



DEPARTMENT OF THE ARMY
UNITED STATES ARMY RESEARCH LABORATORY
2800 POWDER MILL ROAD
ADELPHI, MARYLAND 20783-1197

REPLY TO
THE ATTENTION OF

AMSRL-CS-IS-SH (385-11p)

27 March 1998

MEMORANDUM FOR Director, U.S. Army Nuclear and Chemical
Agency, ATTN: MONA-ARO, 7150 Heller Loop,
Suite 101, Springfield, VA 22150-3198

SUBJECT: Diamond Ordnance Radiation Facility (DORF) - Detention
Tank Removal

1. This memorandum is being submitted to inform your office of Walter Reed Army Medical Center's (WRAMC) plans to remove the three underground detention tanks located at the DORF facility. WRAMC reportedly wishes to remove the tanks to comply with state underground storage tank regulations.
2. The 5000 gallon tanks were used in the past to store pool water before the water was either returned to the pool, or pumped to the sanitary sewer. The tanks are now virtually empty, with a very small amount of sediment and water inside. In 1980, the water in the tanks was sampled to support unrestricted release of the facility. The water was found to be less than $2\text{E}-8$ uCi/ml of Co-60, and $4\text{E}-6$ uCi/ml of H-3. The Nuclear Regulatory Commission (NRC) license exempt concentrations are $5\text{E}-4$ uCi/ml and $3\text{E}-2$ uCi/ml, respectively.
3. One tank has since been used by WRAMC as a holding tank for short half-life radionuclides. Removal of this tank is therefore subject to NRC regulation. WRAMC and the Army Research Laboratory (ARL) have therefore decided to work together to ensure any tank removal considers potential Health Physics concerns and meets Army and NRC regulatory concerns.
4. ARL and WRAMC have agreed that as a first step, the contents of the tanks need to be re-sampled, to include any sediment that may be in the tanks. Upon obtaining results, further actions will be planned, and your office will be notified. It is anticipated that in any event, some monitoring of the outside of the tanks, as well as the soil beneath the tanks, will be performed upon tank removal.




AMSRL-CS-IS-SH

27 March 1998

SUBJECT: Diamond Ordnance Radiation Facility (DORF) - Detention
Tank Removal

5. The point of contact for this action is Mr. Michael Borisky,
Health Physicist, (301) 394-6310, or DSN 290-6310.

FOR THE DIRECTOR:


O.J. WILLIAMS
COL, QM
Chief of Staff

CF:

WRAMC Health Physics Office, 6825 16th Street, Building 41, Room
38, Washington, DC 20307-5001