



**Essroc San Juan**  
**Italcementi Group**

P O Box 1477  
Vega Alta, PR. 00692-1477

Tel. (787) 721-5878  
Fax. (787) 883-5747

*Br. 2*  
*52-25066-01*  
*030-31302*

March 31, 2015

**VIA FAX / MAIL**

US NRC RI DNMS  
2100 Renaissance Blvd  
King of Prussia, PA 19406

Dear Sir or Madam:

Please find enclosed our renewal application for the Radioactive Material License 52-25066-01.

If your need any further information, please contact me at (787) 721-5878 ext.271, or by email:  
[vanessa.medina@essroc.com](mailto:vanessa.medina@essroc.com).

Sincerely,

Vanessa Medina  
Radiation Safety Officer

RECORDED 041015 15:07:00

*586449*  
RADIATION MATERIALS-002



**APPLICATION FOR MATERIALS  
LICENSE**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53); U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**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. \*AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.**

<p><b>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</b></p> <p>OFFICE OF FEDERAL &amp; STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001</p> <p><b>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:</b></p> <p><b>IF YOU ARE LOCATED IN:</b></p> <p>ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,</p> <p><b>SEND APPLICATIONS TO:</b></p> <p>LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 2100 RENAISSANCE BOULEVARD, SUITE 100 KING OF PRUSSIA, PA 19406-2713</p>	<p><b>IF YOU ARE LOCATED IN:</b></p> <p><b>ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:</b></p> <p>MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352</p> <p><b>ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING,</b></p> <p><b>SEND APPLICATIONS TO:</b></p> <p>NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 1600 E. LAMAR BOULEVARD ARLINGTON, TX 76011-4511</p>
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**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 JURISDICTIONS.**

<p>1. THIS IS AN APPLICATION FOR (Check appropriate item)</p> <p><input type="checkbox"/> A. NEW LICENSE</p> <p><input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER</p> <p><input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>52-25066-01</u></p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</p> <p>Essroc San Juan P.O. Box 1477 Vega Alta, PR 00692-1477</p>				
<p>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>Essroc San Juan Dorado Plant Road Num. 2, Km. 26.7 Bo. Espinosa Dorado, PR 00646</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>Vanessa Medina</p> <table border="1" style="width:100%"> <tr> <td>BUSINESS TELEPHONE NUMBER</td> <td>BUSINESS CELLULAR TELEPHONE NUMBER</td> </tr> <tr> <td>(787) 721-5878</td> <td>(787) 632-0384</td> </tr> </table> <p>BUSINESS EMAIL ADDRESS</p> <p>vanessa.medina@essroc.com</p>	BUSINESS TELEPHONE NUMBER	BUSINESS CELLULAR TELEPHONE NUMBER	(787) 721-5878	(787) 632-0384
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(787) 721-5878	(787) 632-0384				
<p>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.</p>					
<p>5. RADIOACTIVE MATERIAL</p> <p>a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>				
<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</p>	<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.</p>				
<p>10. RADIATION SAFETY PROGRAM.</p>	<p>9. FACILITIES AND EQUIPMENT.</p>				
<p>12. LICENSE FEES (Fees required only for new applications, with few exceptions*) (See 10 CFR 170 and Section 170.31)</p>	<p>11. WASTE MANAGEMENT.</p>				
<p>FEE CATEGORY <input type="text"/> AMOUNT ENCLOSED \$ <input type="text"/></p>					

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, 36, 37, 39, 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.

<p>CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE</p> <p>Carlo Ferrario Plant Director</p>	<p>SIGNATURE</p>	<p>DATE</p> <p>4/1/2015</p>
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**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
APPROVED BY			\$	DATE	

Item 1 Address

a) Mailing address

Essroc San Juan  
 PO Box 1477  
 Vega Alta, PR 00692-1477

b) Main Office address

Essroc San Juan  
 Dorado Plant  
 Road 2, Km 26.7, Bo Espinosa  
 Dorado, PR 00646  
 (787) 721-5878  
 Fax (787) 883-5747

c) Physical location (storage/location of the Nuclear gauge & records)

Essroc San Juan  
 Dorado Plant  
 Road 2, Km 26.7, Bo Espinosa  
 Dorado, PR 00646  
 (787) 721-5878  
 Fax (787) 883-5747

