



DEPARTMENT OF THE ARMY  
US ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY, NEW JERSEY 07806-5000

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Radiation Protection Section  
System Safety Engineering Branch  
Quality Engineering & System Assurance Sciences Div.  
Quality Engineering and System Assurance Directorate

Ms. Betsy Ullrich  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety  
U.S. Nuclear Regulatory Commission – Region I  
475 Allendale Road  
King of Prussia, Pa. 19406

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REGION I

Dear Ms. Ullrich,

The purpose of this correspondence is to request the unrestricted free release of several facilities / grounds at Picatinny Arsenal that previously had been utilized for radiological operations. Those facilities are Building 167 and adjacent nearby grounds, Bunker 3030 and Magazine 3018 (grounds in near proximity to Bldg. 167 had at one time been used as temporary outdoor holding areas for radioactive waste).

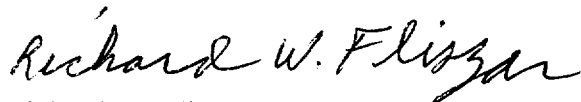
Documentation of surveys performed to support this request is contained in the following attached report: Final Report – 3 Volumes, Picatinny Arsenal Radiological Remediation / Release Surveys and Sampling Project (Oct / Nov 2001 and June 2002), Project No. USA 99-109, Revision 3, New World Technology, January 30, 2006.

The proposed release limits for building surfaces and soils for these facilities were selected to comply with the dose-based release criteria of 15 mrem / year total effective dose equivalent (TEDE). The proposed Derived Concentration Guideline Levels for building surfaces / structures and soils were based on the RESRAD Build Version 3.21 and RESRAD Version 6.21 dose modeling codes, respectively. The documentation of The survey data documentation and resultant applied calculations appear to demonstrate that all parameters satisfy the remediation standards for the unrestricted free release of Building 167 and associated grounds, Bunker 3030 and Magazine 3018.

Also included in that reference document is documentation from characterization surveys, which had been conducted in 2001 by New World Technology (NWT) at locations on post known as the Dog Pound area (former outdoor radioactive waste storage area) and the Gorge (former limited depleted uranium testing area where unwanted explosive ordnance disposal is now carried out in a sector known as the Detonation Pit). Of note, the following document is also included with this submission, which contains additional characterization survey data collected by NWT in 2004 of the detonation pit area within the Gorge, specifically from the hill on the eastern boundary of that Detonation Pit, that is located within a radiation controlled area: Final Report – 1 Volume, Radiological Surveys and Sampling Area 1222 (May 2004), ARDEC, Picatinny Arsenal, New Jersey, Project No. USA 99-109, RFP, MOD 1, Revision 1, New World Technology, January 30, 2006.

Points of contact regarding this correspondence are Mr. Joseph Fabiano, (973) 724-3742, email [jfabiano@pica.army.mil](mailto:jfabiano@pica.army.mil), or the undersigned at (973) 724-3126, email [rfliszar@pica.army.mil](mailto:rfliszar@pica.army.mil).

Sincerely,



Richard W. Fliszar  
RDECOM-ARDEC Radiation Protection Officer

Copies Furnished (w/o encl):

IMNE-PIC-SO (Mr. O.T. Perry – Chairman IRCC)  
AMSRD-AAR-QES-C (Messrs. Tim Greal / Sami Hoxha)  
Commander, HQ U.S. Army Field Support Command, ATTN: AMSFS-SF (Messrs. Frank Whitaker / Michael Styvaert)  
Commander, HQ U.S. Army Materiel Command, ATTN: AMCPE-SF (Mr. John Manfre) / AMCPE-SG-R (Major Robert Prins)  
Commander, HQ U.S. Army Research, Development and Engineering Command, ATTN: AMSRD-MSF (Ms. Joyce Kuykendall)

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

4/28/2006, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Amicus, 29-0047-02 / sub-348  
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 138807/138808  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.