



CABRERA SERVICES
RADIOLOGICAL • ENVIRONMENTAL • REMEDIATION

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NMSBY

February 18, 2008

Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406
ATTN: Director, Division of Nuclear Materials Safety

RE: Activities at temporary job site utilizing U.S. NRC Radioactive Material
License #06-30556-01 Amendment 01

030353/6

Dear Sir or Madam:

Cabrera Services Inc. (CABRERA) is providing this written notification of its intent to utilize CABRERA Material License #06-30556-01 Amendment 01 at a temporary job site. The attached information is provided as required by license condition 18A.

We trust that this information is sufficient to grant our use of CABRERA material license # 06-30556-01 Amendment 01 at the temporary job site. This license is currently in use at 2 other sites (MD, OH-reciprocity). No activity exceeding license limitations will be exceeded. CABRERA will notify the Regional Administrator, U.S. Nuclear Regulatory Commission, within 30 days of termination of activities at this job site in keeping with license condition 18B.

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

Sincerely,

Henry W. Siegrist, P.E., CHP
Corporate Health Physicist

attachment

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**ATTACHMENT
DEPARTMENT HOMELAND SECURITY
(ENVIRONMENTAL MEASUREMENTS LABORATORY)
NEW YORK CITY, NY
(February 2008)**

Cabrera Services, Inc. (CABRERA) is providing radiological remediation, sample analysis, and final status survey (FSS) at the Department of Homeland Security, Environmental Measurements Laboratory (EML) located at 201 Varick Street, New York City, New York 10014. The work entails sample analyses from selected survey areas, sinks/drains, and associated waste containers from previous laboratory sample analysis storage areas and recent remediation activities at the EML Site. Some minor surficial decontamination may also occur. A gamma spectroscopy system using a non-exempt radioactive source will be utilized to calibrate and QC the analysis equipment used to provide characterization data for the waste disposal site. This information is being transmitted to you as required by condition 18A of the CABRERA Materials License.

BACKGROUND

The Site was used by the EML and is being remediated under the Department of Homeland Security Agency. There are areas potentially contaminated with residual radioactivity from routine laboratory sample preparation, analysis, and storage operations in the survey units being remediated. The radiological contaminants of concern are atomic numbers 2 - 92 and Pu-238. The work evolutions are associated with limited surface decontamination of building interior surfaces and a small amount of piping. In addition, characterization of stored world-wide environmental samples of soil, sediment, water, air sampling media, etc. will be performed to meet disposal site criteria.

RADIOLOGICAL WORK DETAILS

CABRERA has prepared this notification to the NRC with respect to CABRERA'S intent to utilize the CABRERA Materials License, number 06-30556-01 Amendment 01, at the Department of Homeland Security Environmental Measurements Laboratory, New York City, New York temporary job site. As required by condition 18A of the CABRERA Materials License, the following information is provided:

Remediated materials, decontamination wastes, and associated IDW will be collected and containerized during the activities on the Site. These activities are expected to result in the generation of approximately 3 B-25 type containers (96 cubic ft each) of waste.

Environmental samples and spike samples previously produced by the EML will be characterized by onsite gamma spectroscopy and offsite laboratory sampling to develop disposal characterization information. The gamma spectroscopy equipment will be calibrated using a sealed solid source geometry marinelli container maintained by CABRERA at the Site during the work evolution.

Cabrera will not take possession of any radioactive materials derived from the Site.

A calibration source will be utilized during this work evolution. The calibration source to be controlled under CABRERA NRC Materials License (No. 06-30556-01) is an Isotope Products 1-L

marinelli beaker, source number 1263-8-3. The source has an active volume of 1,000 ml and is contained in an epoxy matrix having a density of 1.5 g/cc.

The calibration source is a multinuclide gamma sealed source containing licensed material, Americium-241. Source 1263-8-3 has a total decayed activity (as of 2/25/08) of 1.84 μCi . All other radioactive materials utilized are NRC exempt size sources used for daily instrument QC checks. The isotopes and individual activities present in the marinelli source beaker are:

Source No. 1263-8-3

²⁴¹ Am	0.0901 μCi
¹⁰⁹ Cd	0.9764 μCi
⁵⁷ Co	0.0300 μCi
¹³⁹ Ce	0.0249 μCi
²⁰³ Hg	0.0130 μCi
¹¹³ Sn	0.0781 μCi
⁸⁵ Sr	0.0435 μCi
¹³⁷ Cs	0.1938 μCi
⁸⁸ Y	0.1510 μCi
⁶⁰ Co	0.2367 μCi

The marinelli source container will be shipped to the Site directly to a CABRERA Employee. Source controls and leak tests associated with the marinelli calibration source will be performed upon receipt and follow CABRERA NRC License conditions. In addition, CABRERA Radiation Safety Procedure "Use and Control of Radioactive Check Sources", OP-009, will be utilized to document the source receipt.

The radionuclide contaminants of concern potentially present are radionuclides with atomic numbers 2 through 92 and Pu-238. No fissile materials are expected to be encountered.

CABRERA NRC Materials License (No. 06-30556-01) requirements, including previously submitted procedures, will be adhered to with respect to the duration of this work evolution. Radiological surveys of affected work areas, and decontamination of equipment used for the work effort will be conducted after completion of remediation investigation activities to ensure the absence of radioactive contamination. These values are consistent with NRC Regulatory Guide 1.86.

Work mobilization and remediation and FSS activity is expected to begin on or about February 25. The project marinelli source receipt date is expected to be on or about March 5, 2008. Completion of site work activities is expected to be on or before March 14, 2008.

Key project personnel and supporting information is available from:

Mr. Paul Goldhagen
Physicist, Radiological Control Manager
Environmental Measurements Laboratory
U. S. Department of Homeland Security
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New York, NY 10014-7447
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Paul.Goldhagen@dhs.gov

Mr. Joe Hart
Health Physicist
HQ, JMC
ATTN: Safety/Rad Waste Directorate
AMSJM-SF
1 Rock Island Arsenal
Rock Island, IL 61299-6000
Comm (309)782-1124, DSN 793-1124
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Mr. Gregory Hisel, CHP – CABRERA Project Manager
Cabrera Services, Inc.
473 Silver Lane
East Hartford, CT 06118
Tele (860) 569-0095 ext 43

Mr. Henry Siegrist, P.E., CHP – CABRERA Corporate Health Physicist
Cabrera Services, Inc.
473 Silver Lane
East Hartford, CT 06118
Tele (860) 569-0095 ext 18

Please contact Henry Siegrist (CABRERA) at (860) 569-0095 should you have any questions regarding this CABRERA notification of intent to utilize NRC Materials License, number 06-30556-01 Amendment No. 1.

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

2/18/2008, and to inform you that the initial processing which includes an administrative review has been performed.

☒ **NOTIFICATION 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** 141861.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.