



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U. S. ARMY ABERDEEN TEST CENTER
400 COLLERAN ROAD
ABERDEEN PROVING GROUND, MARYLAND 21005-5059

MAR 14 2005

Office of the Commander

Mr. James Schmidt
Nuclear Regulatory Commission, Region I
Division of Nuclear Materials Safety
475 Allendale Road
King of Prussia, Pennsylvania 19406

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Dear Mr. Schmidt:

04007354

Reference Nuclear Regulatory Commission License Number: SUB 834, Docket Number: 040-07354.

The following reports are provided for review and approval to release the Bomb Throwing Device (BTD) area at Aberdeen Proving Ground for unrestricted use: Radiological Final Status Survey Report, BTD Site-Soils (Encl 1) and Remediation and Final Status Survey BTD Site-Structures (Encl 2). Currently, Buildings 701 and 701A at the BTD site store Depleted Uranium (DU) and containerized DU radioactive wastes pending shipment. Both buildings will continue to be used for these purposes and are not part of the decommissioning study.

As stated in the Final Status Survey Report, BTD Site-Soils (Encl 1), it was determined that the Derived Concentration Guideline Level (DCGL) for DU is 220 picocuries/gram (pCi/gm) total, and that the potential dose to an average member of a critical group will not exceed 25 millirem in any one year for 1000-year period. The-As-Low-As-Reasonably-Achievable (ALARA) DCGL target goal of 105 pCi/gm DU was established to provide a conservative limit for survey results. Detection sensitivity was 38 pCi/gm, which is well within the survey criteria. The gamma walkover instrument checks used Cesium 137 and an adequate sensitivity was obtained to locate contamination. The release criteria were based on gamma spectroscopy results for the DU thorium 234 daughters. Quality assurance controls for instruments, field blanks and duplicates meet the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) criteria.

As stated in the Final Status Survey Report, BTD, Site-Structures (Encl 2) the DCGL for the structures was determined to be 100 disintegrations/minute per 100 square centimeters (100 dpm/100 cm²) alpha for direct measurement release criteria. The smear DCGL of 10 dpm/100 cm² is used for removable contamination. All structures and concrete pads remaining meet both of these release criteria. A thorium 230 source with an alpha energy close to that of DU alpha energy was used to check instruments. A technetium 99 source was used for beta measurements for quality control purposes only. Quality assurance for instruments, diagrams, field blanks and controls meet the MARSSIM criteria.

REC'D IN LAT

3/18/2005

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NMSS/RGNI MATERIALS-001

A copy of both enclosures has been furnished to Commander, US Army Developmental Test Command, CSTE-DTC-MS-S/Ms. Tanya Oxenberg, 314 Longs Corner Road, Aberdeen Proving Ground, Maryland 21005-5055.

Distribution for the reports is restricted since this will be used for a decision affecting the use of Army real estate. Distribution is only authorized to US government agencies and their contractors.

Point of contact is John C. Beckman, ATC Safety Office, (410) 278-9618.

Sincerely,


Mary K. Brown
Colonel, U.S. Army
Commanding

Enclosures

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

3/14/2005, and to inform you that the initial processing which includes an administrative review has been performed.

Notification SUB-834 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 136775.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

BETWEEN: : (FOR LFMS USE)
 : INFORMATION FROM LTS
 : -----
 :
 License Fee Management Branch, ARM : Program Code: 11221
 and : Status Code: 0
 Regional Licensing Sections : Fee Category: EX 2B 2C
 : Exp. Date: 20080930
 : Fee Comments: SHIELDING AND OTHER
 : Decom Fin Assur Reqd: Y
 : ::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
 Applicant/Licensee: ARMY, DEPARTMENT OF THE
 Received Date: 20050318
 Docket No: 4007354
 Control No.: 136775
 License No.: SUB-834
 Action Type: Notifications

2. FEE ATTACHED
 Amount: /
 Check No.:

3. COMMENTS

Signed Rebecca J. Wood
 Date 4/12/2005

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /__/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:
 Amendment _____
 Renewal _____
 License _____

3. OTHER _____

Signed _____
 Date _____