



Metrics NA TC Chapter Meeting Summary and Minutes

SEMICON West
Tuesday, July 9, 2024
3:00-5:30 PM Pacific Time

TC Chapter Announcements

Next TC Chapter Meeting

Tuesday, November 5, 2024

3:00-5:30 PM Pacific Time

SEMI HQ, Milpitas

Table 1 Meeting Attendees

Italics indicate virtual participants

Cochairs: David Bouldin (Fab Consulting), Mark Frankfurth (Cymer), Vladimir Kraz (BestESD)

SEMI Staff: Michelle Sun

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
BestESD	Kraz	Vladimir	SEMI	Sun	Michelle
Bird Electronic Corp	Dummermuth	Martin	SUNY RF (Albany)	<i>Eisenbraun</i>	<i>Eric</i>
Botron	McClain	Chuck	Teilch	Godoy	Pedro
Fab Consulting	<i>Bouldin</i>	<i>David</i>	Tokyo Electron	Hama	Naoya
Intel Corporation	<i>Schneider</i>	<i>Paul</i>	Tokyo Electron Ltd.	Mashiro	Supika
KLA Corporation	<i>Ganev</i>	<i>Todor</i>	Zama Consulting	<i>Sakamoto</i>	<i>Mitsune</i>
Perseng	<i>Vaneck</i>	<i>Yitzhak</i>			

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
None		

Table 3 TC Chapter Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
None	

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
7129B	New Standard: Test Method for Liquid Particle Counter Measuring Particles Contamination of Critical Chamber Components and Coupons	Failed
7130B	New Standard: Test Method Using Adhesive Replacement Substrates to Assess Particulate Surface Contamination of Critical Chamber Components	Failed



Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
7235	Reapproval of SEMI E43-0813 (Reapproved 1019), Guide for Electrostatic Measurements on Objects and Surfaces	Passed as balloted

#1 **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

#2 **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 5 Ratification Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>ISC A&R Action</i>	<i>A&R Forms</i>
None			

Note 1: **Passed** Ratification ballots will be submitted to SEMI publication for final processing.

Note 2: **Failed** Ratification ballots were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 6 Activities Approved by the GCS Between Meetings of the TC Chapter

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

Table 7 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

#1 SNARFs and TFOFs are available for review on the SEMI Web site at:

<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF>

Table 8 Authorized Ballots

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
7129C	Cycle 6, 7, or 8-2024	Critical Chamber Components (CCC) TF	New Standard: Test Method for Liquid Particle Counter Measuring Particles Contamination of Critical Chamber Components and Coupons
7130C	Cycle 6, 7, or 8-2024	CCC TF	New Standard: Test Method Using Adhesive Replacement Substrates to Assess Particulate Surface Contamination of Critical Chamber Components

Table 9 SNARF(s) Granted a One-Year Extension

<i>#</i>	<i>TF</i>	<i>Title</i>	<i>Expiration Date</i>
None			

Table 10 SNARF(s) Cancelled

<i>#</i>	<i>TF</i>	<i>Title</i>
None		



Table 11 Standard(s) to Receive Inactive Status

<i>Standard Designation</i>	<i>Title</i>
None	

Table 12 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
None		

Table 13 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
None		

1 Welcome, Reminders, and Introductions

David Bouldin (Fab Consulting) called the meeting to order at 3:05. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: Required Meeting Elements March 2024

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the minutes as written
By / 2nd: By: Paul Schneider / Intel Corporation
 Second: Vladimir Kraz / BestESD
Discussion: None
Vote: 8-Y 0-N

Attachment: Metrics-Minutes-March-2024

3 Liaison Reports

3.1 Metrics Japan TC Chapter

Michelle Sun (SEMI) reported for the Metrics Japan TC Chapter. Of note:

- Meetings
 - Last Meeting: December 13, 2023
 - Next Meeting: July 26, 2024
- Ballot Results
 - 6550A, Revision to SEMI E113-0306 (Reapproved 0518), Specification for Semiconductor Processing Equipment RF Power Delivery Systems [**Passed** with editorial changes]

