



HEADQUARTERS, UNITED STATES FORCES, KOREA
UNIT #15237
APO AP 96205-0010

REPLY TO
ATTENTION OF

FKJ4-AM-SS

21 APR 2006

MEMORANDUM FOR Director, Defense Ammunition Center (DAC), ATTN: SJMAC-EST, 1C Tree Road, McAlester, OK 74501-9053

Subject: Request for Approval of Magazine Design Drawings from Republic of Korea Army (ROKA)

1. References:

a. Memorandum of Agreement (MOA) for US/ROK Combined Single Ammunition Logistics System-Korea (SALS-K) dated 25 Nov 1974.

b. Memorandum, DDESB-KT, 23 Sep 2003, Subject: Approval of the Republic of Korea (ROK) Ministry of National Defense (MND) Standard Design Drawings of Igloo Type Storage (63 Pyong) dated August 2000.

c. MND Standard Design Drawings of Igloo Type Storage (63 Pyong) dated March 2006 (enclosure 1).

d. MND Standard Design Drawings of Igloo Type Storage (131 Pyong) dated March 2006 (enclosure 2).

e. ROKA Letter, 5 April 2006, Subject: Request for Technical Review of Improved Standard Design Drawings of Igloo Type Storage (enclosure 3).

2. A set of magazine drawings at enclosure 1 is a ROKA-proposed revision of the existing Korean version of U.S. Army earth-covered magazine (ECM) drawing # 33-15-74 previously approved by the DDESB in reference 1b. ROKA has forwarded it for coordination with us in order to use it for storage of U.S.-titled munitions under the SALS-K (reference 1a). It is forwarded for your review and approval as 7-bar ECM. Request your response not later than 30 May 2006. The feature of the revision is that it has added an air conditioning system to the magazine in order to control moisture inside and thus prevent moisture condensations. ROKA has experienced severe moisture condensation problem in the ECMs constructed in accordance with the existing Korean version of U.S. Army ECM drawing 33-15-74. Drawing No. A-101 contains comparisons of designs between the U.S. base drawings and the ROKA versions. The ROKA maintains that changes made in the revision would not affect the magazine structural integrity. 2 hard and CD copies of the ROKA-proposed revision are provided as enclosure 1.

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Subject: Request for Approval of Magazine Design Drawings from Republic of Korea Army (ROKA)

3. A different set of magazine drawings at enclosure 2 is a ROKA draft version of U.S. Navy Standard Box Type Magazine, Type C. Request it be forwarded to the DDESB for approval as 7-bar ECM and for NEW limit of 500,000 lbs. It contains significant variances from Type C magazine: Reduction of 3 doors to 2 doors; an air conditioning system added; and adoption of "Faraday shield" instead of air terminals for lightning protection system. Drawing No. A-101 contains comparisons of designs between the U.S. base drawings and the ROKA draft version. The ROKA transmittal letter at enclosure 3 contains the backgrounds of ROKA having developed these new drawings. 2 hard and CD copies of the ROKA draft version are provided as enclosure 2.
4. We strongly support the ROKA request for coordination to insure proper construction of magazines to be used for storage of U.S.-titled ammunition under SALS-K. We will greatly appreciate your timely review and response in this matter.
5. POC for this office is Mr. Chi, Sang Chol, KGS 12, Storage Specialist, Surveillance and Storage Section, Munitions Branch, G4, Eighth U.S. Army, DSN 723-2750, Fax 723-4361, email ChiS@usfk.korea.army.mil.

3 Encls
as



ALAN D. BRAITHWAITE
COL, GS
Chief, Munitions Division
Assistant Chief of Staff, J4

HEADQUARTERS, REPUBLIC OF KOREA ARMY (ROKA)

TO: Commander, US Forces Korea

5 April 2006

ATTN: Chief, Munitions Division, J4

Subject: Request for Technical Review of Improved Standard Design Drawings of Igloo Type Storage

1. References:

- a. Memorandum of Agreement (MOA) and Protocols thereto for US/ROK Single Ammunition Logistics System-Korea (SALS-K) dated 25 Nov 1974.
- b. Memorandum, DDESB-KT, 23 Sep 2003, Subject: Request for Approval of the Republic of Korea (ROK) Ministry of Defense (MND) Standard Design Drawings of Igloo Type Storage (63 Pyung) dated August 2000.
- c. Memorandum, FKJ4-AM-SS, 23 Apr 2004, Subject: ROKA Request for Construction Design References of Large Earth-Covered Magazines.
- d. MND Standard Design Drawings of Igloo Type Storage (63 Pyung) dated March 2006. (Enclosure 1)
- e. MND Standard Design Drawings of Igloo Type Storage (131 Pyung) dated March 2006. (Enclosure 2)

2. We greatly appreciate the excellent technical assistance you have provided us in support of our efforts to improve the explosives safety in our combined munitions logistic operations.

3. We have implemented the MND Standard Design Drawings of Igloo Type Storage (63 Pyung) previously approved by the DDESB (ref 1b) in the 1st phase of the new magazine construction plan in ROKAAD 3. However, we found severe moisture condensations in many new magazines completed. To solve this problem, we have decided to install an external air conditioning system to control moisture inside. A set of drawings at enclosure 1 incorporates this moisture control design. We believe this addition would not affect the magazine structural integrity. Request the drawings 1 be reviewed and comments provided.

4. We have also completed a ROKA version (131 Pyung) of U.S. Navy Standard Box Type Magazine, Type C using the Type C drawings provided by your organization (ref 1c). We have explored the large magazine to effectively store and handle various sizes and shapes of ammunition. This ROKA version also includes the moisture control design. Request this ROKA version at enclosure 2 be reviewed and comments provided. It is intended for the NEW limit of 500,000 lbs of 1.1 explosives.

5. We are planning to implement the new drawings of 63 and 131 Pyung magazines once coordinated with the U.S, in the 2nd phase of the new construction plan beginning next year in ROKAAD 3. Request your comments be provided not later than 31 May 2006. New magazines per these drawings will be used for US and ROKA ammunition.

//ROKA official seal stamped//
Chief of Staff, ROKA

Encls: 3 hard & CD copies of 2 sets of Standard Design Drawings (63 Pyung & 131 Pyung), both dated March 2006.

Released by COL Kim, Tae Sik, ROKA, Combat Support Division, Office of Chief of Engineers, HQ, ROKA.

Action Officer: Mr. Yoon, Young Chan, ROKA Civilian, Grade 4, Combat Support Division, ROKA Phone 960-0912/0913, ROK commercial (02)- 505-4622, Email yc0614@army.mil