



Br 4

RECEIVED
REGION I
2010 OCT 29 AM 11:03

October 28, 2010

Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406
ATTN: Director, Division of Nuclear Materials 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 at 3 other sites (CA, NY, MO). 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 CABRERA (860) 569-0095.

Sincerely,

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

attachment

573814

NMSS/RGN1 MATERIALS-002

**ATTACHMENT
SCHOFIELD ARMY BARRACKS
OAHU, HAWAII**

Cabrera Services, Inc. (CABRERA) is providing radiological remediation, sample analysis, and final status survey (FSS) at the Schofield Army Barracks located in Oahu, Hawaii. The work entails soil sample analysis associated with remediation and FSS activities at the Site. A gamma spectroscopy system using a non-exempt radioactive source will be utilized to calibrate sample analysis equipment used to provide the FSS for the Site. This information is being transmitted to you as required by condition 18A of the CABRERA Materials License.

BACKGROUND

The Site was formerly used by the DoD as a shooting range. Depleted Uranium ammunition was frequently utilized at the site. The project work scope includes on-site sample gamma spectroscopic analysis and limited remediation in support of final status surveys.

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 03, at the Schofield Army Barracks, Oahu, Hawaii temporary job site. As required by condition 18A of the CABRERA Materials License, the following information is provided:

Surface soils will be collected and analyzed during remediation and FSS activities on the Site.

Collected soil samples will be collected in 1-liter marinelli containers for radiological analysis. The samples will be analyzed onsite utilizing portable gamma spectroscopy equipment. The gamma spectroscopy equipment will be calibrated using a sealed solid source geometry marinelli container maintained under CABRERA control at the Site during the work evolution.

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 marinelli containers, etc.). Cabrera will not take possession of any radioactive materials derived from the Site.

Two calibration sources will be utilized during this work evolution. The first calibration source to be controlled under CABRERA NRC Materials License (No. 06-30556-01) is an Isotope Products 1-L marinelli beaker, source number 1316-41, manufacture date 9/1/2008. 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 second source is a new source currently being manufactured as a replacement for the 1316-41. It is being made to the same specs as 1316-41.

The calibration sources are multinuclide gamma sealed source containing licensed material, Americium-241. The calibration sources will have a total decayed activity (as of 10/28/10) of 3.996 uCi. No other radioactive materials are requested for use by this notification. The isotopes and individual activities present in the marinelli source beaker are:

1st Source (1316-41)	
²⁴¹ Am	0.0894 uCi
¹⁰⁹ Cd	0.3909 uCi
⁵⁷ Co	0.0063 uCi
¹³⁹ Ce	0.0011 uCi
²⁰³ Hg	0.0000 uCi
¹¹³ Sn	0.0019 uCi
⁸⁵ Sr	0.0001 uCi
¹³⁷ Cs	0.2000 uCi
⁸⁸ Y	0.0029 uCi
⁶⁰ Co	0.1925 uCi
Total	0.8851 uCi

2nd Source (TBD)	
²⁴¹ Am	0.0897 uCi
¹⁰⁹ Cd	1.2710 uCi
⁵⁷ Co	0.0471 uCi
¹³⁹ Ce	0.0592 uCi
²⁰³ Hg	0.1821 uCi
¹¹³ Sn	0.2164 uCi
⁸⁵ Sr	0.3010 uCi
¹³⁷ Cs	0.2102 uCi
⁸⁸ Y	0.4786 uCi
⁶⁰ Co	0.2556 uCi
Total	3.1109 uCi

The marinelli source containers 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 contaminant of concern potentially present in soil and samples from the Site is depleted uranium.

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.

The project marinelli source receipt date is on or about November 10, 2010. Work within this scope of remediation and FSS activity is expected to be completed prior to October 31, 2011.

Key project personnel and supporting information is available from:

Mr. Derrick Albert – Cabrera Field Lead
 1554 Lyman Road (bldg 3004)
 Schofield Barracks, HI 96857-5000
 Office: (808) 655-6749
 Mobile: (847) 334-3556

Mr. Pat Horkman – Sr. HP Technician
 Cabrera Services, Inc.
 473 Silver Lane
 East Hartford, CT 06118
 (860) 324-6599

Mr. Greg Miller – CABRERA Project Manager
Cabrera Services, Inc.
5911 Jeferson Street NE, Suite A
Albuquerque, NM 87109
Tele (505) 344-1121

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. 03.