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August 1, 2011

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

Temporary Location: Former United Nuclear Corporation Naval Products Manufacturing Facility, New Haven CT

Cabrera Services Inc. (CABRERA) is providing this written notification of its intent to utilize CABRERA Material License #06-30556-01 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 03 at the temporary job site. This license or reciprocity is currently in use at 4 other sites (AK, HI, NY, PA). 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 (voice) or (860) 569-0277 (fax).

Sincerely,

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

575745 NMSS/RGN1 MATERIALS-002

ATTACHMENT FORMER UNITED NUCLEAR CORPORATION NAVAL PRODUCTS MANUFACTURING FACILITY NEW HAVEN, CT (August 2011)

Cabrera Services, Inc. (CABRERA) is providing a Final Status Survey Plan (FSSP) for the former United Naval Products located in New Haven Connecticut. The site was decontaminated and decommissioned during 1973 through 1976 when work was transferred to a new facility in Montville, CT.

Additional characterization of the New Haven site in 1996 and 1997 showed small areas of enriched uranium present in the site soil and sediments that exceeded the soil acceptance criteria set forth by the NRC in 1985. Remediation and Final Status Survey (FSS) will be provided at the site. Work performed will be used to implement the NRC approved August 1998 Decontamination and Decommissioning Plan. Radiologically-contaminted debris and soil will be removed from the site and transported to an approved off-site disposal facility.

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

BACKGROUND

Radiologically-contaminated soil and debris will be removed from the site as part of the decontamination and decommissioning process. The materials are contaminated with diffuse special nuclear material (SNM) from previous work at the site when it was operational. The soil and debris removed from the site contains small amounts of dispersed SNM. Any SNM material is diffuse and hence bulk enrichments are low with no high enriched material expected. All bulk materials are expected to be less than 20% enriched in the uranium-235 (U-235) isotope. No other SNM is present. The site is located at 71 Shelton Avenue, New Haven, CT.

WORK DETAILS

Cabrera has prepared this notification to the NRC with respect to Cabrera's intent to utilize the Cabrera NRC Materials License, number 06-30556-01, at the site of the former United Nuclear Corporation Naval Products Manufacturing Facility. As required by condition 18A of the Cabrera Materials License, the following information is provided:

The radionuclide contaminant of concern potentially present in soil and debris originating from the site is enriched U-235 previously used during the manufacture of fuel for the Navy.

Site decontamination and remediation of soil and debris will be performed to ensure that remaining soils are below 30 pCi/g total uranium. An onsite gamma spectroscopy system will be utilized to ensure that removed bulk soil and debris is less than uranium enriched to 20 percent in the U-235 isotope thus ensuring that any SNM encountered and handled is of low strategic significance.

The information from the onsite gamma spectroscopy system will be used to ensure that Cabrera does not handle and possess U-235 SNM in excess of the license limit of 350 grams at this site. The remediated material will be packaged in intermodal containers and routinely sent to a transload facility where the intermodal containers are loaded onto a rail car for transport to the disposal facility. Completion of the shipping manifest portion and removal of the intermodal containers from the site will terminate Cabrera's accumulation of the SNM per Cabrera's license requirements and result in removal of all SNM associated with the subject train-loaded intermodals.

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An NRC licensed quantity 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 (Eckert & Ziegler) Mixed Gamma GF Custom source. The source is a "button" type source and is contained in a solid epoxy matrix. This source will be controlled under the CABRERA NRC Materials License. Sources will be shipped to the Site directly to a CABRERA Employee.

The calibration source is a mixed gamma source containing licensed material, Americium-241. The source has a total activity of approximately of 3.1 uCi. No other licensed radioactive materials are requested for use by this notification. The radionuclides and approximate individual activities present in the mixed gamma source are:

Mixed Gamma Button Source (5/1/2010)

²⁴¹ Am	1.021 μCi
⁶⁰ Co	1.039 μCi
¹³⁷ Cs	1.052 μCi

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 the Site directly to a CABRERA Employee. Source controls will be implemented onsite in accordance with CABRERA NRC License conditions. 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.

Site remediation activities are expected to produce approximately 1300 cubic yards soil and debris. In addition, Investigation Derived Wastes (IDW) will be produced during the work evolution. This includes onsite samples, small amounts of contaminated PPE and equipment (gloves, smears, used containers, air filters, etc.). This IDW will handled in accordance with federal and state regulations. Total IDW is expected to be less than the equivalent of 6 55-gallon drums. Cabrera will not take permanent possession of any radioactive materials derived from the Site in excess of our license limits.

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 August 15, 2011 with a completion of November 30, 2011.

Key project personnel and supporting information:

Mr. Rob Flowers – CABRERA Project Manager Cabrera Services, Inc. 9413 Willow Grove Court Chesterfield, VA 23832 Cell (804) 833-7948

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Mr. John Uruskyj – UNC GE Project Manager UNC GE 319 Great Oaks Blvd Albany, NY 12203 Tele (518) 862-2717 Cell (518) 527-2943

Mr. Henry Siegrist, P.E., CHP – CABRERA RSO Cabrera Services, Inc. 473 Silver Lane East Hartford, CT 06118 Tele (860) 569-0095 Cell (860) 416-0196

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.

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

8/1/2011, and to inform you that the initial processing which includes an administrative review has been performed.

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 575745. 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