

ENGINEERING PRACTICE STUDY
TITLE: REVIEW OF RESISTANCE TO SOLVENTS INSPECTION FOR
MIL-PRF-6106
PROJECT NUMBER 5945-2008-020

18 March 2009

STUDY PROJECT

FINAL REPORT

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ENGINEERING PRACTICE STUDY

Investigation of Resistance to solvents inspection, Table VII, for MIL-PRF-6106L

- I. **OBJECTIVES:** Survey the manufacturers and document custodians/reviewers to determine the feasibility of eliminating the existence resistance to solvents inspection of MIL-STD-202; method 215, and satisfy the resistance to solvents inspection by submerging the material for a period of 1 hour, in each of the following materials: hydraulic fluid (MIL-PRF-87257), jet engine fuel (MIL-DTL-5624), gasoline (ASTM D910), and deicing fluid (SAE AMS 1435).
- II. **BACKGROUND:** During a QPL site visit the manufacturer questioned the relevancy of the existing test method and suggested product marking be tested using gasoline, diesel/jet fuel, and hydraulic oil.
- III. **RESULTS:** A survey letter was sent to all QPL manufacturers and document custodians/reviewers. The response did not concur with the proposal to change the existing resistance to solvents inspection.
- IV. **CONCLUSION:** It was determine that DSCC could not adopt the proposed inspection due to the potential risk of fluid entering the contact cavity, resulting in final group test failure.
- V. **RECOMMENDATION:** If there is a specific need to modify the MIL-PRF-6106L requirements of MIL-STD-205; method 215 please notify Erika Baker (614) 692-4481 or Email 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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