



EH&S NA TC Chapter Meeting Summary and Minutes

NA Winter Meeting
Thursday, February 12, 2026
8:00 AM – 5:00 PM Pacific
Virtual

TC Chapter Announcements

Next TC Chapter Meeting:

Thursday, May 14, 2026 in conjunction with NA Spring Standards Meetings. Check www.semi.org/en/standards for the latest update.

Table 1 Meeting Attendees

Co-Chair: Chris Evanston (Salus Engineering International)

SEMI Staff: Kevin Nguyen (SEMI)

<i>Company</i>	<i>Last Name</i>	<i>First Name</i>	<i>Company</i>	<i>Last Name</i>	<i>First Name</i>
Tokyo Electron	Aoyama	Kokai	Tokyo Electron	Mashiro	Supika
Lam Research	Crane	Lauren	Intel	Miller	Brandy
VAD Consulting, LLC	DeGiorgio	Vincent	SCREEN	Nishimura	Takayuki
Salus Engineering	Evanston	Chris	Applied Materials	Piampiano	John
ASM	Fessler	Mark	Ergo Design Guide	Schwab	Paul
Intel	Garcia	Dishayne	Safety Guru	Sklar	Eric
Nikon Precision	Girlea	Lucian	Zeiss	Unverricht	David
Applied Materials	Gross	Ben	Tokyo Electron	Wotta	Michael
Teradyne	Kim	JJ	Cymer	Yakimow	Byron
CERTIE	Ko	Kennis			

Note: This was an on-line only meeting.

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
EH&S NA TC Chapter		<ul style="list-style-type: none"> • Lucian Girlea (Nikon Precision) Co-Chair (pending RSC confirmation), Vice-Chair • Eric Sklar (Safety Guru) Co-Chair (pending RSC confirmation), Vice-Chair

Table 3 Committee 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>TC Chapter Action^{#1}</i>
7134C	Revision to SEMI S8-0218, Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment	Failed and returned to TF for rework and rebalot
7371A	Line-Item Revisions to SEMI S1-0824, Safety Guideline for Equipment Safety Labels	
	Line Item 1 - Addition, to EXCEPTION 2 to ¶7.1	Passed as balloted
	Line Item 2 - Addition to §10.2 of a minimum size criterion for symbols.	Failed and returned to TF for rework and rebalot
	Line Item 3 - Addition, to Table A1-1, of a finger pinch symbol and an entrapment symbol. Symbols will be renumbered, serially, during publication	Passed as balloted
	Line Item 4 - Addition, to Table A1-1, of a shear symbol	Passed as balloted
7411	Line-Item Revision of SEMI S30-0824 Safety Guideline for Use of Energetic Materials in Semiconductor R&D and Manufacturing Processes	
	Line Item 1 - Revision of §15	Failed and returned to TF for rework and rebalot

#1: **Passed** ballot will be submitted to the ISC Audit & Review Subcommittee for procedural review.

Table 5 Ratification Ballot Results

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

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

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details^{#1}</i>
7444	SNARF	EH&S Committee	Reapproval of SEMI S5-1121 - Safety Guideline for Sizing and Identifying Flow Limiting Devices for Gases
7445	SNARF	Fire Protection TF	Line-Item Revision to SEMI S2-0724 - Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Revisions of Fire Protection Portion (§14)
7446	SNARF	Fire Protection TF	Line-Item Revision to SEMI S14-0521 - Safety Guideline for Fire Risk Assessment and Mitigation for Semiconductor Manufacturing Equipment

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

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

Table 8 Authorized Ballots

#	When	TF	Details
7134D	Cycle 3 or 4 of 2026	Ergonomics TF	Revision to SEMI S8-0218, Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment
7371B	Cycle 3 or 4 of 2026	S1 Revision TF	Line-Item Revisions to SEMI S1-0824, Safety Guideline for Equipment Safety Labels
7372	Cycle 3 or 4 of 2026	S23 Global TF	Line-Item Revision to SEMI S23-1021E2, Guide for Conservation of Energy, Utilities and Materials Used by Semiconductor Manufacturing Equipment
7444	Cycle 3 or 4 of 2026	EH&S Committee	Reapproval of SEMI S5-1121 - Safety Guideline for Sizing and Identifying Flow Limiting Devices for Gases
7445	Cycle 3 or 4 of 2026	Fire Protection TF	Line-Item Revision to SEMI S2-0724 - Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Revisions of Fire Protection Portion (§14))
7446	Cycle 3 or 4 of 2026	Fire Protection TF	Line-Item Revision to SEMI S14-0521 - Safety Guideline for Fire Risk Assessment and Mitigation for Semiconductor Manufacturing Equipment

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

#	TF	Title	Expiration Date
7021	S2/S22 Task Force	Line-Items Revisions of S2, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment, and S22, Safety Guideline for the Electrical Design of Semiconductor Manufacturing Equipment	April 2027