The following is based on NUREG 1556 Vol 4, Appendix B

Item 5 and 6: Materials to be Possessed and Proposed Uses

Radioisotope	Manufacturer	Quantity	Use as Listed on SSD Certificate	Other Uses Not Listed on SSD Certificate
Cs-137	Device manufacturer: Ohmart (NRC lic. # 34-00639-01)  Model(s): SR A-2102, SR A, SR 1A, and SR 1AP	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate.	Yes  Fixed gauging devices for controlling industrial processes.	Not Applicable

H-3	Device manufacturer: EADS Sodern's  Model(s): Sodern NEM 16G	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate.	Yes  Neutron Analyzer for measuring elemental composition of bulk materials.	Not Applicable
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Item No. and Title	Response
<p>7. Individual(s) responsible for the radiation safety program and their training and experience –             Radiation Safety Officer.             Name: Victor Aviles</p>	<p>Before obtaining licensed material, the proposed RSO will have successfully completed one of the training courses described in Criteria in the section entitled “individuals(s) Responsible for Radiation Safety Program and Their Training and Experience-Radiation Safety Officer” in NUREG-1556, Vol 4 dated October 1998.</p> <p>AND</p> <p>Before being named as the RSO, future RSOs will have successfully completed the training described in Criteria in the section entitled “individuals(s) Responsible for Radiation Safety Program and Their Training and Experience-Radiation Safety Officer” in NUREG-1556, Vol 4 dated October 1998. Within 30 days of naming a new RSO, we will submit the new RSO’s name to the NRC to be included in our license.</p>
<p>7.1. Individual(s) responsible for radiation safety program and their training and experience.             Authorized Users</p>	<p>PROPOSED AUTHORIZED USERS: Currently none</p> <p>Before using licensed material, authorized users will have successfully completed the training described in Criteria in the section entitled “Authorized Users” in NUREG-1556, Vol 4 dated October 1998.</p>
<p>8. Training for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mRem) in a</p>	<p>The applicant is not required, and should not, submit its training program, for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mRem) in a year (occupationally exposed workers) and ancillary personnel, to the NRC for review during the licensing</p>

<p>year (occupationally exposed workers) and ancillary personnel.</p>	<p>phase.</p>
<p>9. Facilities and equipment.</p>	<p>We will ensure that the location of each fixed gauge meets the criteria in the section entitled "Facilities and Equipment" in NUREG-1556, Vol 4 dated October 1998.</p>
<p>10. Radiation Safety Program – Audit Program.</p>	<p>The applicant is not required to, and should not, submit its audit program to NRC for review during the licensing phase.</p>
<p>10. Radiation Safety Program – Termination of activities.</p>	<p>The applicant is not required to submit a response to the termination of activities section during the initial application. However, when the license expires when the licensee ceases operation, NRC Form 314 must be submitted.</p>
<p>10. Radiation Safety Program – Survey Instrument.</p>	<p>Surveys pursuant to 10 CFR 20.1501 will be performed by a person specifically authorized by the NRC or an Agreement State to perform these surveys.</p> <p>OR</p> <p>We will use instruments that meet the Criteria in the section entitled "Radiation Safety Program – Instruments," in NUREG-1556, Vol 4 dated October 1998, and one of the following:</p> <p style="padding-left: 40px;">Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibration.</p> <p>OR</p> <p style="padding-left: 40px;">We will implement the model survey instrument calibration program in Appendix 1 to NUREG-1556, Vol 4 dated October 1998.</p>
<p>10. Radiation Safety Program – Material Receipt and Accountability.</p>	<p>Physical inventories will be conducted at intervals not to exceed 6 months, or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license.</p>
<p>10. Radiation Safety Program – Occupational Dosimetry.</p>	<p>We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the criteria in the section entitled "Radiation Safety Program – Occupational Dosimetry," in NUREG-1556, Vol 4 dated October 1998.</p>

