

ENGINEERING PRACTICE STUDY
PROJECT NUMBER: 5998-2010-047

TITLE:

Review of Non-Government Standard (NGS) IPC-TM-650 number 2.1.1
To Determine The Status Of Its DoD Adoption.

26 January 2011

FINAL REPORT

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ATTCH 3

I. **OBJECTIVES:** The objective of this study was to evaluate the status of IPC–TM–650 number 2.1.1, "Microsectioning, Manual Method" in regards to its worth as a viable document for use by the Defense Standardization Program (DSP) using the following criteria:

- a. Determine the value and use of IPC–TM–650 number 2.1.1 as a DoD adopted document within the DSP.
- b. Evaluate the activities by the non-Government standard body (NGSB) regarding the document.
- c. Reviewing the actual notice of adoption on the ASSIST web site that is administered by the Document Automation and Production Service (DAPS) for accuracy and errors.

II. **BACKGROUND:** IPC–TM–650 number 2.1.1 was originally adopted on 6 December 1988 in FSC 5999 (see attachment 1) for use in MIL–P–50884 and MIL–P–55110. For reasons unknown, the document did not exist in ASSIST in the early 2000s, so it was adopted again on 24 May 2004 (see attachment 2) in FSC 5998. The notice of adoption has not been revised since being issued on 24 May 2004. IPC–TM–650 number 2.1.1 was developed and published its non-Government standard body (NGSB), the IPC – Association Connecting Electronics Industries. IPC–TM–650 number 2.1.1 has not been revised since it was last revised by the IPC in May of 2004. The NGSB group responsible for IPC–TM–650 number 2.1.1 has not met for nearly six years.

III. **RESULTS:** After a thorough review of IPC–TM–650 number 2.1.1, ASSIST, and the printed board documents managed by DLA Land and Maritime, the answers to the questions posed in section I of this study are as follows:

- a. Use of the NGS in DoD documents: ASSIST revealed that there is no usage of IPC–TM–650 number 2.1.1, within DoD standardization documents. This is not correct since it is called out in MIL–PRF–31032/1, MIL–PRF–31032/4, MIL–PRF–31032/5, MIL–PRF–55110, and MIL–P–50884 for testing of product for acceptance.
- b. NGSB activity: The IPC has reactivated subcommittee 7-12 to after a 6 year hiatus update this test method in April of 2010. The subcommittee meets twice a year in person and intermittently by teleconference. DLA Land and Maritime VAC has attended those meetings and will attend future meetings as practical.
- c. Status of the DoD Notice: A review of the actual notice of adoption that is on the ASSIST web site (attachment 3) uncovered mistakes. The following is a compilation of the errors in the adoption notice on the ASSIST web site:
 1. The NGSB address on the adoption notice is incorrect.
 2. The point of contact data for DLA Land and Maritime has been changed and needs to be updated.
 3. The Air Force custodian has changed from code 11 to code 85.

A proposed updated notice highlighting these errors is included as attachment 4.

IV. **CONCLUSION:** Based on its usage within MIL–PRF–31032/1, MIL–PRF–31032/4, MIL–PRF–31032/5, MIL–PRF–55110, and MIL–P–50884 for product acceptance, IPC–TM–650 number 2.1.1 is a valued standardization document that benefits the DoD standardization program.

V. **RECOMMENDATION:** IPC–TM–650 number 2.1.1 should continue to be available for citing by DoD standardization documents. Therefore, an updated notice of adoption for IPC–TM–650 number 2.1.1 should be issued.

NOTICE OF
ADOPTION

ADOPTION NOTICE 1
6 December 1988 for
IPC-TM-650
Method 2.1.1B
August 1980

IPC-TM-650, Method 2.1.1B was adopted on 6 December 1988 and is approved for use by the Department of Defense (DoD). The Institute for Interconnecting and Packaging Electronic Circuits (IPC) prepared the document. IPC has furnished clearances required by existing regulations. Copies of this document are stocked by the DoD Single Stock Point, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120, for issue to DoD activities only. All other requestors must obtain documents from:

The Institute for Interconnecting and Packaging Electronic Circuits
7380 North Lincoln Avenue
Lincolnwood, IL 60646

Title of Document: Microsectioning

Date of Specific Issue Adopted: August 1980

Releasing Non-Government Standards Body: The Institute for Interconnecting and Packaging Electronic Circuits

Custodians: Military Coordinating Activity
Army - ER Army - ER
Navy - EC
Air Force - 85 (Project 5999-0241)

Review Activities:
Army - AT, AR, CR, EA, ME, MI
Air Force - 15, 17, 99

FSC 5999

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ADOPTION NOTICE

IPC-TM-650, Number 2.1.1, "Microsectioning, Manual Method", was adopted on 24 May 2004, for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Defense Logistics Agency, Defense Supply Center, Columbus, ATTN: DSCC-VAC, P.O. Box 3990, Columbus, OH 43216-5000. Copies of this standard may be purchased from the Association Connecting Electronics Industry, 2215 Sanders Road, Suite 200 South, Northbrook, IL 60062-6135, URL: <http://www.ipc.org>.

Custodians:

Army – CR
Navy – EC
Air Force – 11
DLA – CC

Adopting Activity:
DLA – CC

(Project 5998–0157)

Reviewer Activity:

Army – AR, AT, EA, MI
Air Force – 99

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Custodians:

Army – CR
Navy – EC
Air Force – ~~11~~ **85**
DLA – CC

Adopting Activity:

DLA – CC

(Project ~~5998-YEAR-NUM~~)

Reviewer Activity:

Army – AR, AT, EA, MI
Air Force – 99