Attachment: 20240315_MetricsJapan_Liaison_Report_R0



3.2 SEMI Staff Report

Michelle Sun (SEMI) gave the SEMI Staff Report. Of note:

2024 Calendar of Events

- SEMICON West: July 9-11
- SEMICON Taiwan: September 4-6
- SEMICON India: September 11-13
- Energy Taiwan: October 2-4
- SEMICON Europa: November 12-15
- SEMICON Japan: December 11-13

SEMICON West 2025-2030

- **2025—October 7-9 | Phoenix Convention Center | Phoenix, AZ**
- 2026—October 13-15 | Moscone Center | San Francisco, CA
- **2027—October 12-14 | Phoenix Convention Center | Phoenix, AZ**
- 2028—October 10-12 | Moscone Center | San Francisco, CA
- **2029—October 9-11 | Phoenix Convention Center | Phoenix, AZ**
- 2030—October 29-31 | Moscone Center | San Francisco, CA

Upcoming NA Meetings 2024

- NA Standards Fall Meetings
 - o Nov 4-7, 2024
 - o SEMI HQ, Milpitas, CA

Upcoming NA Meetings 2025

Event Name	Date/Venue	Ballot Cycles to Consider (refer to next slides for details)
NA Standards Winter Meetings	Feb 24-27, 2025 <i>[Tentative]</i> SEMI HQ, Milpitas, California/USA	Cycle 9-24 • Ballot Submission Date: Friday, November 8, 2024 • Voting Period Starts: Friday, November 22, 2024 • Voting Period Ends: Monday, December 23, 2024 Cycle 1-25 • Ballot Submission Date: Tuesday, December 17, 2024 • Voting Period Starts: Wednesday, January 8, 2025 • Voting Period Ends: Friday, February 7, 2025
NA Standards Summer Meetings	June 2-6, 2025 <i>[Tentative]</i> SEMI HQ, Milpitas, California/USA	Cycle 3-25 • Ballot Submission Date: Wednesday, March 5, 2025 • Voting Period Starts: Wednesday, March 19, 2025 • Voting Period Ends: Friday, April 18, 2025 Cycle 4-25 • Ballot Submission Date: Thursday, March 20, 2025 • Voting Period Starts: Wednesday, April 9, 2025 • Voting Period Ends: Friday, May 9, 2025
SEMICON West	Oct 9-11, 2025 Phoenix Convention Center Phoenix, Arizona/USA	Cycle 6-25 • Ballot Submission Date: Thursday, June 19, 2025 • Voting Period Starts: Wednesday, July 9, 2025 • Voting Period Ends: Friday, August 8, 2025 Cycle 7-25 • Ballot Submission Date: Thursday, July 24, 2025 • Voting Period Starts: Wednesday, August 13, 2025 • Voting Period Ends: Friday, September 12, 2025



Critical Dates for SEMI Standards Ballots – 2024 & 2025

2024	Ballot Submission Deadline	Voting Opens	Voting Closes
Cycle 6	July 24	August 7	September 6
Cycle 7	August 27	September 10	October 10
Cycle 8	October 1	October 15	November 14
Cycle 9	November 8	November 22	December 23

2025	Ballot Submission Deadline	Voting Opens	Voting Closes
Cycle 1	Dec 17, 2024	January 8	February 7
Cycle 2	January 23	February 11	March 13
Cycle 3	March 5	March 19	April 18
Cycle 4	March 20	April 9	May 9

