

**MOBILE FACILITY PROGRAM REVIEW
ACTION ITEM**

ACTION ITEM NO.: 1-129

DATE SUBMITTED: 4/25/2010

SUBMITTED BY: CWO4 J. D. GERACE, MALS-16 FWD ASST AVN ORD OFFICER

PROBLEM: MMF GM-02A, Drawing # MFGM020401, Rev. H, ORDNANCE REPAIR MF A is utilized by I-Level work centers for conducting maintenance on aircraft gun systems for both the F-18 (M61 Series 20MM gun) and the AV-8B (GAU-12 25MM gun/and GAK-14 Ammunition Handling System). The current configuration of GM-02 does not provide a means for safely placing either gun series into the MMF in a way that is both safe for personnel, minimizes risk to damaging the gun systems, and minimizes the risk of damaging the MMF van doorway itself upon entry and exit of a gun system from the van.

Both gun systems are bulky to maneuver when mounted to their perspective ground handling equipment. Here's what each system weighs:

M61 Series 20MM gun weight approx 400 lbs.
GAU-12 25MM gun weight 575 lbs.
GAK-14 25MM ammo handling weight approx 275 lbs.

RECOMMENDATION: MMF GM-02A should have modifications to the I-beam and doorway opening to incorporate a traveling I-beam the same length as the existing I-beam (Item #9) that extends outside the MMF from the entryway of GM-02A. This could be accomplished by suspending a secondary I-beam from existing I-beam and attaching the new I-beam on dual top-bottom joined weight-bearing rollers. The existing hoist (Item 54) should then be reinstalled on the lower, door-extendable I-beam for the lifting and movement of all gun series into and out of MMF GM-02A.

Considering that attaching an extendable rail to the existing rail system will considerably lower the hoist position, in order to clear the door opening. It may be a good idea to use an end opening type MF Shell. It has a much larger double door that opens the entire end of the MF.

Also, it may be easier to fabricate a standalone external frame with a rail system that can be broken down and shipped within the MF. It should be a much easier process to have something made with an extending rail system that can move the gear into the MF.

STATUS: Accepted

ACTION AGENCY: MF Engineering