



TRACE LABORATORIES, INC.

UPDATE ON MILITARY QUALIFICATION AND CONFORMANCE OF PRINTED CIRCUIT BOARDS

Rev. April 2010

SPECIFICATION RELEASES

- **MIL-PRF-55110G with Amendment 3** is complete and officially dated February 29, 2008. To obtain a copy please visit DSCC's website at:
<http://www.dsccl.dla.mil/Downloads/MilSpec/Docs/MIL-PRF-55110/prf55110.pdf>
- **MIL-P-50884E with Amendment 2** is complete and dated February 14, 2010. To obtain a copy of the new revision, please visit:
<http://www.dsccl.dla.mil/Programs/MilSpec/lisdocs.asp?BasicDoc=MIL-P-50884>
- A new **19W Form** was issued in July 2008. To be sure you are following the current qualification requirements, please visit:
<http://www.dsccl.dla.mil/downloads/VQGeneral/FE19Wcurrent.pdf>
- Amendment 4 is available for the following **MIL-PRF-31032** specifications:
 - MIL-PRF-31032/1B
 - MIL-PRF-31032/2A
 - MIL-PRF-31032/3A
 - MIL-PRF-31032/4A
- The initial draft of **MIL-PRF-31032/5, Amendment 1** now available on DSCC's website.

Download each MIL-PRF-31032 specification at:

<http://www.dsccl.dla.mil/Programs/MilSpec/listdocs.asp?BasicDoc=MIL-PRF-31032>

TRACE NEWS

Trace is pleased to announce that Renee Michalkiewicz has taken the position of General Manager at the Maryland location of Trace Laboratories, Inc.

For more information, please visit:
http://www.incompliancemag.com/index.php?option=com_content&view=article&id=276:renee-michalkiewicz-promoted-to-general-manager&catid=22:people&Itemid=149

CONTACT INFORMATION

For more information regarding topics covered in this Spotlight or any other testing needs, please contact:

Elizabeth Allison at (410) 229-4362 or
eallison@tracelabs.com

Visit us on the web at:
www.tracelabs.com

GROUP B SUBMISSION GUIDE

- All Group B submissions are required by DSCC to be submitted within **30 days** after the production month of the samples. When late submissions are received, we **must** notify your DSCC point of contact for permission to proceed with testing.



MILITARY SPOTLIGHT

TRACE LABORATORIES, INC.

- The master drawings or design information are **required** when submitting Group Bs to Trace. Testing **cannot** be completed without this information. A laboratory notice will be issued this month regarding this to all labs from DSCC.
- A minimum of 2 coupons from the most complex design for the particular calendar month are to be submitted for the following tests:
 - Rework Simulation
 - MIR and DWV
 - Peel Strength (if foil lamination is used)
 - Resistance To Solvents (if procedure not performed during Group A inspection and marking ink is present)
- To ensure your Group B samples will not be returned please be sure coupons are marked with:
 - Manufacturer's CAGE code
 - Lot date
 - Part Number
 - Serial Numbers
- If Peel Strength coupons are submitted, please remove all coatings and finishes prior to submitting samples for Group B testing. The removal of coatings and finishes **cannot be performed by Trace.**

MIL-PRF-55110 or MIL-P-50884 QUALIFICATIONS

What to submit:

- Approved Page 4 of 19W form
- Group A test results
- Traveler used for production
- As Received, Thermal Stress, and Solderability samples
- Two (2) boards for Qualification testing
- Copies of material conformance certifications used for production

Helpful tips:

- If foil lamination was used during the production of the qualification boards, P coupons shall be added to the D location of the qualification boards
- Marking of serial numbers and date code is to be near the **center of the H-2 coupon on layer 1**
- Review the requirements of the appropriate Attachment to the 19W Form, Master Drawing Replacement Requirements



MILITARY SPOTLIGHT

TRACE LABORATORIES, INC.

MEET YOUR MILITARY TEAM



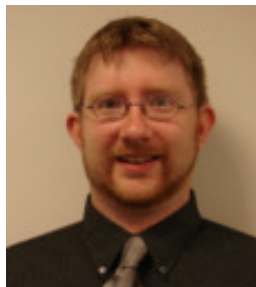
Elizabeth Allison
Supervising Engineer

Elizabeth has been with Trace for six years. She currently oversees printed circuit board qualification and testing per military standards, IPC standards, and customers' specifications. Elizabeth is IPC-A-600 certified.



Sonja Ehrhardt
Engineer

Sonja has been with Trace for nearly two years. Her technical responsibilities include Military qualification and retention testing. Her military expertise includes the MIL-PRF-55110, MIL-P-50884 and MIL-PRF-31032 documents. She is IPC-A-600 certified.



Michael Allison
Engineer

Michael has been with Trace for almost five years. His expertise includes Conformal Coating Testing per MIL-I-46058 and IPC-CC-830, Surface Insulation Resistance (SIR), Electrochemical Migration (ECM) and Conductive Anodic Filament (CAF) Testing. Michael is IPC-A-600 certified.