<p>10. Radiation Safety Program – Public Dose.</p>	<p>The applicant is not required to submit a response to the public dose section during the licensing phase. However, during NRC inspection, licensees must be able to provide documentation demonstrating, by measurement or calculation, that the TEDE to the individual likely to receive the highest dose from the licensed operation does not exceed the annual limit for members of the public.</p>
<p>10. Radiation Safety Program – Operating and Emergency Procedures.</p> <p><input type="checkbox"/> The gauge meets one or more of the safety conditions</p> <p><input type="checkbox"/> Procedures attached.</p>	<p>If the gauge meets one or more of the safety conditions specified in “Discussion,” in section entitled “Radiation Safety Program – Operating Emergency Procedures,” in NUREG-1556, Vol 4 dated October 1998 state the following:</p> <p style="padding-left: 40px;">Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the criteria in section entitled “Radiation Safety Program – Operating and Emergency Procedures,” in NUREG-1556, Vol 4 dated October 1998.</p> <p>For each gauge requested that does not meet one or more of the safety conditions specified in “Discussion,” in the section entitled” Radiation Safety Program – Operating and Emergency Procedures,” in NUREG-1556, Vol 4 dated October 1998 provide your operating, emergency and lock-out (if applicable) procedures to the NRC for review.</p>
<p>10. Radiation Safety Program – Leak Test.</p>	<p>Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the sealed Sources and Device Registration Certificate. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or Agreement State to provide leak tests kits to other licensees and according to the kit supplier’s instructions.</p> <p style="text-align: center;">OR</p> <p>We will implement the model leak test program published in Appendix M to NUREG-1556, Vol 4 dated October 1998.</p>
<p>10. Radiation Safety Program – Maintenance.</p>	<p style="text-align: center;"><i>Routine Cleaning and Lubrication</i></p> <p>We will implement and maintain procedures for routine maintenance of our fixed gauges according to each manufacturer’s or distributor’s recommendations and</p>

	<p>instructions.</p> <p style="text-align: center;"><i>Non-Routine Maintenance</i></p> <p>The gauge manufacturer, distributor or other person authorized by the NRC or Agreement State will perform non-routine operations such as installation, initial radiation survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of the sealed sources, alignment, or removal of a gauge from service.</p> <p style="text-align: center;"><input type="checkbox"/> The information listed in Appendix N supporting a request to perform non-routine operations in-house is attached</p>
<p>10. Radiation Safety Program – Transportation.</p>	<p>The applicant is not required to submit its response to transportation during the licensing process; this issue will be reviewed during inspection. However, the license should develop, implement, and maintain transportation procedures according to NRC and DOT regulations.</p>
<p>10. Radiation Safety Program – Fixed Gauges Used at Temporary Job Sites.</p> <p><input checked="" type="checkbox"/> Not applicable</p> <p><input type="checkbox"/> Applicable</p>	<p>This is not applicable to our program. We will not use fixed gauges at temporary job sites.</p> <p>OR</p> <p>We will develop, implement, maintain, and distribute procedures that meet the criteria in the section entitled “Radiation Safety Program – Fixed Gauges Used at Temporary Job Sites” in NUREG-1556, Vol 4 dated October 1998.</p>
<p>10. Radiation Safety Program – Minimization of Contamination</p>	<p>The applicant is not required to submit a response to minimization of contamination if the applicant’s responses meet the criteria for the following sections: Radioactive Material – Sealed Sources and Devices, Facilities and Equipment, Radiation Safety Program – Operating and Emergency Procedures, Radiation Safety Program – Leak Testing, and Waste Management – Gauge Transfer and Disposal.</p>
<p>11. Waste Management – Gauge Disposal and Transfer.</p>	<p>The applicant is not required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.</p>

# Certificate of Completion

## Victor Avilés

Essroc San Juan Inc. San Juan, Puerto Rico

has successfully completed


## Radiation Safety Officer Training

conducted by VEGA Americas, Inc.

October 21-25, 2013

Subject matter covered based on NUREG 1556:

- Duties of the RSO
- Basic atomic theory
- Measurement and monitoring techniques
- Exposure calculations
- Biological effects of radiation
- Rules and regulations
- Leak test, shutter check
- Installation, relocation, and removal procedures
- Non-routine maintenance lab
  - Removing/reinstalling a source holder
- Hands on lab work
- Proper disposal practices
- Emergency procedures
- DOT radioactive shipping and receipt

  
Maurits Hartog

Radiation Safety Officer

  
Candy Brock  
Training Manager

Level

Switching

Pressure

Density

Weight

Interface



This is to acknowledge the receipt of your letter (application) dated

04/01/2015, and to inform you that the initial processing which includes an administrative review has been performed.

52-25066-01 (Renewal)  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 586449.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (R1)  
(6-96)

Sincerely,  
Licensing Assistance Team Leader.