

**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.**

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

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
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, MISSISSIPPI, 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  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

**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

*NMSB3*

**ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, 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  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-4005

*LL 31248*  
*030 37473*  
*03120*  
*(37-31248 - 01)*

**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

B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_

C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

Lafarge North America  
Whitehall Plant  
5160 Main Street  
Whitehall, PA 18052

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Lafarge North America  
Whitehall Plant  
5160 Main Street  
Whitehall, PA 18052

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Tom Nikles

TELEPHONE NUMBER

(610) 261-3457

**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 (See 10 CFR 170 and Section 170.31)

FEE CATEGORY	170.31 3P	AMOUNT ENCLOSED	\$ 1,200.00
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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, 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	SIGNATURE	DATE
Tom Nikles - Process Technician	<i>Tom Nikles</i>	05/09/2007

FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	<i>140508</i>

Item #

**5. Radioactive Material**

- a. Element & Mass Number - Californium 252
- b. Chemical and/or Physical Form (Make & Model Number Sealed Source) –  
Amersham Models: CVN.CN2, CVN.CY6, CVN.5, CVN.6, CVN.7,  
CVN.10, CVN.11  
AEA Technology QSA Model: CVN.CY6  
Frontier Technology Corp: Model 100 Series
- c. 27 millicuries (994 MBq) (50 ug) in up to 8 sources

**6. Purpose For Which Licensed Material Will Be Used**

To be used in the SABIA Model XL Series Material Analyzer, a registered device No. NR-1195-D-104-S for measuring the chemical composition of material traveling on a conveyor system. Storage incidental to source exchange.

**7. Individuals Responsible for Radiation Safety Program and Their Training Experience.**

Before obtaining licensed material, the proposed RSO will have successfully completed the training described in Criteria in the section entitled “Individual Responsible for Radiation Safety Program and Their Training Experience – Radiation Safety Officer” in NUREG-1556, Vol. 4, dated October 1998.

Radiation Safety Officer : Tom Nikles

Alternate RSO : John Hish

Authorized Users – Before using licensed materials, 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.

**8. Training for Individuals Working In or Frequenting Restricted Areas.**

N/A

**9. Facilities and Equipment**

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.

**10. Radiation Safety Program Audit Program**

Need not be submitted with Application

**Radiation Safety Program Survey Instruments**

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.

**Radiation Safety Program Material Receipt and Accountability**

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.

**Radiation Safety Program Occupational Dosimetry.**

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 10CFR Part 20 or we will provide dosimetry that meets the Criteria on the section entitled "Radiation Safety program-Occupational Dosimetry" in NEREG-1556, Vol. 4, dated October 1998.

**Radiation Safety Program Public Dose.**

N/A

**Radiation Safety Program Operating and Emergency Procedures.**

Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled "Radiation Safety Program-Operating and Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998.

**Radiation Safety Program Leak Tests.**

Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Certificate. Leak tests will be performed by an organization authorized by the NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit provided by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.

**Radiation Safety Program Maintenance.**ROUTINE MAINTENANCE

We will implement and maintain procedures for routine maintenance of our fixed gauges according to each manufacturer's or distributor's written recommendation and instructions.

NON-ROUTINE MAINTENANCE OPERATIONS

The gauge manufacturer, distributor or other person authorized by the NRC or an 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 sealed sources, alignment, or removal of a gauge from service.

**Radiation Safety Program Fixed Gauges used at Temporary Job Sites.**

This is not applicable to our program. We will not use fixed gauges at temporary job sites.

**Radiation Safety Program Minimization of Contamination.**  
N/A

11. Waste Management - Gauge Disposal & Transfer  
N/A

This is to acknowledge the receipt of your letter/application dated

5/9/2007, and to inform you that the initial processing which includes an administrative review has been performed.

**NEW LICENSE APPLICATION (03037473)**  
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 140508.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

(FOR LFMS USE)  
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

: Program Code: 03120  
: Status Code: 3  
: Fee Category: \_\_\_\_\_  
: Exp. Date: 0  
: Fee Comments: \_\_\_\_\_  
: Decom Fin Assur Reqd: \_

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LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: LAFARGE NORTH AMERICA  
Received Date: 20070514  
Docket No: 3037473  
Control No.: 140508  
License No.: 37-31248-01  
Action Type: New Licensee

2. FEE ATTACHED

Amount: \$1,200.00  
Check No.: CREDIT CARD AMOUNT  
FEBRUARY 625

3. COMMENTS

Signed M. A. Perkins  
Date 5/15/2007

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /\_\_\_/)

1. Fee Category and Amount: \_\_\_\_\_

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

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_  
\_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_