

June 16, 2015

Material Licensing Branch  
U. S. Nuclear Regulatory Commission, Region III  
2443 Warren Road, Suite 210  
Lisle, Ill 60532-4352

Re: Application for Amendment to License No. 21-32513-01

Dear Sir or Madam:

The source on the #2 Lime Cooler Ohmart A-2102 level controller source holder has a damaged shutter. The equipment is over 30 years old and the manufacturer states no repair parts are available. Carmeuse Lime, Inc River Rouge Operations will change the Cs-137 source, s/n N/A 15762, and holder Model A-2102, s/n 73799, during a kiln outage starting September 6, 2015. Berthold Technologies will supervise the removal of the obsolete equipment and installation of new level equipment. The new equipment is a Berthold LB414 Point Level detector with a Point Co-60 5550 Mbq source (150 mCi) and LB 7444-CR shielding, p/n 37628.

In light of these changes to operating equipment, please amend License No. 21-32513-01 with the following additions:

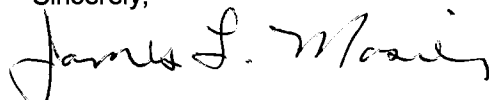
Part 6, line D  
Co-60

Part 7, Line D  
Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in item 9 of this license.

Part 8, Line D  
No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State. Total activity not to exceed 200 mCi.

Part 9, Line D  
For use in Berthold Model 7444 series for Density and Fill Level Measurement.

Sincerely,

  
James L. Mosier, RSO

RECEIVED JUN 23 2015



## River Rouge Operation

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(03-2014)  
10 CFR 30, 32, 33, 34  
35, 36, 37, 39, and 40



## 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 [Infocollections.Resource@nrc.gov](mailto:Infocollections.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.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

OFFICE OF FEDERAL & STATE MATERIALS AND  
ENVIRONMENTAL MANAGEMENT PROGRAMS  
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

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

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,

**SEND APPLICATIONS TO:**

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

**IF YOU ARE LOCATED IN:**

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

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

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,

**SEND APPLICATIONS TO:**

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
1600 E. LAMAR BOULEVARD  
ARLINGTON, TX 76011-4511

**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.**

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

A. NEW LICENSE

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B. AMENDMENT TO LICENSE NUMBER

21-32513-01

☐

C. RENEWAL OF LICENSE NUMBER

**2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)**

Carmeuse Lime, Inc  
25 Marion Avenue  
River Rouge, MI 48218

**3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED**

25 Marion Avenue  
River Rouge, MI 48218

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

James Mosier, RSO

BUSINESS TELEPHONE NUMBER  
(313) 849-9268

BUSINESS CELLULAR TELEPHONE NUMBER  
(313) 303-0178

**BUSINESS EMAIL ADDRESS**

james.mosier@carmeusena.com

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.

**6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.****7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.****8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.****9. FACILITIES AND EQUIPMENT.****10. RADIATION SAFETY PROGRAM.****11. WASTE MANAGEMENT.****12. LICENSE FEES (Fees required only for new applications, with few exceptions\*)  
(See 10 CFR 170 and Section 170.31)**

FEE CATEGORY

AMOUNT  
ENCLOSED \$**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.

**CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE**

JAMES L. MOSIER, RSO  
MAINTENANCE PLANNER

**SIGNATURE**

James L. Mosier

**DATE**

6/16/2015

**FOR NRC USE ONLY**

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



Quote No.:  
Sales Manager:  
Quote Date:  
Valid Until:  
Est. ship date

517646ARev1  
Robin Tregle  
06/11/2015 08:45am  
07/02/2015  
6-8 weeks ARO

99 Midway Lane  
Oak Ridge, TN 37830 USA  
(865) 483-1488  
berthold-us@berthold.com

Bill To	Ship To
Carmeuse Natural Chemicals 25 Marion Avenue P.O. Box 18118 River Rouge, MI, 48218 UA	Carmeuse Natural Chemicals 25 Marion Avenue P.O. Box 18118 River Rouge, MI, 48218 UA

Customer ID	Shipping Term	Payment Terms	Sales Rep
CARMEUSE-01	FOB Oak Ridge	Net 30	Burke

#### LB414 Point Level

Quantity	Part Number	Description	Unit Price	Ext. Price
1.00	56927-C0185	LB414-1A-00-12-01-00000 SMART SERIES LB 414 POINT DETECTOR, POLYMER 50/60, 100-240 VAC, HART POLYMER LID WITH WINDOW	\$4,442.95	\$4,442.95
1.00	56927BA2-CD	ONE FREE OPERATION MANUAL FOR LB 414 SYSTEM ON CD PER ORDER (Hard copies are available for \$85.00 each, part number 56927BA2 please specify qty on P.O.)	\$0.00	\$0.00
1.00	44545-37	Point Source Co-60 5550 MBq ( 150 mCi) - SSC-100 - ISO/C 66646 TITANIUM	\$2,459.05	\$2,459.05
1.00	37628	LB 7444-CR Shielding for point source, inside parts stainless steel	\$4,245.75	\$4,245.75
1.00	31346	Set of fastening clamps SPGU 75/25 SK (2 pc) stainless steel	\$107.10	\$107.10

NOTICE: No removal of refractory brick is required for this application

Subtotal: \$11,254.85

#### Service

Quantity	Part Number	Description	Unit Price	Ext. Price
1.00	SERVICE	THE PRICE IS FOR ONE (1) 8 HOUR DAY ON-SITE. FIXED FEE INCLUDING TRAVEL AND EXPENSES.ADDITIONAL DAYS WILL BE \$1,500 PER DAY	\$4,000.00	\$4,000.00

Subtotal: \$4,000.00

### Source Disposal

Quantity	Part Number	Description	Unit Price	Ext. Price
1.00	QT1914	SOURCE RETURN Cs-137 OHMART MODEL A-2102, S/N 73799, 150mCi	\$3,854.00	\$3,854.00
1.00	PACKING	SHIPPING CRATE NOTE: Customer is responsible for disposal shipping cost.	\$250.00	\$250.00

Subtotal: \$4,104.00

Total: **Grand Total**  
\$19,358.85

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Quote By: Large

JAMES MOSIER  
CARMICHAEL LIME & STONE  
25 MARION AVENUE BOX 18118  
RIVER ROUGE, MI 48218



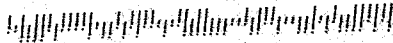
1000



60532

U.S. POSTAGE  
PAID  
RIVER ROUGE, MI  
48218  
JUN 17, 15  
AMOUNT

**\$4.65**  
00085422-18



1st CLASS

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMM REG III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352