

ENGINEERING PRACTICES STUDY

PROJECT NUMBER: 5998-2008-017

TITLE:

Engineering Practices Study for Data Gathering for the purpose of Withdrawal of Adoption of Non-Government Standard Test Methods for Mechanical Tests of Laminates and Prepregs

21 May 2008

FINAL REPORT

Prepared by:

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ATTCH 1

I. OBJECTIVES: The objective of this study was to obtain from the military users either comments or concurrence on the proposed withdrawal of adoption of five non-Government standards (NGS) published by the IPC – Association Connecting Electronics Industries (IPC). The five NGS documents that were reviewed for withdrawal of adoption are listed in attachment 1.

II. BACKGROUND: The five NGS documents, IPC-TM-650 test methods, were referenced and used by MIL-S-13949 for evaluating the mechanical properties of both laminates and prepreg materials. The five NGS documents are no longer needed for DoD use since MIL-S-13949 has been canceled without replacement.

III. RESULTS: An electronic mail message survey was sent to 20 Department of Defense and Government activities asking for their comments or concurrence concerning the withdrawal of the five NGS documents. All responses were in concurrence with the withdrawal of the five NGS documents. There were no negative or essential comments submitted.

IV. CONCLUSIONS: Based upon the fact that all responses were in concurrence with the withdrawal of the adoptions, notices should be prepared to withdraw the five NGS documents from Government use.

V. RECOMMENDATIONS: After this final report is coordinated with the activities that responded, DSCC-VAC will initiate standardization projects to prepare and issue notices of withdrawal for the five NGS documents.

Attachment for Project Number 5998-2008-017

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| IPC-TM-650 Number | Rev | Title and URL  | Date  |
|-------------------|-----|--|-------|
| 2.4.25            | C   | Glass Transition Temperature<br><a href="http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.25c.pdf">http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.25c.pdf</a>  | 12/94 |
| 2.4.38            | A   | Prepreg Scaled Flow Testing<br><a href="http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.38a.pdf">http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.38a.pdf</a>   | 06/91 |
| 2.4.39            | A   | Dimensional Stability, Glass Reinforced Thin Laminates<br><a href="http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.39a.pdf">http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.39a.pdf</a>                                  | 02/86 |
| 2.4.41            | --- | Coefficient of Linear Thermal Expansion of Electrical Insulating Material<br><a href="http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.41.pdf">http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.41.pdf</a>                 | 03/86 |
| 2.4.41.1          | A   | Coefficient of Thermal Expansion by the Vitreous Silica (Quartz) Dilatometer Method<br><a href="http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.41.1a.pdf">http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.4.41.1a.pdf</a> | 08/97 |