SEMI Standards Publications

- Total SEMI Standards in portfolio: 1,088
- Includes 342 Inactive Standards

The Use of Connect@SEMI for TF Management and Document Development Depository

- Refer to PM § 6.4.5 Operation of TFs
 - Task Forces have until 02/20/25 to implement use of Connect@SEMI. (<https://connect.semi.org>)
 - Once TFs have implemented use of Connect@SEMI, they shall use it to:
 - Maintain the TF member roster up to date.
 - Share the working drafts.
 - The default format for working Draft Document sharing shall be Adobe Acrobat PDF.
 - Distribute the Draft Document at least one week before ballot submission to SEMI.
- All existing TFs have been set up in Connect@SEMI as Communities with the TF leaders assigned community admin and moderator capabilities
- Training materials for TF leaders and members (users) are available at
 - <https://www.semi.org/standards>
 - Under Standards Developer Resources → Collaboration Tools (scroll to the bottom)

Attachment: Metrics Staff Report July 2024 v4

4 Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

4.1 Document #7129B, New Standard: Test Method for Liquid Particle Counter Measuring Particles Contamination of Critical Chamber Components and Coupons

Motion: Negative is related and persuasive
By / 2nd: By: Supika Mashiro / Tokyo Electron Ltd.
Second: Eric Eisenbraun / SUNY RF (Albany)
Discussion: None
Vote: 8-Y, 0-N

Motion: This Document failed TC Chapter review and will be returned to the TF for rework
By / 2nd: By: Supika Mashiro / Tokyo Electron Ltd.
Second: Pedro Godoy / Teilch
Discussion: None
Vote: 8-Y, 0-N

4.2 Document #7130B, New Standard: Test Method Using Adhesive Replacement Substrates to Assess Particulate Surface Contamination of Critical Chamber Components

Motion: Negative is related and persuasive
By / 2nd: By: Supika Mashiro / Tokyo Electron Ltd.
Second: Pedro Godoy / Teilch
Discussion: None
Vote: 8-Y, 0-N

Motion: This Document failed TC Chapter review and will be returned to the TF for rework
By / 2nd: By: Supika Mashiro / Tokyo Electron Ltd.
Second: Pedro Godoy / Teilch
Discussion: None
Vote: 7-Y, 0-N

5 Subcommittee and Task Force Reports

5.1 EMC TF

Vladimir Kraz (BestESD) reported for the EMC Task Force. This report contained information on:

- Intel Proposal for ELF/VLF and Hitachi input
- Montrose Consulting introduction of proposed changes to E33/E176

Attachment: SEMI EMC TF Meeting 7-8-2024 Summary

5.2 Paul Schneider (Intel) reported for the E-RAMP Task Force.

- The Task Force is continuing work on E10 and E79 webinars



5.3 Chuck McClain (Botron) reported for the ESC/ESD Task Force.

- The Task Force evaluated the ESC/ESD documents, including SEMI E78 and E163.
- SEMI E163 - Guide for the Handling of Reticles and Other Extremely Electrostatic Sensitive (EES) Items Within Specially Designated Areas, went inactive due to lack of support.
- The Task Force would like to evaluate whether changes are required for SEMI E163.

5.4 Supika Mashiro (TEL) reported for the CCC Task Force.

- The Task Force reviewed the feedback on Ballots 7129B and 7130B and recommended to fail the ballots.

6 Old Business

None.

7 New Business

None.

8 Next Meeting and Adjournment

The next meeting is scheduled for Tuesday, November 5, 3:00-5:30 PM Pacific, in conjunction with NA Standards Fall Meetings. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: 4:37.

Respectfully submitted by:

Michelle Sun

Coordinator

SEMI North America

Email: msun@semi.org

Minutes tentatively approved by:

David Bouldin (Fab Consulting), Co-chair	8/17/2024
<Name> (<Company>), Co-chair	<Date approved>

Table 14 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
Required Meeting Elements March 2024	SEMI EMC TF Meeting 7-8-2024 Summary
Metrics-Minutes-March-2024	
20240315_MetricsJapan_Liaison_Report_R0	
Metrics Staff Report July 2024 v4	

#1 Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at www.semi.org. For additional information or to obtain individual attachments, please contact [SEMI Staff Name] at the contact information above.