

ENGINEERING PRACTICES STUDY

PROJECT NUMBER: 5998-2012-016

TITLE:

Investigation of Non-Government Standard Test Method
IPC-TM-650 number 2.3.28.2 for Potential DoD Adoption

FINAL REPORT

DATE: 26 November 2012

Prepared by:
/ Signed /
Joshua Civiello
Electronics Engineer
Active Devices Branch

Approved by:
/ Signed /
Thomas M. Hess
Chief
Active Devices Branch

ATTCH 1

I. **OBJECTIVES**: The objective of this study was to obtain from the military users either comments or concurrence on the proposed adoption of one non-Government standard (NGS) test method published by the Association Connecting Electronics Industries (IPC). The NGS document reviewed for consideration for DoD adoption was IPC-TM-650 number 2.3.28.2 "Bare Printed Board Cleanliness by Ion Chromatography". An electronic copy of the subject document can be viewed or downloaded from the following URL:

http://www.ipc.org/4.0_Knowledge/4.1_Standards/test/2.3.28.2.pdf

II. **BACKGROUND**: The subject NGS test method is designed to measure the level of anionic and cationic residues on the surface of unpopulated (bare) printed boards by ion chromatography. The DoD adopted IPC-TM-650 number 2.3.28.2 and will be referenced in MIL-PRF-31032, MIL-P-50884, and MIL-PRF-55110. The subject NGS test method is being considered to be used as an alternative test method for determining the ionic cleanliness of bare printed wiring boards.

III. **RESULTS**: The subject NGS was distributed by electronic mail message to 20 Department of Defense and Government activities requesting their input (comments or concurrence) regarding the contents of subject NGS document. The review cycle was 30 days. All responses were in concurrence with the adoption of the subject NGS document. There were not any negative or valid essential comments submitted.

IV. **CONCLUSIONS**: Based upon the fact that there were not any valid negative comments with the adoption proposal, a notice should be prepared for the DoD adoption of IPC-TM-650 number 2.3.28.2.

V. **RECOMMENDATIONS**: DLA Land and Maritime - VAC will initiate a standardization project to prepare and issue a notice of adoption for IPC-TM-650 number 2.3.28.2 without further coordination. Attached is a proposed DoD notice of adoption for IPC-TM-650 number 2.3.28.2.

IPC-TM-650.2.3.28.2

ADOPTION NOTICE

IPC-TM-650 number 2.3.28.2, "Bare Printed Board Cleanliness by Ion Chromatography", was adopted on **DAY MONTH YEAR** for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Defense Logistics Agency, DLA Land and Maritime, ATTN: VAC, P.O. Box 3990, Columbus OH 43218-3990 or 5998.Documents@dla.mil. Copies of this standard may be purchased or downloaded from the IPC – Association Connecting Electronics Industries (IPC), 3000 Lakeside Drive, Suite 309 S, Bannockburn, IL 60015-1249 or at URL: <http://www.ipc.org>.

Custodians:
Army – CR
Navy – EC
Air Force – 85
DLA – CC

Adopting activity:
DLA – CC

Project: **5998-YEAR-NUM**

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.