Table 10 SNARF(s) Cancelled

#	TF	Title
None		

Table 11 Standard(s) to receive Inactive Status

Standard Designation	Title
None	

Table 12 New Action Items

Item #	Assigned to	Details
Feb12-2026#1	Chris Evanston (Salus)	Set up a telecon with Lauren Crane and Sean Larsen to discuss a strategy on how to move forward with S2/S22 Revision TF.
Feb12-2026#2	Lucian Girlea (Nikon)/Eric Sklar (Safety Guru)	To provide their biographies to Chris Evanston and Kevin Nguyen for presentation and approval as EH&S Co-chairs at the next NARSC meeting.
Feb12-2026#3	Kevin Nguyen (SEMI staff)	To remind regional staff the rules of the SEMI Standards Program require meetings to be scheduled as well as practicable to maximize global participation when scheduling future EH&S TC Chapter meetings.

Table 13 Previous Meeting Action Items

Item #	Assigned to	Details	Status
Oct9-2025#1	Chris Evanston (Salus)	Follow up with Lauren Crane regarding the status of his potential candidacy for the third EH&S NA TC Chapter co-chair position	Closed



1 Welcome, Reminders, and Introductions

1.1 Chris Evanston called the meeting to order at 9:01 AM. The meeting reminders on antitrust, intellectual property, and holding meetings with international attendance were reviewed. Attendees introduced themselves.

1.2 As there has been lack of participation of co-chairs, a concern was raised to have a backup co-chair to run the meeting.

Motion: To appoint Eric Sklar and Lucian Girlea as vice-chairs of NA EH&S TCC.

By / 2nd: By: Lucian Girlea / Nikon Precision Inc.

Second: Lauren Crane / Lam Research

Discussion: None

Vote: 11-0. Motion passed.

2 Review of Previous Meeting Minutes

2.1 The TC Chapter reviewed the minutes of the previous meeting.

Motion: Accept the minutes as written.

By / 2nd: By: Lucian Girlea / Nikon Precision Inc.

Second: Lauren Crane / Lam Research

Discussion: None

Vote: 11-0. Motion passed.

3 Ballot Review

NOTE 1: TC Chapter adjudication of ballots, if any, that are to be forwarded to the Audits & Review (A&R) Subcommittee is detailed in the A&R Subcommittee Forms for procedural review. The A&R forms are available as attachment to these minutes.

3.1 *Doc. 7371A, Line-Item Revisions to SEMI S1-0824, Safety Guideline for Equipment Safety Labels*

3.1.1 Line item [1], [3], and [4] **passed** TC Chapter review as balloted.

3.1.2 Line item [2] **failed** TC Chapter review and was returned to the TF for rework. Refer to attachment below for full details.

Attachment: 7371A A&R

3.2 *Doc. 7411, Line-Item Revision of SEMI S30-0824 Safety Guideline for Use of Energetic Materials in Semiconductor R&D and Manufacturing Processes*

3.2.1 **Motion:** To find negative from Yunshan Su/Leadmicro (LM2) is related and persuasive and return ballot 7411 to the TF for rework and rebalot.

By: Eric Sklar / Safety Guru, LLC

Second: Lauren Crane / Lam Research

Discussion: None

Result: 9-Y 0-N Voting Result: Pass - 100.00%

3.2.2 This document **failed** TC Chapter review and will be returned to the TF for rework

Attachment: 7411_liS30_RespComp_tf26feb03b_tf26feb10c

3.3 *Doc. 7314C, Revision to SEMI S8-0218, Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment*

3.3.1 **Negatives from Tokyo Electron**

3.3.1.1 **Motion:** To find negatives (TELTT 1 & 2) is related and not persuasive.

Reason: because we do not know to what “current state” the voter is referring.

By: Paul Schwab / Ergo Design Guide, LLC

Second: Dishayne Garcia / Intel Corporation

Discussion: None

Result: 10-Y 0-N Voting Result: Pass – 100%



3.3.1.2 **Motion:** To find negative (TELT 3-16) is related and not persuasive.

Reason: because the rationale for each item is provided in Related Information 7 and the background statement.

By: Paul Schwab / Ergo Design Guide, LLC

Second: Eric Sklar / Safety Guru, LLC

Discussion: None

Result: 10-Y 0-N Voting Result: Pass – 100%

3.3.2 Negatives from Hitachi High Tech (HHT)

3.3.2.1 **Motion:** To find negative (HHT-00) is related and not persuasive.

Reason: because changes are appropriate to meet the current needs of the semiconductor industry

By: Paul Schwab / Ergo Design Guide, LLC

Second: Dishayne Garcia / Intel Corporation

Discussion: None

Result: 9-Y 1-N Voting Result: Pass – 90%

3.3.2.2 **Motion:** To find negatives (HHT-01 & 3) are related and not persuasive.

Reason: because this is a misunderstanding of SEMI S10

By: Paul Schwab / Ergo Design Guide, LLC

Second: Dishayne Garcia / Intel Corporation

Discussion: None

Result: 9-Y 0-N Voting Result: Pass – 100%

3.3.2.3 **Motion:** To find negative (HHT-02) is related and not persuasive.

