



SEMI® INTERNATIONAL STANDARDS

North America (N.A.) TC Chapters of the Facilities and Gases Global Technical Committees

Liaison Report

July 2015



SEMI® INTERNATIONAL STANDARDS

**N.A. TC Chapter of the
Facilities Global Technical Committee**

Co-chair



Steve Lewis – DPS Engineering

N.A. Facilities Organization Chart

N.A. Facilities Technical Committee Chapter
C: Steve Lewis – DPS Engineering

**Building Information Modeling (BIM)
for Semiconductor Capital
Equipment TF**
L: Ben Bruce – Applied Materials

F51 (Elastomer) Revision TF
L: Dalia Vernikovsky – Applied Seals

Meeting Information

- Last meeting
 - July 13 and July 14, 2015 @ N.A. Standards Meetings at SEMICON West 2015
 - San Francisco Marriott Marquis Hotel in San Francisco, CA
- Next meeting
 - November 2 and November 3, 2015 at N.A. Standards Fall 2015 Meetings
 - SEMI Headquarters in San Jose, CA

Ballot Review Summary

Cycle 4-2015

Document #	Document Title	TC Chapter Action
5080B	Revision of SEMI F5 I-0200, Guide for Elastometric Sealing Technology	Passed with technical changes, Ratification Ballot required

Current Ballot

Cycle 6-2015

Document #	Document Title	TF / SC
R5080B	Revision of SEMI F51-0200, Guide for Elastometric Sealing Technology	SEMI F51 Revision TF

SEMI F5 I (Elastometric Sealing) Revision TF

- **Update on Document 5080B: Revision of SEMI F5 I-0200, Guide for Elastomeric Sealing Technology**
 - The TF recommended technical changes to Document R5080B based on feedback received for Document 5080B
 - Document will be balloted as a Ratification Ballot in Cycle 6, 2015
 - TC Chapter approved that this activity is continuing.

Building Information Modeling (BIM) for Semiconductor Capital Equipment TF [1/2]

- A 3-D model will work with multiple different software applications and needs to reflect true dimensions of the semiconductor fabrication tool with its location and interface point.
- Drafting Doc. 5155, *New standard: Guide for Building Information Modeling (BIM) for Semiconductor Capital Equipment*
- **No TF report received, but TC Chapter approved that this activity is continuing.**
 - Prior minutes posted on:
<https://sites.google.com/a/semi.org/bim-tf/>

Building Information Modeling (BIM) for Semiconductor Capital Equipment TF [2/2]

- The TF is assisting the PI&C committee to update SEMI E72, *Specification and Guide for 300 mm Equipment Footprint, Height, and Weight*
 - SEMI E72 is long overdue for 5-year review
 - Future plans and activities to update SEMI E72:
 - » Implementing Building Information Modeling (BIM) for equipment modeling and floor plans
 - » Future joint TF between the NA PIC TC Chapter and NA Facilities TC Chapter – Doc. 5817 is being revised by NA PIC TF
 - » Address issues such as variations in fab layout, factory, ceiling height, moving weight, and ergonomics for the equipment
 - » Standardization of definitions, concepts, and interfaces with input from suppliers, vendors and end users
 - » Revise SEMI E6 (Semiconductor Equipment Installation) and SEMI E52 (Facilities Services) at the same time

Next N.A. Facilities Meeting Schedule

- Fall 2015 N.A. Standards Meetings
 - SEMI Headquarters
3081 Zanker Road
San Jose, CA 95134
U.S.A.
 - Monday, November 2*
 - SEMI F5I (Perfluoroelastomer) TF (12:30 PM to 2:30 PM)
 - Building Information Modeling (BIM) TF (3:00 PM to 5:00 PM)
 - Tuesday, November 3*
 - Joint Facilities and Gases TC Chapters (9:00 AM to 12:00 PM)

*All times are in Pacific Time. Times and dates are subject to change without notice.



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N.A. TC Chapter of the Gases Global Technical Committee

Cochairs



Tim Volin – Parker Hannifin



Mohamed Saleem – Fujikin

N.A. Gases Organization Chart

N.A. Gases Technical Committee Chapter
C: Tim Volin – Parker Hannifin
C: Mohamed Saleem – Fujikin

Mass Flow TF
Mohamed Saleem – Fujikin

Filters & Purifiers TF
Mohamed Saleem – Fujikin

Heater Jacket TF
David Colquhoun –
BriskHeat

Materials of Construction
Gas Delivery Systems TF
Tim Volin – Parker Hannifin
Bill Kiikvee – AP TECH

Pressure Measurement TF
Joyce Chen – UCT
Jeff Christian – Wika

Surface Mount Sandwich
Component Dimensions TF
Matt Milburn – UCT

Gas Specifications TF
Mark Ripkowski – CONSCI

Meeting Information

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Ballot Review Summary

Document #	Document Title	TC Chapter Action
Cycle 4, 2015		
5667A	New Standard: Test Method for Determination of Moisture Dry-Down Characteristics of Gas Delivery Components	Passed TC Chapter review as balloted

