



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
US ARMY DEFENSE AMMUNITION CENTER  
1 C TREE ROAD  
MCALESTER, OK 74501-9053

29 OCT 2002

SOSAC-ESL

MEMORANDUM FOR U.S. Army Training and Doctrine Command (ATCS-S), Fort Monroe,  
VA 23651-1034

SUBJECT: Amendment 1 to the Approved Explosives Safety Submission (ESS) for the  
Ordnance and Explosives Removal Action for the Eastern Bypass, Fort McClellan, AL

1. References:

a. Memorandum, Department of Defense Explosives Safety Board (DDESB), DDESB-KO,  
24 Oct 2002, SAB (enclosure 1).

b. Memorandum, Defense Ammunition Center (DAC), SOSAC-ESL, 10 Oct 02, SAB  
(enclosure 2).

2. The DDESB correspondence, reference 1a, provides final approval for subject amendment  
and is provided for your information and use. Please note that the approval memo contains three  
stipulations that are not explicitly stated in the amendment.

a. The mechanical processing area will be located at least 250 feet from the mechanical  
removal area.

b. Personnel will not be allowed outside the armor-protected areas while mechanical removal  
operations are underway.

c. The OE/UXO items used in the UXO shredding demonstration will be stockpiled for no  
more than 3 days in the inspection/demolition area.

3. The POC is Ms. Jean Gallagher, SOSAC-ESL, DSN 956-8876, email address  
jean.gallagher@dac.army.mil.

FOR THE DIRECTOR:

Encl  
As

  
JAMES R. GRAY  
Chief, Ordnance Explosives  
Environmental Division

RCVD NOV04 02 AM 110

SOSAC-ESL

SUBJECT: Amendment 1 to the Approved Explosives Safety Submission (ESS) for the Ordnance and Explosives Removal Action for the Eastern Bypass, Fort McClellan, AL

CF:

Office of the Director of Army Safety (DACS-SF), 2211 S. Clark St., Room 980  
Arlington, VA 22202

U.S. Army Garrison (ATZN-ENV), Fort McClellan, AL 36205-5000

U.S. Army Engineering and Support Center, Huntsville (CEHNC-DE), P.O. Box 1600,  
Huntsville, AL 35807-4301



DEPARTMENT OF DEFENSE EXPLOSIVES SAFETY BOARD  
2461 EISENHOWER AVENUE  
ALEXANDRIA VIRGINIA A 22331-0600



DDESB-KO

24 OCT 2002

MEMORANDUM FOR DIRECTOR, DEFENSE AMMUNITION CENTER  
ATTENTION: SOSAC-ESL

SUBJECT: Amendment 1 to the Approved Explosives Safety Submission (ESS) for the Ordnance and Explosives Removal Action for the Eastern Bypass, Fort McClellan, AL

- References: (a) SOSAC-ESL Memorandum, 10 October 2002, Subject as Above, with Enclosure
- (b) DoD 6055.9-STD, Ammunition and Explosives Safety Standards
- (c) DDESB-KO Memorandum, 27 November 2001, Subject: Explosives Safety Submission (ESS) for Ordnance and Explosives Removal Action at the Eastern Bypass, Fort McClellan, AL

The DDESB Secretariat reviewed the subject ESS forwarded by reference (a) against the requirements of reference (b) and the previous approval at reference (c). Based on our review, we approve the subject amendment 1 to the ESS for the ordnance and explosives (OE) removal action at the Eastern Bypass (EBP), Fort McClellan, AL. The amendment involves the use of mechanical equipment for removal, sifting and shredding of OE and OE scrap at locations within OE Area 2 that have high density of OE. Figure 1-1 of the subject amendment shows the locations to which the amendment applies. In summary:

- A mechanical processing area and a shredder/disposal area will be established in previously cleared areas of the EBP. The soil will undergo sifting and magnetic separation in the mechanical processing area. The separated metal spoils will be inspected and demilitarized in the shredder/disposal area. Once the metallic scrap is certified it may be run through the mechanical ring mill shredder.
- Per subject amendment, the mechanical processing area will be located at least 250 feet from the mechanical removal area (area to be excavated). Other quantity-distances will remain at a minimum of 1,181 feet based on the 37 mm MK II projectile as the most probable munition, unchanged from the ESS approved via reference (c).
- Personnel in the mechanical processing area will be protected from fragments by armoring the earth-moving equipment, equipment operators' stations, and control booths as specified in paragraph 3.3 of the subject amendment. Personnel will not be allowed outside the armor-protected areas while mechanical removal operations are underway.