Reason: because the NIOSH Lifting Equation is not a posture assessment tool so the reference to it is irrelevant.

By: Paul Schwab / Ergo Design Guide, LLC

Second: Dishayne Garcia / Intel Corporation

Discussion: None

Result: 9-Y 0-N Voting Result: Pass – 100%

3.3.2.4 **Motion:** To find negative (HHT-05) is related and not persuasive.

Reason: because no technical reason was provided to exempt irregular handles from the assessment. Assessment does not apply to handles and knobs to which one needs to apply less than 13 N (3 lb.) and 0.43 N-m (3.8 lb.-in.).

By: Paul Schwab / Ergo Design Guide, LLC

Second: Eric Sklar / Safety Guru, LLC

Discussion: None

Result: 11-Y 0-N Voting Result: Pass – 100%

3.3.2.5 **Motion:** To find negative (HHT-06) is related and not persuasive.

Reason: because handles are available.

By: Paul Schwab / Ergo Design Guide, LLC

Second: Dishayne Garcia / Intel Corporation

Discussion: None

Result: 11-Y 0-N Voting Result: Pass – 100%

3.3.2.6 **Motion:** To find negative (HHT-10) is related and not persuasive.

Reason: because there is no evidence that alignment aids cannot be installed.

By: Paul Schwab / Ergo Design Guide, LLC

Second: Dishayne Garcia / Intel Corporation

Discussion: None

Result: 10-Y 1-N Voting Result: Pass – 91%

3.3.2.7 **Motion:** To find negative (HHT-11) is related and not persuasive.

Reason: because the intention of this table is to create more uniform risk assessments and the risk assessment using this table is based on numerous factors not a single measurement.

By: Paul Schwab / Ergo Design Guide, LLC

Second: Dishayne Garcia / Intel Corporation

Discussion: None

Result: 13-Y 0-N Voting Result: Pass – 100%

3.3.2.8 **Motion:** To find negative (HHT 4-2) is related and persuasive.

Reason:

By: Lauren Crane / Lam Research

Second: Lucian Girlea / Nikon Precision Inc.

Discussion: None

Result: 10-Y 0-N Voting Result: Pass – 100%

3.3.3 Final Action

3.3.3.1 **Motion:** This Document failed TC Chapter review and was returned to the TF for rework and reballotting

Reason:

By: Eric Sklar / Safety Guru, LLC

Second: Lucian Girlea / Nikon Precision Inc.

Discussion: None

Result: 9-Y 0-N Voting Result: Pass – 100%

3.3.3.2 This document **failed** TC Chapter review and will be returned to the TF for rework and reballotting

Attachment: SEMIS8Ballot7134CNegativeVoteItems26feb12c

4 Subcommittee & Task Force Reports

4.1 S3 Revision TF (Eric Sklar)

- There is a notable lack of interest in continuing this work, but no objections to doing so. The active TF leader has received, indirectly, some of the files from the inactive TF leader. The TF plans to continue working on SEMI S03 rewrite draft.

Attachment: S03(heating)_Report_es26feb12a

4.2 S2 Mechanical TF (Andy Petraszak)

- No Task Force meeting, no report.

4.3 Environmental Performance Rating (EPR) TF (Ben Gross)

- Ben Gross reported that the draft guidance prepared by the EPR TF outlines test condition sets for vacuum pumps and will be incorporated into SEMI S23 by modifying the existing Related Information section pertaining to vacuum pumps. It will not be mandatory for pump suppliers to publish the results. However, it mentioning the existence of EPR testing results in technical spec documents, manuals, brochures etc. and providing EPR results as a separate document is recommended.

4.4 S10 Risk Assessment TF (Eric Sklar)

- Ballot 7169, Revision of SEMI S10-0423E with change of Title to: Safety Guideline For Risk Assessment and Risk Evaluation Processes, passed from the previous meeting. The next revision of SEMI S10 is in SEMI Publications' queue. The TF plans to work further on the agreed changes derived from ASML's response to last S10 ballot.

Attachment: S10_Report_es26feb11b

Attachment: 7169_LateRespComp_tf26jan28a_tf26feb04b_tf26feb11a

4.5 Manufacturing Equipment Safety Subcommittee (MESSC) (Lucian Girlea)

- **Old business**
 - Ferrule Tube Fitting Intermix / Interchange safety concern
 - Swagelok (Josh Herndon) presented a safety concern with potential Ferrule Tube Fitting Intermix / Interchange

