. Maintenance and repair of the Ohmart Equipment containing the Sealed Source of Cesium-137 and installation, relocation, replacement and disposal of the Sealed Source of Cesium-137 used in the device shall be performed only by The Ohmart Corporation, Cincinnati, OH (513) 272-0131, or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

SUPPLEMENTAL PAGE 8 OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

ITEM 11 - WASTE MANAGEMENT PROGRAM

1. Disposal of the Sealed Source of Iron-55 used in the Outokumpu® Analyzer shall be performed by Metorex® Incorporated (formerly Outokumpu® Electronics), Langhorn, PA (215) 741-4482, or by other persons specifically authorized by the Nuclear Regulatory Commission or an Agreement State to perform such services.
2. Disposal of the Sealed Source Model A-2102 of Cesium-137 used in the Ohmart SH-F1 Sealed Source Holder shall be performed by The Ohmart Corporation, Cincinnati, OH (513) 272-0131, or by other persons specifically authorized by the Nuclear Regulatory Commission or an Agreement State to perform such services.

SUPPLEMENTAL PAGE 9 OF 10

ESSROC CEMENT CORP.  
SPEED, INDIANA

EMERGENCY PROCEDURES IN CASE OF ACCIDENT AND/OR DAMAGE

1. In the event of accidents involving ANY of the Sealed Sources IMMEDIATELY:

a. Seal off the area to prevent exposure to radiation from the Source. Minimum distance of twenty (20) feet should be observed for sources of 150 millicuries or less; this will result in a radiation exposure level of less than 2mRem/hour from an unshielded source.

b. Notify:

- Kelly Farmer, Quality Control Manager  
Office: (812) 246-5472 Home: (812) 951-3856
- David DeMille, Plant Manager  
Office: (812) 246-5472 Home: (812) 246-1841
- David Jefferson, Environmental Manager  
Office: (812) 246-5472 Home: (502) 459-5585

Who will in turn, notify the appropriate agencies:

- Radiological Emergency Response, Indiana State Board of Health, Indianapolis, IN  
**(317) 633-0153**
- US Nuclear Regulatory Commission, Region III, Glen Ellyn, IL  
**(708) 790-5500**
- Clark County Department of Health, Jeffersonville, IN  
**(812) 282-7521**

c. For Repair and/or Disposal:

Metorex® Incorporated (formerly Outokumpu® Electronics),  
Langhorn, PA  
**(215) 741-4482**

**OR, IF APPROPRIATE**

The Ohmart Corporation, Cincinnati, OH  
**(215) 741-4482**



SUPPLEMENTAL PAGE 10 OF 10

ESSROC CEMENT CORP  
SPEED, INDIANA

EMERGENCY PROCEDURES IN CASE OF THEFT OR LOSS

1. In the event of THEFT OR LOSS involving ANY of the Seal Sources IMMEDIATELY:

- a. Notify:

- Kelly Farmer, Quality Control Manager  
Office: (812) 246-5472 Home: (812) 951-3856
- David DeMille, Plant Manager  
Office: (812) 246-5472 Home: (812) 949-0206
- David Jefferson, Environmental Manager  
Office: (812) 246-5472 Home: (502) 459-5585

Who will in turn, notify the appropriate agencies:

- Indiana State Police Post No.45, Sellersburg, IN  
**(812) 282-7521**
- Radiological Emergency Response, Indiana State Board of Health, Indianapolis, IN  
**(317) 633-0153**
- US Nuclear Regulatory Commission, Region III, Glen Ellyn, IL  
**(708) 790-5500**
- Clark County Department of Health, Jeffersonville, IN  
**(812) 282-7521**

JUN 13 1997

David J. Jefferson  
Environmental Manager  
ESSROC Cement Corporation  
Highway 31  
Speed, IN 47172

Dear Mr. Jefferson:

Enclosed is Amendment No. 01 to your NRC Material License No. 13-26609-C1 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

This refers to your license amendment request. Enclosed is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
  - a. When the Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
  - b. When the mailing address listed on the license changes. (No fee is required if the location of byproduct material remains the same.)

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3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when a decision is made to terminate all activities involving materials authorized under the license.
4. Request and obtain a license amendment before you:
  - a. Change Radiation Safety Officers:
  - b. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
  - c. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
  - d. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Statement of Policy and Procedure for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC



D. Jefferson

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requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

Original Signed By  
Charles F. Gill  
Nuclear Materials Licensing Branch

License No.: 13-26609-01

Docket No.: 030-33669

Enclosure: Amendment No. 01

DOCUMENT NAME: M:\03033669.CL7

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION III  
801 WARRENVILLE ROAD  
LISLE, ILLINOIS 60532-4351

May 21, 1997

Keily L. Farmer  
Radiation Safety Officer  
Essroc Cement Incorporated  
Highway 31  
Speed, IN 47172

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE  
(Letter & Application Dated 05/15/97)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License                      ☒ Amendment                      ☐ Renewal  
☐ Termination                      ☐ Auth User (Amendment not required)  
☐ Other \_\_\_\_\_

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control No. 302653  
License No. 13-26609-01