

MOBILE FACILITY PROGRAM REVIEW  
ACTION ITEM

ACTION ITEM NO.: 5-44

DATE SUBMITTED: 04/18/08

SUBMITTED BY: MARFORCOM

**PROBLEM:** MF Grounding. Numerous references are made in AG-360MF-IIN-000 concernign the grounding of individual MFs in a complex. The ground-neutral separation efforts that were undertaken several years ago were supposed to eliminate the need for each MF in a complex to be grounded individually. MFs would still require grounding through the INU.

**RECOMMENDATION:** Review AG-360MF-IIN-000, paticularly Chaps 2, 3, 6 and 8 for references concerning individual MF grounding and update the manual as appropriate to eliminate ambiguity.

**STATUS:** 04/21/08 ACCEPTED--Several SEBs already exists to properly separate Ground-Neutral in 95% of MF configurations. The Fleet has reported completion of SEBs, yet NI Engineering and MGySgt Eland have found several instances where G-N separation was not properly installed. NI Engineering and General Dynamics have visited MALS-24 and MALS-11 in an effort to validate G-N separation and provide power distribution/load balancing training. Effort still IW.  
05/29/08 To remain open until 100% G-N separation has been achieved.

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04/30/09 Update: Ground-Neutral conductor separation within MFs is still in progress but near conclusion. MALS-12 and MALS-36 remain. Once completed, the current requirement shown in the AG-360MF-IIN-000 manual to directly earth ground every MF will be changed.

After G-N separation, the MFs that will require direct earth grounding will be the following:

- (1) All INU-MFs.
- (2) MFs that receive power directly from a power source (pop-up connector or generator).  
(Example of this type of MF is a high-power-requirement, stand-alone that is powered directly from the pop-up.)
- (3) MF containing test equipment requiring an earth ground shall be directly earth grounded. (An example is the CASS which requires a low 5 ohms to earth per their FRD.)

Definition of direct earth ground is following: A connection from the ground stud located on the MF power input panel to the closest available earth ground connection point (ground rod or earth ground plate).

ACTION AGENCY: NI Engineering