- There appears to be a gap in the SEMI safety standards that does not address the intermixing and interchanging of two ferrule tube fitting components with those of other manufacturers. Intermixing and interchanging two ferrule tube fittings components from different manufacturers can lead to performance issues, leaks, and potential safety hazards to people, equipment, and facilities.
- There is no industry wide commercial design standard for tube fittings and components as each manufacturer establishes and follows its own internal design standard, also encompassing important proprietary processes. Thus, an intermixed / interchanged tube fitting is essentially a new design for which the user alone must assume complete responsibility.
 - Discussed offline with the submitter, and we added a proposal for a NOTE (after ¶ 6.8 for S2 MR TF to review:
 - [NOTE 31: Mixing components or parts from different manufacturers can lead to incompatibility issues which can lead to failures. For example, double ferrule tube fitting components \(also referred to as compression fittings\) from different manufacturers can be incompatible and cause leaks when assembled.](#)
 - The item will be addressed by S2 MR TF.
- Korea EHS TC request for S2 RI20 change
 - All the requested changes were reviewed and agreed upon by Korea EHS TC and NA EHS TC with one exception, the removal of R20-4.4.3 as published in S2 currently:
 - In case of hydrogen being generated in the equipment, there is a special South Korean regulation: KGS AH271 Facility, technology inspection of water electrolysis equipment manufacturing.
 - Lucian continued the discussion offline with Korea EHS TC and we agreed not to remove 4.4.3. and only clarify the hydrogen generation is by water electrolysis.
 - R20-4.4.3 In case of hydrogen being generated **by water electrolysis** in the equipment, there is a special South Korean regulation: KGS AH271 Facility, technology inspection of water electrolysis equipment manufacturing.
 - Proposal was reviewed and there's work still left to do.
- **New Business**
 - “Urgent Technical Risk Notification: Radiation Damage and Explosion Risks of Quartz Components in Hydrogen Processes.”
 - Submitted via e-mail by Noriyuki Kodama
 - Invited Kodama-san to join this week's MESSC meeting and support the statements – did not join.
 - Will follow up offline for more details.

Attachment: MESSC SEMI Winter 2026 - Report

4.6 S2 Major Revision TF (Lucian Girlea)

- S2 Major Revision work continues.
 - Excellent TF participation in weekly meetings.
 - Eric Sklar is the TF Technical Editor.
 - Recently, we worked on Section 26 Lasers and Appendix 5.
 - Due to “day job” requirements, we shortened the meetings to 1.5hrs.
- Coordinating work with other EHS TFs (e.g., S8, S10, S13)
 - Items routed to the S2 MR TF for discussion.

- S2 MR TF approach being adopted by other TFs.
- (Still) planning to:
 - Add a “parking lot” section for new items to the end of the draft document.
 - Continue the draft work, address all issues found and the ballot response.
 - Submit SNARF, coordinate with other TFs, work on S2 MR ballot.
- Discussed ways to pass Major Revision of SEMI S02

Attachment: S2 MR TF SEMI Winter 2026 - Report

4.7 S6 Ventilation TF (Eric Sklar)

- Drafting Doc. 7133, Revision of SEMI S6-0618, Environmental, Health, and Safety Guideline for Exhaust Ventilation of Semiconductor Manufacturing Equipment
- Project status
 - Completed technical review of Section 22 & RI 16 of SEMI S02, identifying some items to be integrated into S06 and finding some open technical questions
- Plan to resume weekly telecons to work on revisions after the Cycle 4 ballots are submitted.
 - Current time slot is Wednesdays @ 1200 Pacific Time (no request to change)
 - TF Leader would appreciate greater participation

Attachment: S6_Report_es26feb11a

4.8 S23 Global TF (Lauren Crane)

- Drafting doc. 7135, Revision of SEMI S23-1021e - Guide for Conservation of Energy, Utilities, and Materials Used by Semiconductor Manufacturing Equipment
 - Finish RI-5 (instrumentation guidance) editing for S23 conversion to Test Method
 - Roadmap template review & detailing based on Draft from Kevin Geoghegan
 - Finish Test Method draft and ballot as “new” S23
- Environmental Performance Rating (EPR) TF provided a revision to RI 3.
 - We are aiming to create an S23 line item ballot based on current S23 ASAP (probably for adjudication in 2026 Fall meetings)
- Eric Sklar is the Technical Editor

Attachment: 2026 S23 US Wntr Stds mtg & rpt Crane r1

4.9 S2 Global Seismic TF (Lauren Crane)

- The old (S2-0715) S2 Seismic RI shows a step in the derivation of the horizontal force factor that is not present in the current RI. The step changes the output of the general force equation from 1.32 WP to 0.94WP. 0.94WP is the value in use now (and then) for the minimum anticipated horizontal force acting on the CG of the equipment.
 - The change was approved via the PCR form at the previous meeting and was subsequently approved and published.
- Dormant until issue arises.