- Equipment operating procedures must ensure a minimum standoff distance of 13 feet in order to prevent penetration of the armor by fragments or a shape charge jet/slug.
- Inspection of scrap, demolition of OE, and shredder operations will be conducted separately and non-concurrently.
- Other aspects of the ESS approved via reference (c) continue to apply.

The subject amendment also discusses a plan to implement a technology demonstration for direct disposal of OE and unexploded ordnance (UXO) by mechanical shredding using the mechanical ring mill shredder used for scrap processing discussed above. The following apply to this technology demonstration project:

- Potential OE/UXO items and assorted metal debris, not to exceed a 60 mm mortar explosive weight per item, will be processed directly through the shredder without prior inspection or demolition of the item.
- The OE/UXO items will be stockpiled for no more than 3 days in the inspection/demolition area within the shredder/disposal area established via this ESS amendment.
- The estimated maximum net explosive weight (NEW) for the stockpiled OE/UXO items is 18 pounds of hazard division (HD) 1.1 materials. Per Appendix B of the subject amendment, a minimum distance of 100 feet will be maintained between the OE/UXO stockpile and the remote operator's booth. The applicable minimum inhabited building separation distance for this NEW is 860 feet (K328).
- If any OE/UXO items get caught in the shredder or the shredder's collection box, the item will be perforated/blown in place, unless responsible personnel determine the item is incapable of detonating.
- In the event for any reason, the shredder is damaged and cannot be repaired within 24 hours, all remaining unprocessed OE/UXO items will be inspected and disposed of in accordance with the procedures approved via reference (c).
- All processed materials from this test will be manifested and shipped to a hazardous waste approved incinerator for disposal.

The point of contact for this action is Ms. Lydia E. Sanchez, (703) 325-1373, DSN 221-1373, E-mail address [Lydia.Sanchez@hqda.army.mil](mailto:Lydia.Sanchez@hqda.army.mil).

  
WILLIAM E. WRIGHT  
Captain, USN  
Chairman

cc:

DACS-SF

DALO-AMA



DEPARTMENT OF THE ARMY  
US ARMY DEFENSE AMMUNITION CENTER  
1 C TREE ROAD  
MCALESTER OK 74501-9053

REPLY TO  
ATTENTION OF

10 OCT 2002

SOSAC-ESL (385)

MEMORANDUM FOR Department of Defense Explosive Safety Board (DDESB-KO),  
2461 Eisenhower Avenue, Alexandria, VA 22331-0600

SUBJECT: Amendment 1 to the Approved Explosives Safety Submission (ESS) for the  
Ordnance and Explosives Removal Action for the Eastern Bypass, Fort McClellan, AL

1. References:

a. Memorandum, US Army Garrison, Fort McClellan, ATZN-ENV, 7 Oct 02, subject:  
Final Conventional Explosives Safety Submission, Amendment 1, Task Order 010,  
Eastern Bypass OE Removal, Ordnance and Explosive Response at Fort McClellan,  
Alabama, Contract Number DACA87-99-D-0010. (enclosed)

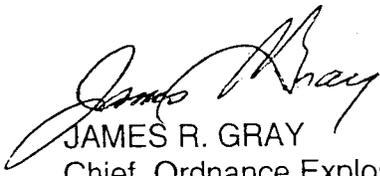
b. Memorandum, Department of Defense Explosives Safety Board, DDESB-KO, 27  
Nov 01, subject: Explosives Safety Submission (ESS) for Ordnance Removal Action at  
the Eastern Bypass, Fort McClellan, AL.

2. We have reviewed the subject amendment in accordance with the criteria of DOD  
6055.9-STD as implemented by AR 385-64, and have granted Army approval. It is  
provided for Department of Defense Explosive Safety Board (DDESB) review with our  
recommendation for approval.

3. The POC is Ms Jean Gallagher, SOSAC-ESL, DSN 956-8876, commercial (918)  
420-8876, email jean.gallagher@dac.army.mil.

FOR THE DIRECTOR:

Encl  
as

  
JAMES R. GRAY  
Chief, Ordnance Explosives  
Environmental Division

CF:

Army Safety Office (DACS-SF), 2211 South Clark Street, Room 980,  
Arlington, VA 22202 (wo/encl)

# Amendment 1