New Activities

- New SNARFs:
 - None
- Revised SNARFs:
 - 5816: Revision to SEMI F30 – Start Up and Verification of Purifier Performance Testing for Trace Gas Impurities and Particles at an Installation Site
 - Line item revision to correct nonconforming title

Upcoming Ballots

Document #	Document Title	When
5876	Test Method for Determining the Critical Pitting Temperature of Stainless Steel Surfaces Used in Corrosive Gas Systems by Use of a Ferric Chloride Solution	Cycle 6, 2015
R5671C	Revision of SEMI C3.12-1109, Specification for Ammonia (NH ₃) in Cylinders, 99.998% Quality	Cycle 6, 2015
R5673C	Revision of SEMI C3.34-1109, Specification for Disilane (Si ₂ H ₆) in Cylinders, 97% Quality	Cycle 6, 2015
5816A	Revision to SEMI F30 – Start Up and Verification of Purifier Performance Testing for Trace Gas Impurities and Particles at an Installation Site	Cycle 7, 2015

Gases Task Force Reports [1/4]

- Heater Jacket TF
 - No report given or received yet.
- Mass Flow Controller (MFC) TF
 - Discussion on a possible error in F62

Gases Task Force Reports [2/4]

- Pressure Measurement TF
 - Update for Document 3440, *New Standard: Test Method For Pressure Transducers In Gas Delivery Systems*
 - The TF discussed the following for the Document:
 - Continue with the “test method” Standard (SEMI Draft 3440) through the incorporation of IEC 61298-2:2008
 - Create a SEMI “stand-alone” Document
 - Define transducer and/or instrumentation selection based on its point in the application
 - Pursue a finalized Document for Task Force Review (potential balloting) by Fall 2015
 - The TC Chapter found the activity on Document 5816 to be continuing and granted a 1-year extension to the activity.
- Surface Mount Sandwich Component Dimensions TF
 - The TF reviewed the ballot results of Document 5595, *New Standard: Guide for the Development of Dimensional Standards for “Sandwich” Surface Mount Components*
 - The Document is currently in publication.
 - The TF will be disbanded after the Document is published.

Gases Task Force Reports [3/4]

- Filter and Purifiers TF
 - The TF reviewed the ballot results of Documents 5667A
 - Document 5667A (New Standard: Test Method for Determination of Moisture Dry-Down Characteristics of Gas Delivery Components)
 - Ballot received 1 Reject (4 Negatives) but passed as balloted
 - Document 5815 (F28) and 5816 (F30): Both were reapproval ballots and passed TC Chapter review. 5816 (F30) failed A&R SC review for title nonconformance.
 - The TC Chapter found the activity on Document 5667 to be continuing and granted a 1-year extension to the activity.
 - Document 5667 (New Standard: Test Method for Determination of Moisture Dry-Down Characteristics of Gas Delivery Components)
 - Update on Document 5244B, *Revision to SEMI F21, Classification of Airborne Molecular Contaminant Levels in Clean Environments*
 - Entegris still working on updating the Document. Pall offered to help. The TF Leader will send the Draft Document to Pall and together attempt to modify it for balloting.
 - There is no further activity and the TF will follow up with Pall

Gases Task Force Reports [4/4]

- **Materials of Construction of Gas Delivery Systems TF**
 - The TF reviewed Draft Document 5876 and recommended it for balloting.
 - 5876: New Standard: Test Method for Determining the Critical Pitting Temperature of Stainless Steel Surfaces Used in Corrosive Gas Systems by Use of a Ferric Chloride Solution
 - The Document is completed and will be balloted in Cycle 6, 2015
 - The TF needs volunteers to perform reviews for the following Documents:
 - SEMI F6, Guide for Secondary Containment of Hazardous Gas Piping Systems
 - SEMI F13, Guide for Gas Source Control Equipment
 - SEMI F14, Guide for the Design of Gas Source Equipment Enclosures
- **Gas Specifications TF**
 - The TF reviewed the ballot results of Doc. 5671C and 5673C.
 - Documents 5671C (C3.12) and 5673C (C3.34): Both passed TC Chapter review with technical and editorial changes and will be issued as Ratification Ballots for Cycle 6, 2015

Next N.A. Gases Meeting Schedule

- **Fall N.A. Standards Meetings**

- SEMI Headquarters

- 3081 Zanker Road

- San Jose, CA 95134 U.S.A.

- **Monday, November 2***

- Materials of Construction of Gas Delivery Systems TF (8:00 AM to 9:30 AM)

- Filters and Purifiers TF (9:30 AM to 11:00 AM)

- Mass Flow Controller TF (11:00 AM to 12:00 PM)

- Gas Specifications TF (1:00 PM to 2:00 PM)

- Surface Mount Sandwich Component Dimensions TF (2:00 to 3:00)

- Pressure Measurement TF (15:00 to 17:00)

- **Tuesday, November 3***

- Joint Facilities and Gases TC Chapters (9:00 AM to 12:00 PM)

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Thank You!

For more information or to participate
in any N.A. Facilities & Gases activities,
please contact

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