4.10 Fire Protection TF (Eric Sklar)

- Old Business



- Criteria for Audible Alarms
 - Submitter discontinued advocacy of making such a change in SEMI S02
 - Adding design and performance criteria: Fire detection, Fire suppression, Exhaust ventilation (i.e., not reducing it in response to fire)
 - SEMI S02 Line-Item Revision proposal as a Delayed Revision
 - Motion: Approve the SNARF for LI Revision of S2 (fire protection)
By: Eric Sklar / Safety Guru, LLC
Second: Lauren Crane / Lam Research
Discussion:
Result: 10-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority
 - Reconciling SEMI S14 with SEMI S10
 - Removing the vestiges of risk assessment process instructions from SEMI S14, deferring to S10
 - Motion: Approve the SNARF for Line-Item Revisions of SEMI S14
By: Eric Sklar / Safety Guru, LLC
Second: Lauren Crane / Lam Research
Discussion:
Result: 11-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority
 - Weekly telecons to discuss the assorted business, including preparation of the 7445 and 7446 ballots.
- Attachment: draftSNARF_S02FP_es26feb11a**
- Attachment: draftSNARF_S14_es26feb11a**
- Attachment: FireProt_Report_es26feb12a**

4.11 *Energetic Materials TF (Eric Sklar)*

- Topics Discussed at Previous TF Meetings
(No new discussion April, July or November 2023; March, July, or November 2024; February, June, October 2025, or Feb 2026):
 - Topics TF believes should be addressed by a training program
 - Improper adoption of S30
 - Cold traps accumulate material, creating a hazard that needs to be addressed.
 - Still no report of an integrated risk assessment having been done.
 - Some S30 related questions have been raised by 1 or 2 device manufacturers.
 - S30 conformance reports
- Since SEMICON West, Balloted doc. 7411, Line Item to S30, Changes to Section 15 (energetic materials containers integral to process equipment)
 - Failed and returned to the TF for further work
- Continue weekly telecons to develop the 7411A ballot.

Attachment: EnergeticMatls_Report_es26feb12a

4.12 *S1 Labels TF (Eric Sklar)*

- Doc 7371A, 4 Line-Item Revisions of SEMI S01:
 - Status:



- It was included in Cycle 1-2026 and
- received adequate responses (60%) to be valid,
- Line 1, 3, 4 passed. Line item 2 failed.
- Details provided in the Response Compilation and A&R forms

Attachment: 7371A_LI_A+Rform_es26feb12b

Attachment: S1_Report_es26feb12a

4.13 S2 Control of Hazardous Energy (CoHE) TF (Eric Sklar)

- Drafting doc. 6942, Line-Item Revision to SEMI S2-0821, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Delayed Revision Related to CoHE/LOTO section of S2)
 - Plan to revise/replace SNARF when TF determines the technical direction it believes it should take.
 - Continue work, as other workload permits.
- New Business
 - Suggest a Line-Item change to SEMI S02 to define “hazardous energy”, after the S23 RI gets balloted.
- Ballot authorization: No request of 12 Feb 2026 NA EHS TCC meeting, as don’t foresee having a ballot ready prior to Spring Meetings.

Attachment: S2_CoHE_Report_es26feb11a

4.14 S12 Decontamination TF (Eric Sklar)

- Continue to work on Doc. 6888A, Revision of SEMI S12-0211e, Environmental, Health and Safety Guideline for Manufacturing Equipment Decontamination
- Resume telecons when ES has draft for TF review or has identified need for other TF members to discuss something, but not before S23 RI goes to ballot.
- Ballot Authorization. Not this time, maybe at the Spring Meeting.

Attachment: S2_CoHE_Report_es26feb11a

4.15 S8 Ergonomics TF (Dishayne Garcia)

- Task Force has been meeting regularly since January of 2022.
- Ballot #7134 was voted on during SEMI Standards Voting Cycle 1, 2024 and failed.
- Ballot #7134A was voted on during SEMI Standards Voting Cycle 1, 2025 and failed.
- Ballot #7134B was voted on during SEMI Standards Voting Cycle 7, 2025 and failed
- Ballot #7134C – was voted on during SEMI standards voting Cycle 1 2026 and failed.
- Task force is resolving technical concerns and holding weekly telecons, developing 7134D ballot. Target is to submit it for voting in 2026 Cycle 4.

Attachment: SEMIS8Ballot7134CNegativeVoteItems26feb12c

4.16 S7 TF (Sean Larsen)

- Did not hold a meeting.

4.17 S2/S22 TF (Chris Evanston)

- Did not hold a meeting. **Action Item 1:** Chris Evanston will discuss strategy on how to move forward with Lauren Crane and Sean Larsen.

4.18 Other Documents of Interest

4.18.1 F47 TF

- Lucian Girlea noted that progress on the F47 revision effort is moving slowly. There is an update on the F47 Workshop being held concurrently with the EHS TF meeting. Previous discussions have addressed waveform considerations and three-phase system issues. Substantial work remains to be completed.

5 Liaison Reports

5.1 ICRC Liaison (Kevin Nguyen)

- No meeting. If you have an interest in being a co-chair for the ICRC, please share your interest as we need a co-chair.

