



**DEPARTMENT OF THE ARMY**  
FORT WINGATE DEPOT ACTIVITY  
P.O. BOX 268  
FORT WINGATE, NM 87316

May 22, 2015

New Mexico Environmental Department  
Hazardous Waste Bureau  
2905 Rodeo Park Dr. E/Bldg. 1  
Santa Fe, NM 87505

**Attn: John Kieling**

**Re: Report for Onsite Treatment of 2000 LB bomb**

Dear Mr. Kieling:

In April 2015, the Fort Wingate Depot Activity (FWDA) requested an Emergency Permit for the onsite treatment of an AN-M66A2 2,000 lb general purpose bomb under 20.4.1.900 NMAC, incorporating 40 CFR Section 270.61. The New Mexico Environment Department – Hazardous Waste Bureau issued on May 12, 2015 an Emergency Authorization to Destroy the Hazardous Waste. The authorized period for the emergency permit was May 20 through June 2, 2015.

The AN-M66A2 bomb was destroyed by controlled detonation on May 20, 2015 at a location within the FWDA Hazardous Waste Management Unit (HWMU). Prior to completing the treatment activities, a Legal Notice summarizing the treatment activities was posted in the Notices section of the May 16, 2015 printing of the *Gallup Independent* newspaper. In addition to the public notification, notifications were provided to the local chapter houses, Fort Wingate School, Gallup Metro Dispatch, the Airport, and the FAA.

The bomb was transported from FWDA earth covered magazine B-1039 to the HWMU. Prior to transport, the bomb was secured on a pallet, placed on a flatbed truck and secured. The flatbed truck was inspected, placarded, and the bomb was transported to the HWMU.

The demolition charge was assembled at the treatment location. The demolition charge assembly consisted of 10 one pound TNT boosters and 13 jet perforators. Two rows of five boosters were placed along the length of the bomb at the bottom. Two rows of six jet perforators were placed along length of the bomb on each side. One jet perforator was placed in the tail fuze well. Detonation cord was used to provide explosive continuity between the perforators and boosters prior to placement into the excavation.

The bomb was destroyed utilizing the Department of Defense Explosive Safety Board's Buried Explosion Module (BEM) calculations. The BEM calculation indicated the bomb required eight feet of soil cover prior to destruction. An excavation was dug to approximately 18 feet below ground surface and then backfilled with 2 feet of soil to

create a flat, solid bed to place the bomb. The bomb was placed into the bottom of the excavation and the excavation was backfilled with soil to an elevation of eight feet above the top of the bomb.

During disposal operations, no personnel were permitted within the BEM calculated maximum fragmentation distance of 1,319 feet of the disposal location. Four road security guards were placed at access points into the HWMU to prevent any unauthorized personnel from entering the area. Contractor and USACE safety personnel coordinated to verify that all on site personnel were staged outside the 1,319 feet during the demolition operation. Once verified that all personnel were accounted for, firing operations commenced. Firing operations were initiated with a remote firing device and the bomb was destroyed at 10:43 a.m. on May 20, 2015.

After a five minute waiting period, the post demolition location was inspected by the Senior Unexploded Ordnance Supervisor (SUXOS), UXO Quality Control Specialist (UXOQCS), Demolition Team Leader, and the U.S. Army Corps of Engineers (USACE) Ordnance and Explosives Safety Specialist (OESS) to verify that no treatment residuals remained in the excavation. A surface sweep of the demolition site and surrounding area was conducted on 21 May, 2015 and the crater created by the demolition was backfilled on May 22, 2015.

If you have any further questions concerning this report, please call me at (330) 358-7312 or Eric Kirwan, Project Manager, at (817) 366-2437.

Sincerely,

Mark Patterson  
BRAC Environmental Coordinator

Chuck Hendrickson, USA EPA Region 6  
Lisa Lovato (Admin Record) FWDA  
Bill O'Donnell, BRAC  
Sharlene Begay-Platero, NN  
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