



CABRERA SERVICES
RADIOLOGICAL · ENVIRONMENTAL · REMEDIATION

August 16, 2005

P-3

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

RECEIVED
REGION I
2005 AUG 17 AM 10:33

RE: Completion of job activities at temporary job site utilizing U.S. NRC Radioactive
Material License #06-30556-01

03035316

Dear Sir or Madam:

Cabrera Services Inc. (CABRERA) is providing this written notification regarding the completion of job activities at a temporary job site utilizing CABRERA Material License #06-30556-01 Amendment 01. The attached information is provided as required by license condition 17B.

If you should have any questions regarding this notification, please contact either Henry W. Siegrist or David J. Watters at CABRERA (860) 285-1885.

Sincerely,

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

attachment

137060

NMS/NNM MATERIALS CCC

**ATTACHMENT
COMPLETION OF 2005 ACTIVITIES AT
GREAT LAKES NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS
(NRC Mail Control 137060)**

Cabrera Services, Inc. (CABRERA) provided radiological remediation, characterization, sample analysis, and final status surveys at the Great Lakes Naval Training Center (Site) located in Great Lakes, Illinois. The work included soil sample analysis associated with remediation, characterization and final status survey activities for on-site soils. A gamma spectroscopy system with a non-exempt calibration source was used at the site for soils analysis. The following information is being transmitted to you as required by condition 17B of the CABRERA Materials License.

- (1) The radioactive material examined during the remedial investigation consisted of natural thorium associated with monazite-contaminated soils at the Great Lakes Naval Training Center Site. Soils were collected and analyzed on-site as part of remediation and characterization activities.

Contaminated soils exceeding the thorium DCGL were shipped to U.S. Ecology at Grand View, ID and disposed of under the U.S. Army Field Support Command (AFSC) radioactive waste program. All CABRERA site activities for this work evolution were completed by August 10, 2005. Additional contaminated soil remains onsite pending work to be performed at a future date.

- (2) Gamma spectroscopy equipment used to analyze the soils was calibrated on-site with an Isotope Products multinuclide gamma source (1-L marinelli beaker, source number 1088-82-1) containing licensed material, americium-241. The source was removed from the site on August 5, 2005 and returned to an appropriate off site storage location. Delivery of this non-exempt source was confirmed by telephone on August 9, 2005. The control of this source constituted the only use of the Cabrera Material License at the Great Lakes Naval Training Center Site during this work evolution.
- (3) Receipt survey of the licensed multinuclide gamma source showed no leakage or contamination in excess of license requirement item 20F (0.005 microcurie removable activity). The source was maintained in a locked fire-resistant container when not in use and was under CABRERA control or in a locked trailer at all times while on the Great Lakes Naval Training Center Site.
- (4) Small amounts of shop waste (gloves, booties, paper towel, plastic sheeting, etc.) as well as investigative derived waste (IDW) produced during remediation and FSS processes were controlled and disposed of with the contaminated soils sent to U.S. Ecology. Soil samples collected for analysis this year and not sent to an outside laboratory for QA duplicate analysis are currently stored onsite. The Navy controls the site.
- (5) Radiological surveys associated with this remediation and FSS, were conducted by CABRERA after completion of work activities to ensure the absence of thorium contamination on equipment associated with sampling.
- (6) Four (4) exempt quantity check sources and standards used to provide daily QC and efficiency checks of radiological monitoring and measuring equipment were removed from the Great Lakes Naval Training Center Site on August 10, 2005. No CABRERA radioactive sources remain on site.