5.2 Other EHS

5.2.1 China TC Formation Group (Kevin Nguyen)

- Background for forming EH&S TC Chapter
 - Necessity of SEMI Standards:
 - Challenges in China:
 - Expectation:
- Proposed Leadership



Name: Mingxing Ren
Title Position: Director of EHS
Company: YMTC
Expert in: Standards, EHS, Facilities



Name: Changlu Chen
Title Position: Director of EHS
Company: CXMT
Expert in: Standards, EHS, Chemicals



Name: Qian Chen
Title Position: GM
Company: SAFESLAB
Expert in: EHS, Standards, Language Translations

- **Current status/timeline**

No.	Date	Meetings
1	March 26, 2025	Organize EHS discussion during SEMICON China, member companies present themselves, experience and <u>current status</u> .
2	Jun 24, 2025	Discussion about the formation process about China EHS TC chapter with HQ (<u>Kevin&Paul</u>)
3	Oct. 06, 2025	Review the CFG materials for NARSC
4	Oct. 22, 2025	Introduce SEMI Standards Regulations to members and petition for EHS CFG leadership.

- Current Topics



- Some terminology in standards;
- Some special cases while using the SEMI standards;
- SEMI Standards Regulations, including SVM.

Attachment: China Liaison Report to NA rev

5.2.2 Taiwan EH&S TC Chapter (Kevin Nguyen)

- TC Chapter Structure Changes
 - Equipment Safety TF was renamed to Facility and Equipment Safety TF.
- Leadership Changes
 - Facility and Equipment Safety TF
 - Previous leader
 - Colin Shen (MXIC)
 - New Leaders
 - Edward His (JDI Consult)
 - Colin Shen (MXIC)
- Authorized Activities
 - Doc. 7415, New Safety Guideline: “Safety Guideline for High-tech Factories”
 - Doc. 7414, New Safety Guideline: “Safety Guideline for Battery Energy Storage Systems (BESS)”

Attachment: EHS Taiwan Liaison Report_20251128_V1

5.2.3 Japan EH&S TC Chapter (Kevin Nguyen)

- Last meeting
 - December 3, 2025
 - RISE GATE NIHONBASHI, Tokyo, Japan/ Official Virtual TC Chapter Meeting (Hybrid)
- Next meeting
 - Wednesday, June 3, 2026
 - SEMI Japan Office, Tokyo, Japan/ OVTCCM (Hybrid)
- Co-chairs
 - Moray Crawford/ Hatsuta Seisakusho
 - GCS voting member
 - EHS Committee representative to the JRSC
 - Supika Mashiro/ Tokyo Electron
 - GCS voting member
 - Akiko Tsukada/ Nuflare Technology
- New Task Force
 - Mobile Maintenance Robot Safety TF
 - Leaders: Supika Mashiro (Tokyo Electron) and Kokai Aoyama (Tokyo Electron)



- Ballot Results
 - Doc. 7349A, Revision to SEMI S13-0113 (Reapproved 0819), Environmental, Health, and Safety Guideline for Documents Provided to the Equipment User for Use with Manufacturing Equipment
 - Passed.
- Authorized Ballot
 - None
- S18 Revision Task Force
 - No specific activities have yet begun due to TF leader's heavy work schedule, but the TF will resume the activities as soon as feasible.
- Global Seismic Protection Task Force
 - No report.
- Japan S2 Major Revision Liaison Task Force (JA-S2 revision LTF)
 - No specific activities have yet begun except that the TF leader has been attending the S2 Major Revision TF meetings, but TF meeting is expected to be held in Japanese when the draft takes shape so that the TF can give any feedback to the primary TF
- S13 Revision Task Force
 - Doc.#7349A passed and approved by A&R. Pending publication.
- S23 Revision Global Task Force
 - George Hoshi (Tokyo Electron), intends to step down his leadership position due to a change in his work responsibilities. Looking for a new TF co-leader from Japan side.

Attachment: EHS JA TC Chapter Liaison Report_Jan 2026_R1

5.2.4 *Korea TC Chapter (Kevin Nguyen)*

- Previous Meeting
 - July 11, 2025
 - SEMI Korea, Seoul
- Next Meeting
 - March 6, 2026
 - SEMI Korea, Seoul
- S2 Major Revision Liaison TF
 - Participating in NA S2 major revision TF weekly meetings
 - Continue following up S2 RI20 Change proposal to MESSC
- Field-Based Safety SC
 - Meeting on Jan 22, 2026 / Hybrid
 - Continue case collecting.
- Regulatory Alignment SC
 - Kick-off on Sept 26, 2025 / Hybrid
 - Discussed SC's objective, operation plan, and timeline.

Attachment: Liaison report_KR_EHS_Feb2026

5.3 RSC (Chris Evanston)

- Chris Evanston attended the NARSC meeting. Business as usual. No newsworthy item to be reported.

