

ENGINEERING PRACTICE STUDY

TITLE: Survey to determine the future for MIL-PRF-85045/8 (Modify Optical Testing Requirements, Remove Qualification, or Cancel Document)

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Project Number 6015-2017-001

FINAL REPORT

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OBJECTIVES. Survey to determine the future for MIL-PRF-85045/8 (Modify Optical Testing Requirements, Remove Qualification, or Cancel Document)

BACKGROUND.

Navy-SH released revision G of the general specification in June 2014 with extensive changes. A major change during revision G was the introduction of new optical test requirements in MIL-STD-1678. We are the preparing activity for MIL-STD-1678 and we published the standard with the technical support of Navy-SH. The optical test requirements changed extensively. The major changes incorporated the following optical measurements:

MIL-STD-1678-2 Measurement 2102 (Change in Optical Transmittance)
MIL-STD-1678-2 Measurement 2202 (Optical Test Instrumentation)
MIL-STD-1678-2 Measurement 2203 (Launch Conditions)

The single qualified source, Optical Cable Corp. was not able to determine if their measurement methods met the MIL-STD-1678 requirements. We were not able to determine if their measurements met the new requirements and Navy-SH was not able to help either. Optical Cable Corp. has requested that we allow them to revert to the optical testing that was required in the F revision of MIL-PRF-85045 for their MIL-PRF-85045/8 testing.

We believe that we have three options for MIL-PRF-85045/8.

1. Revert to optical testing requirements from MIL-PRF-85045F,
2. Remove qualification, or
3. Cancel the specification sheet if no longer needed.

RESULTS. The document was reviewed and a DoD position has been determined.

CONCLUSIONS. The document, MIL-PRF-85045/8 will be amended.

RECOMMENDATIONS.

- a. A project number has been established to amend MIL-PRF-85045/8 and add MIL-PRF-85045 Revision F, Optical Requirements, within MIL-PRF-85045/8.