CABRERA SERVICES
RADIOLOGICAL • ENGINEERING • REMEDIATION

March 18, 2011

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Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406
ATTN: Director, Division of Nuclear Material Safety 03035316

RE: Activities at Temporary Job Site Utilizing U.S. NRC Radioactive Material License #06-30556-01 Amendment 03

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 03 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 03 at the temporary job site. This license or reciprocity is currently in use in four other states (NY, CA, HI, and NM). No activity exceeding license limitations will be conducted. 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 Henry W. Siegrist at (860) 569-0095.

Sincerely,
Cabrera Services, Inc.

Henry W. Siegrist

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

Attachment

574712

NMSS/RGN1 MATERIALS-002

1106 N. Charles Street, Suite 300, Baltimore, MD 21201 • Phone: 410.332.8177 • Fax: 410.332.8183
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ATTACHMENT
REMEDIAL INVESTIGATION
G-STREET RADIATION SITE EDGEWOOD AREA
ABERDEEN PROVING GROUND, MD
(March 2011)

Cabrera Services, Inc. (CABRERA) has been tasked to provide Remedial Investigation (RI) support for the G-Street Radiation Site, located within the Edgewood Area (EA) of Aberdeen Proving Ground (APG). The objective of this investigation is to provide a detailed overview of potential radiological contamination at the site.

In 1996 an Emergency Measures Action was conducted at the G-Street Salvage consisting of a surface clearance prior to the installation of a temporary safety soil cover. During the G-Street Salvage Yard remediation, a radiation survey was conducted in 2007 to determine background radiation levels prior to initiating intrusive activities; this background survey revealed an area of approximately 1 acre adjacent to the salvage yard with elevated activity compared to background levels. The source of this radiation was determined to be U.S. Navy deck markers; all found deck markers have been removed. As such, this one acre area has been identified as the G-Street Radiation Site.

This information is being transmitted to you as required by Condition 18A of the CABRERA Materials License.

BACKGROUND

This RI will be accomplished via a radiation survey and soil and groundwater sampling/analysis. The site radiation survey will be conducted by personnel walking the site using hand-held gamma-ray flux detectors. The media sampling will include 10 surface soil samples, 10 subsurface soil samples, four direct push groundwater samples and one monitoring well groundwater sample. The site is located north-northwest of the intersection between Magnolia Road and Hoadley Road in the Edgewood Area. Additional soil samples may be collected if needed, depending on the results of the laboratory analyses.

WORK DETAILS

CABRERA has prepared this notification to the NRC with respect to Cabrera's intent to utilize the CABRERA NRC Materials License, #06-30556-01, at the G-Street site. As required by condition 18A of the CABRERA Materials License, the following information is provided:

On site activities include conducting a gamma walk over survey of the site, routine site radiological controls, surface and subsurface soil sampling and collection of groundwater samples.

It is estimated that a total of 20 soil samples and five groundwater samples will be collected during this investigation. Each soil sample is estimated to have a mass of approximately 500

grams. Each of the groundwater samples is estimated to have a mass of five kilograms. The total amount of soil sample is not expected to exceed 10 kilograms and the total amount of groundwater is not expected to exceed 25 kilograms. The activity is expected to average approximately five to 10 picoCuries per gram (pCi/g) of radium with spikes of up to 100 pCi/g being expected. Collected samples will be packaged by EA Engineering and Science with assistance from CABRERA and shipped to ALS Laboratory Group in Fort Collins, Colorado for analysis. The radiological laboratory will dispose of the samples to persons licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to receive and dispose of these radioactive samples.

Sampling Investigation Derived Wastes (IDW) will be handled in accordance with federal and state regulations. This includes onsite samples, small amounts of contaminated PPE and equipment (gloves, smears, used containers, air filters, etc.). Total IDW is expected to be less than the equivalent of 2 55-gallon drums. CABRERA will not take possession of any radioactive materials or soil derived from the Site.

Daily QC of radiation detection instrumentation will be with NRC exempt sources. These sources will be controlled under the CABRERA NRC Materials License. Sources will be shipped to and controlled by CABRERA personnel. In addition, CABRERA Radiation Safety Procedure "Use and Control of Radioactive Check Sources", OP-009, will be utilized to ensure proper source storage and control.

The radionuclide contaminant of concern potentially present in soil and samples from the site is Radium contained in deck markers. 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 sampling activities to ensure the absence of radioactive contamination. These values are consistent with NRC Regulatory Guide 1.86.

Work within the current scope of remediation activity including mobilization and demobilization is expected to commence on April 4, 2011 with a completion date of April 8, 2011.

Key project personnel and supporting information:

Mr. Chris Boes – CABRERA Project Manager
Cabrera Services, Inc.
1106 North Charles Street
Suite 300
Baltimore, MD 21201
Tel (410) 982-0710
Cell (410) 371-2267

Ms. Allison O'Brien - Project Coordinator
Directorate of Public Works – Environmental Division
U.S. Army Garrison Aberdeen Proving Ground

Magnolia Road
APG, MD 21010
Tele 410-278-5446

Ms. Brooke Campanell - Site Manager
EA Engineering
1319 Woodbridge Station Way

Edgewood, MD 21040
Tele (410) 538-8202 x 1435
Cell (410) 538-8207

Mr. Henry Siegrist, P.E., CHP - CABRERA Corporate Health Physicist and Radiological Safety Officer
Cabrera Services, Inc.
473 Silver Lane
East Hartford, CT 061 18
Tele (860) 569-0095
Cell (860) 416-0196

Please contact Henry Siegrist of CABRERA at (860) 569-0095 should you have any questions regarding this notification of intent to utilize Cabrera NRC Materials License, #06-30556-01.

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

3/18/2011, 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

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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** 574712.
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 (RI)
(6-96)

Sincerely,
Licensing Assistance Team Leader