5.4 SEMI Staff Report (Kevin Nguyen)

- SEMI upcoming events
 - SEMICON West 2025-2030
 - 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

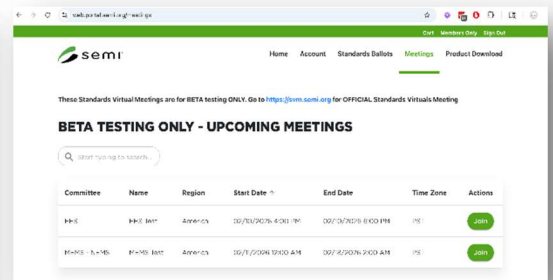
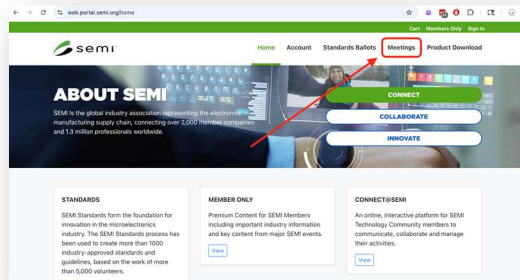
- Upcoming NA 2026 Meetings

NA Standards Winter Meetings	Feb 9-12, 2026 Virtual
NA Spring Meeting (In conjunction with ASMC)	May 11-14, 2026 Hilton Albany, New York
SEMICON West	October 12-15, 2026 San Francisco, California/USA

- ASMC Meeting Registration & Sponsorship
 - Registration
 - Standards Meetings Registration
 - https://bit.ly/Standards_ASMC_2026
 - Hotel Reservation
 - Hotel Link: <https://www.hilton.com/en/attend-my-event/asmc-conference-may-2026/>
 - Call 1(800) Hiltons reservation line and provide the code “4ASMC”
 - Deadline: Tuesday, April 21
 - Sponsorship needed
 - Event Logistics (e.g., Catering, Coffee breaks, AV)
 - Please contact staff for more info.
- 2026 Critical Dates for SEMI Standards Ballots
 - <https://www.semi.org/en/collaborate/standards/ballots>
- Regulations & Procedure Manual
 - Regulations (Feb 20, 2024)
 - <https://www.semi.org/sites/semi.org/files/2024-02/Standards%20Regulations%20February%2020%202024.pdf>
 - Procedure Manual (July 7, 2025)
 - <https://www.semi.org/sites/semi.org/files/2025-07/Procedure%20Manual%20July%2007%202025%20v1.pdf>
- Educational Courses under Development
 - **Intro to Sub-fab Course**
 - **Objective:** Gain a comprehensive understanding of subfab operations, including system components, facility layouts, environmental and sustainability considerations, organizational structure, safety and

maintenance best practices, and incident-response preparedness within the semiconductor manufacturing ecosystem.

- Course Date: TBD, May 2026 (2 sessions, EU & Asia friendly)
- Status: under development
 - Other courses being considered: Equipment Data Acquisition (EDA), SECS/GEM, Seals
 - Please contact staff if interested in developing SEMI Standards courses.
- Introducing the SEMI University Learning Platform
 - 250+ on-demand courses designed specifically for our industry
 - If you have any questions, please reach out to Naresh Naik naik@semi.org
- SEMI IT - China SVM Issue
 - Acquired Consultant to Rebuild SVM on Ballot Platform November 2025
 - User Testing – January 2026
 - Beta Launch Target – February 2026
 - Feedback and Performance Refinement – February to March 2026
 - <https://web.portal.semi.org/meetings>



- SEMI Standards Publications
 - Total SEMI Standards in portfolio: 1,108
 - Includes 374 Inactive Standards

Attachment: Staff_HQ Report Feb 2026 v3

6 Old Business

6.1 TF meeting schedule

6.1.1 Lauren Crane expressed concern that some Task Forces were listed on the meeting schedule but did not hold their meetings. And some did not respond to a draft meeting schedule when a confirmation email was requested. Discussions ensued to establish principles for meeting schedule.

Motion: Adopt these principles for schedule meeting:

1. SEMI needs to publish the draft schedule 8 weeks prior to the Standards meeting week.
2. TF leaders to confirm their meetings at least 4 weeks prior to the Standards meeting week, or they will not be granted a meeting slot.
3. A task force that cancels its meeting in the Standards week less than 1 week prior to that Standards week or does not conduct its scheduled meeting will not be granted a slot in the next Standards week schedule unless it has held at least one 'offline' meeting at least 4 weeks prior to the next Standards week. This rule does not apply if the cancelled meeting was not the first meeting of that task force during a Standards week and it was cancelled because the task force completed its work in previous meeting(s) during that Standards week.



By: Lauren Crane / Lam Research
Second: Eric Sklar / Safety Guru, LLC
Discussion:
Result: 9-Y 0-N Voting Result: Pass - 100.00%.

7 New Business

7.1 TC leadership Change

7.1.1 Additional co-chairs for the EH&S NA TC Chapter are needed.

Motion: Request the RSC to appoint Lucian Girlea and Eric Sklar as additional co-chairs of the EHS NA TC Chapter

By: Lauren Crane / Lam Research
Second: Brandy Miller / Intel Corporation

Discussion:
Result: 10-Y 0-N Voting Result: Pass - 100.00%.

