



CABRERA SERVICES
RADIOLOGICAL • ENGINEERING • REMEDIATION

May 27, 2011

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RECEIVED
2011 MAY 31 AM 10:14

Licensing Assistance Team
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

03035316

RE: Amendment Request for Cabrera Services, Inc. (Lic. No. 06-30556-01)

Dear Sir or Madam:

Cabrera Services Inc. (CABRERA) is providing this amendment request utilizing NRC Form 313. No fee is associated with this amendment change.

If you should have any questions regarding this notification, please contact either Henry W. Siegrist at CABRERA (860) 569-0095.

Sincerely,

Henry W. Siegrist, P.E., CHP
Radiation Safety Officer

attachment

575261

NMSS/RGN1 MATERIALS-002

NRC FORM 313

(4-2004)

10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2005

Estimated burden per response to comply with this mandatory collection request: 7 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 Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE0B-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.

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.

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

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

03035316

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 06-30556-01

☐

C. RENEWAL OF LICENSE NUMBER

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

Cabrera Services, Inc.
473 Silver Lane
East Hartford, CT 06118-1152

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Henry W. Siegrist P.E., CHP Radiation Safety Officer

TELEPHONE NUMBER

(860) 569-0095

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 N/A

AMOUNT
ENCLOSED

\$ 0.00

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, 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

Henry W. Siegrist, Corporate Health Physicist, RSO

SIGNATURE

Henry W. Siegrist

DATE

05/27/2011

FOR NRC USE ONLY

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

575261

LICENSE AMENDMENT REQUEST (Revision)
CABRERA NRC MATERIAL LICENSE
No. 06-30556-01, Amendment No. 03

Cabrera Services Inc. (CABRERA) requests the following changes to the existing U.S. Nuclear Regulatory Commission Materials License No. 06-30556-01, Amendment No. 03.

The purpose of this amendment request is to permit flexibility for Cabrera to perform D&D activities at a specific jobsite with concentration-based Special Nuclear Material (SNM) limits associated with diffuse SNM in soils and debris. The request is as a replacement to the current mass based limits for SNM at the site.

1. Byproduct, source, and/or special nuclear material

Current Line 8. reads:

"Maximum amount that licensee may possess at any one time under this license"

And Current Line 8.D. reads:

"200 grams uranium-233, or 350 grams uranium-235, or 200 grams plutonium, or any combination of these provided the ratios do not exceed unity"

Requested Change line 8. D. to read:

"200 grams uranium-233, or 350 grams uranium-235, or 200 grams plutonium, or any combination of these provided the ratios do not exceed unity and

Site-Specific SNM limits for the Shallow Land Disposal Area (SLDA) located in Parks Township, Armstrong County, Pennsylvania where the mass quantities basis for special nuclear material are concentration-based with a maximum mass of 75,000 grams uranium-235, and 4 grams plutonium. These values shall not affect the permitted mass of special nuclear material at other sites under Cabrera NRC Material License control"

Reason for change:

Cabrera Services Inc. (CABRERA) is under contract to the U.S Army Corps of Engineers (USACE) Buffalo district to provide D&D services that include in-situ radiological characterization and removal of radiological and non-radiological wastes from burial trenches at the SLDA. The radiological portion of the wastes include soil that contains quantities of special nuclear material (SNM).

At the subject work site all soils and debris containing SNM and other radionuclides of concern that are above the USACE approved Site Work Plan Derived Concentration Guideline Level (DCGLw) will be controlled by the USACE. The values are:

Radionuclide	DCGLw (pCi/g)
Ra-228	1.7
Th-232	1.4
U-234	96
U-235	35
U-238	120
Pu-238	32
Pu-239	33
Pu-240	33
Am-241	28
Pu-241	890

Soils and debris that are at or below these values, applying the sum of ratios (SOR) and contain other non-radiological contaminants that make it unusable for backfill, will be turned over to B&W Technologies for offsite disposal. Cabrera will be managing these wastes for B&W Technologies.

The subject soils and debris contain only diffuse low levels of SNM that is nuclear criticality exempt and not capable of becoming or sustaining criticality regardless of geometry or quantity.

The requested amendment will provide for needed flexibility to ensure work under ultimate USACE control may be accomplished with nuclear criticality safety and remediation efficiency at all times. The requested concentration-based amount of SNM under Cabrera control while onsite and a conservative associated maximum quantity of such diffuse SNM is based on the following:

- Maximum SNM concentration: As shown in above DCGLw table
- Maximum Pu-238 is ten (10) times maximum reported maximum sample value of 3.2 pCi/g
- Maximum Pu-240 is based on reported values of Pu-239/240
- No evidence from available records of NUMEC/ARCO work U-233
- Maximum individual soil pile volume: 250 cubic yards
- Maximum number of piles at any one time: 12 piles
- Maximum total volume of all onsite piles: 3,000 cubic yards
- Maximum density of soil: 2 g/cc
- Closest approach of soil piles to each other: 3 feet
- Closest approach of loaded supersack disposal containers: contact
- NUMEC/ARCO maximum U-235 enrichment: ~ 97%

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

5/27/2011, and to inform you that the initial processing which includes an administrative review has been performed.

☒ AMEND 06-30556-01
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

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** 575261.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.