

ENGINEERING PRACTICE STUDY  
TITLE: REVIEW OF CAPACITIVE LOAD, BURN IN, AND INDUCTIVE LOAD  
TEST  
MIL-PRF-6106/15-004  
PROJECT NUMBER 5945-2010-030

29 November 2010

STUDY PROJECT

FINAL REPORT

Study Conducted by Erika Baker

Prepared by:

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ENGINEERING PRACTICE STUDY  
Investigation of Capacitive load, burn in, and inductive load test, for  
MIL-PRF-6106/15-004

**OBJECTIVES:** This engineering practice study is being conducted to determine the acceptability of modifying the following M6101/15-004 tests: capacitive load, burn in, and inductive load. Remove the capacitive load test since the military and OEM are not using the M6106/15-004 in a capacitive load circuit. Remove the burn in load. Reduce the inductive load from 55,000 cycles to 50,000 cycles to reflect the number of cycles the manufacturer is able to successfully achieve.

**BACKGROUND:** At this time MIL-PRF-6106/15-004 requires a capacitive load test, a burn-in test, and an inductive load test of 55,000 cycles.

- I. **RESULTS:** A survey letter was sent to all QPL manufacturers and document custodians/reviewers. The response supported reducing the inductive load test from 55,000 cycles to 50,000 cycles. The response did not concur removing the capacitive load and burn in tests.
- II. **CONCLUSION:** It was determine DLA Land and Maritime will maintain the current requirement for the capacitive load and burn in tests. DLA Land and Maritime shall modify MIL-PRF-6106/15D to reduce the inductive load test from 55,000 cycles to 50,000 cycles.
- III. **RECOMMENDATION:** If there is a specific need to modify the MIL-PRF-6106/15D requirements 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.

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