

ENGINEERING PRACTICE STUDY  
TITLE: REVIEW OF TERMINAL Y1 CONNECTED TO TERMINALS X1 AND X2  
DURING INSULATION RESISTANCE AND DIELECTRIC WITHSTANDING  
VOLTAGE TESTS FOR  
MIL-PRF-83726/36A  
PROJECT NUMBER 5945-2011-002

14December 2010

STUDY PROJECT

FINAL REPORT

Study Conducted by Erika Baker

Prepared by:

Erika Baker

## ENGINEERING PRACTICE STUDY

Investigation of modifying the requirements for terminals X1 and X2 connection during  
Insulation resistance and Dielectric withstanding voltage tests, for  
MIL-PRF-83726/36A

**OBJECTIVES:** Survey the manufacturers and document custodians/reviewers to determine the acceptability of modifying MIL-PRF-83726/36 insulation resistance and dielectric withstanding voltage tests to include Terminal Y1 must be connected with Terminals X1 and X2 during the tests.

I.

- II. **BACKGROUND:** At this time MIL-PRF-83726/36 requires terminal X1 and X2 be connected during the insulation resistance and dielectric withstanding voltage tests. A manufacturer requested a change to add the connection of Terminal Y1 to the Terminals X1 and X2 for the Insulation resistance and the Dielectric withstanding voltage tests.
- III. **RESULTS:** A survey letter was sent to all QPL manufacturers and document custodians/reviewers. The response concurred with the proposal to add the connection of Terminal Y1 to Terminals X1 and X2 for the Insulation resistance and the Dielectric withstanding voltage tests.
- IV. **CONCLUSION:** It was determined that DLA Land and Maritime will change the electrical requirements to include Terminal Y1 must be connected with Terminals X1 and X2 during the Insulation resistance and Dielectric withstanding voltage tests..
- V. **RECOMMENDATION:** If there is a specific need to further modify MIL-PRF-83726/36A please notify Erika Baker (614) 692-4481 or Email [Erika.Baker@dla.mil](mailto:Erika.Baker@dla.mil). I will be glad to work with the manufacturers and document custodians/reviewers to find a solution.

(5945-2011-002)