Action Item 2 : Lucian and Eric Sklar will provide their biographies to Chris Evanston and Kevin Nguyen for presentation at the next NARSC meetings.

7.2 Other TC Chapter Meetings Schedule

7.2.1 Eric Sklar noted that other regional EH&S TC Chapter meetings are scheduled at times that are difficult for NA members to attend. He requested that regional staff take NA members’ availability into consideration when scheduling future meetings. **Action Item 3** - Kevin Nguyen will relay this message to the regional staff.

7.3 SNARF Project Period Extension

7.3.1 The following SNARF is reaching 3-year limit.

#	TF	Title
7021	S2/S22 Revision TF	Line Items Revisions of S2 Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment, and S22 Safety Guideline for the Electrical Design of Semiconductor Manufacturing Equipment

Motion: Approve a 1 year extension of the project period

By: Lauren Crane / Lam Research
Second: Lucian Girlea / Nikon Precision Inc

Discussion: None
Result: 8-Y 1-N Voting Result: Pass - 88.89%.

7.4 Upcoming Ballot Authorization

7.4.1 The following ballots are authorized for cycle 3 or 4 of 2026

Motion: Authorize ballot list below for cycle 3 or 4 of 2026

By: Eric Sklar / Safety Guru, LLC
Second: Lauren Crane / Lam Research

Result: 9-Y 0-N Voting Result: Pass - 100.00%.



#	When	TF	Details
7134D	Cycle 3 or 4 of 2026	Ergonomics TF	Revision to SEMI S8-0218, Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment
7371B	Cycle 3 or 4 of 2026	S1 Revision TF	Line-Item Revisions to SEMI S1-0824, Safety Guideline for Equipment Safety Labels
7372	Cycle 3 or 4 of 2026	S23 Global TF	Line-Item Revision to SEMI S23-1021E2, Guide for Conservation of Energy, Utilities and Materials Used by Semiconductor Manufacturing Equipment
7444	Cycle 3 or 4 of 2026	EH&S Committee	Reapproval of SEMI S5-1121 - Safety Guideline for Sizing and Identifying Flow Limiting Devices for Gases
7445	Cycle 3 or 4 of 2026	Fire Protection TF	Line-Item Revision to SEMI S2-0724 - Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Revisions of Fire Protection Portion (§14))
7446	Cycle 3 or 4 of 2026	Fire Protection TF	Line-Item Revision to SEMI S14-0521 - Safety Guideline for Fire Risk Assessment and Mitigation for Semiconductor Manufacturing Equipment

7.5 Teleconferences

- Eric Sklar presented and modified the Google calendar for all NA EHS TF teleconferences, which was accepted by consensus for the period between this meeting and the next NA EHS TCC meeting:
- Calendar is available at:
<https://calendar.google.com/calendar/u/0/embed?src=0dblgh8j8j0im0e8bt4jkbocs4@group.calendar.google.com>

8 Next Meeting and Adjournment

8.1 The next meeting is scheduled for Thursday, May 14, 2026, in conjunction with NA Spring Meetings. Refer to <http://www.semi.org/standards> for the current list of meeting schedules.

8.2 There being no further business, a motion was made to adjourn. Adjournment was at 4:00 PM.

Respectfully submitted by:

Kevin Nguyen,
 SEMI Standards Sr. Operations Manager
 Phone: 408-943-7997
 Email: knguyen@semi.org

Minutes tentatively approved by:

Sean Larsen (KLA)	<Date approved>
Chris Evanston (Salus Engineering International)	<Date approved>

Table 14 Index of Available Attachments#1

<i>Title</i>	<i>Title</i>
7371A A&R	FireProt Report es26feb12a
7411 liS30 RespComp tf26feb03b tf26feb10c	EnergeticMatls Report es26feb12a
SEMIS8Ballot7134CNegativeVoteItems26feb12c	7371A_LI_A+Rform_es26feb12b
S03(heating) Report es26feb12a	S1 Report es26feb12a
S10_Report_es26feb11b	S2 CoHE Report es26feb11a
7169 LateRespComp tf26jan28a tf26feb04b tf26feb11a	S2 CoHE Report es26feb11a
MESSC SEMI Winter 2026 - Report	SEMIS8Ballot7134CNegativeVoteItems26feb12c
S2 MR TF SEMI Winter 2026 - Report	China Liaison Report to NA rev
S6_Report_es26feb11a	EHS Taiwan Liaison Report 20251128 V1
2026 S23 US Wntr Stds mtg & rpt Crane r1	EHS JA TC Chapter Liaison Report Jan 2026 R1
draftSNARF_S02FP_es26feb11a	Liaison report KR EHS Feb2026
draftSNARF_S14_es26feb11a	Staff_HQ Report Feb 2026 v3

#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 <https://downloads.semi.org/standards/minutes.nsf/MinutesByCommittee!OpenView&Start=1&Count=1000&Expand=5#5>. For additional information or to obtain individual attachments, please contact Kevin Nguyen at the contact information above.