ENGINEERING PRACTICE STUDY

PROJECT NUMBER: 5998-2007-001

TITLE: REVIEW OF NON-GOVERNMENT STANDARDS COVERING PRINTED WIRING BOARD TEST METHODS FOR VERIFYING ENVIRONMENTAL CONDITIONS

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FINAL REPORT

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ATTCH 2

I. OBJECTIVES: The objective of this study was to obtain from the military users comments or concurrence on the adoption of three non-Government standards (NGS) published by the IPC - Association Connecting Electronics Industries. The three NGS documents are listed in attachment 1. Since these documents have been finalized and released by the Non-Government standards body (NGSB), any essential or negative comments received would either negate adoption or in the case of suggested comments, the comment would be submitted to the IPC for inclusion in the next revision of the individual NGS.

II. BACKGROUND: These three NGS documents are currently not referenced by any Department of Defense specification, but are planned to be referenced in a proposed specification sheets for MIL-PRF-31032. These NGS documents would be used for optional requirements and their related verification inspection.

III. RESULTS: An electronic mail message with hyper links to the subject NGS documents was sent to Department of Defense and Government activities asking for their comments or concurrence concerning the contents of the NGSs. During the 45 day review cycle DSCC received negative comments regarding the adoption of IPC-TM-650 number 2.6.9 and suggested comments for the other two NGS.

IV. CONCLUSIONS: Based on the fact that there were not any negative comments for two of the subject NGS document, these two NGS documents should have DoD notices of adoptions prepared and issued. Based on the contents of negative comments regarding IPC-TM-650 number 2.6.9, a DoD notice of adoptions will not be prepared until the concerns raised by the commentor are resolved.

V. RECOMMENDATIONS: Initiate standardization projects to prepare and issue notices of adoption for the two NGS documents without negative comments (IPC-TM-650 numbers 2.6.3.5 and 2.6.15). The negative comments received regarding IPC-TM-650 number 2.6.9 will be forwarded to the NGSB for action. DSCC will monitor this NGS document for future consideration.

IPC DOCUMENTS REVIEWED FOR ADOPTION

IPC-TM-650, Number 2.6.3.5, “Bare Board Cleanliness by Surface Insulation Resistance”.
Document date: The original test method was issued January 2004.
URL: http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2-6-3-5.pdf

IPC-TM-650, Number 2.6.9, “Vibration, Rigid Printed Board”.
Document date: Revision B was issued May 2004.
URL: http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.6.9B.pdf

IPC-TM-650, Number 2.6.15, “Conductive Anodic Filament (CAF) Resistance Test: X-Y Axis”.
Document date: The original test method was issued November 2003.
URL: http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2-6-25.pdf