



EH&S NA TC Chapter Meeting Summary and Minutes

NA Fall

Thursday, November 7, 2024

9:00 AM – 4:00 PM Pacific

SEMI HQ, Milpitas, CA

TC Chapter Announcements

Next TC Chapter Meeting

Thursday, February 27, 2025 in conjunction with NA Winter Standards Meetings at the SEMI HQ, Milpitas, CA.

Check www.semi.org/en/standards for the latest update.

Table 1 Meeting Attendees

Co-Chairs: Chris Evanston (Salus Engineering International), Sean Larsen (KLA)

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>
KLA	Brick	Clifton	Tokyo Electron	Mashiro	Supika
<i>Brooks Automation</i>	<i>Cerretani</i>	<i>Ben</i>	KLA	McDaid	Raymond
<i>Cymer, ASML</i>	<i>Choi</i>	<i>Joyce</i>	ASML	McKenzie	Wayne
<i>Lam Research</i>	<i>Crane</i>	<i>Lauren</i>	SCREEN	Nishimura	Takayuki
<i>VAD Consulting, LLC</i>	<i>DeGiorgio</i>	<i>Vincent</i>	ASML	Pennings	Wilbert
<i>Salus Engineering</i>	<i>Evanston</i>	<i>Chris</i>	<i>Tokyo Electron</i>	<i>Petraszak</i>	<i>Andrew</i>
<i>Cymer, ASML</i>	<i>Frankfurth</i>	<i>Mark</i>	<i>Texas Instruments</i>	<i>Schwab</i>	<i>Paul</i>
<i>Intel</i>	<i>Garcia</i>	<i>Dishayne</i>	<i>Safety Guru</i>	<i>Sklar</i>	<i>Eric</i>
<i>Nikon Precision</i>	<i>Girlea</i>	<i>Lucian</i>	<i>MURATA MACHINERY</i>	<i>Tominaga</i>	<i>Tadamasa</i>
Nikon	Kelly	Padraig	<i>Veeco</i>	<i>Trout</i>	<i>Steve</i>
<i>Teradyne</i>	<i>Kim</i>	<i>JJ</i>	Tokyo Electron	Tsuru	Mark
<i>III Safety</i>	<i>Ko</i>	<i>Kennis</i>	Tokyo Electron	Wotta	Michael
<i>KLA</i>	<i>Larsen</i>	<i>Sean</i>			

Italic indicates online participant. **Bold** indicates in person participant.

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
Ergonomics Task Force	Paul Schwab (TI)	Paul Schwab (TI) Dishayne Garcia (Intel)

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>
None		

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 Activity

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details^{#1}</i>
None			

Table 8 Authorized Ballots

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
6907	Cycle 9-2024, 1, or 2, 2025	S7 Revision TF	Revision to SEMI S7-0515 Safety Guideline for Evaluating Personnel and Evaluating Company Qualifications
7134A	Cycle 9-2024, 1, or 2, 2025	Ergonomics TF	Revision to SEMI S8-0218, Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment
7169	Cycle 9-2024, 1, or 2, 2025	S10 Revision TF	Revision of SEMI S10-0423 Safety Guideline for Risk Assessment and Risk Evaluation Process

Table 9 Granted a One-Year Extension

<i>#</i>	<i>TF</i>	<i>Title</i>	<i>Expiration Date</i>
6907	S7 Revision TF	Revision to SEMI S7-0515 Safety Guideline for Evaluating Personnel and Evaluating Company Qualifications	Jan 11, 2026

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>	<i>Status</i>
July11-2024#1	Kevin Nguyen (SEMI staff)	To discuss with SEMI IT and create a Connect@SEMI feedback forum for members	Completed
July11-2024#2	Kevin Nguyen (SEMI staff)	To ask SEMI to improve productive members slides	In progress

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.

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: Lauren Crane / Lam Research
 Second: Lucian Girlea / Nikon Precision Inc
Discussion: None
Vote: 13-0. Motion passed.

3 Ballot Review

The type 2 editorial changes on SEMI S1 will be submitted to the ISC Audit & Review Subcommittee for procedural review.

NOTE 1: TC Chapter adjudication of ballots is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R form is available as attachment to these minutes. The attachment file name for each balloted document is provided under each ballot review section below.

3.1 SEMI S1-0824, Safety Guideline for Equipment Safety Labels (Type 2 Editorial Changes)

3.1.1 This Publication Change Request (PCR), adding a NOTE, passed Technical Committee Chapter vote and was sent to ISC Audits & Review (A&R) Subcommittee for procedural review.

Attachment: S1_Type 2 Editorial Change

4 Subcommittee & Task Force Reports

4.1 S3 Revision TF (Andy Petraszak)

- No Task Force meetings since summer.
- Have obtained editable figures of the liquid heating system.
- Next steps
 - TF continues working on doc. 6830, Revision to SEMI S3-1211E (Reapproved 1017) Safety Guideline for Process Liquid Heating Systems.

Attachment: S3 Report Fall 2024

4.2 S2 Mechanical TF (Andy Petraszak)

- Doc. R7158, Line Item Revision to SEMI S2-0821EB, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Subject: Delayed Revisions related to lifting equipment and hinged loads (§§ 5, 18.6, and 18.7))
 - The ratification ballot passed and approved. Published as S2-0724
 - The ratification ballot also received two Disapprove votes from ASM and Intel. The TF discussed the disapproval votes.

Disapprove	ASM	289765 - mark fessler
Do not agree with change to definition of Lifting Device (operation tasks versus maintenance tasks) It does not matter if lifting device is for maintenance or operation still needs to have proper mechanical strength. EXAMPLES: Lifting and lowering of furnace boat/door plate into position. Lifting of FOUPs inside stocker of furnace. (most designs use robot, but some are designed with elevators and weight can be significant). If you want to change testing requirement to 100% load for operational equipment, that could be acceptable, but not with excluding operational lifting devices.		

- Propose no action. Other aspects of S2 Section 18 cover the concern of fitness for operation.
- The document does not prevent someone from applying Section 18.6 to their particular needs.

Disapprove	Intel	478360 - Jeffrey Soulages
Many detailed comments on proposed provisions. Biggest negative comment is the switch from required load testing of all hoists to only a representative sample for design verification. All hoists should be tested at the factory as well as again at the owner site. In addition, tests should be done after every major maintenance on hoist.		

- Note 138 does have a recommendation regarding subsequently produced equipment.
- Propose no change.
- Subsequently produced equipment is not routinely subjected to S2 conformance assessment so proposed change is unlikely to have the desired effect.

Attachment: S2 Mech Report Fall 2024

4.3 Environmental Performance Rating (EPR) TF (Andreas Kloeppe)

Lauren Crane reported on behalf of the EPR TF:

- The EPR draft pump test conditions sets will be integrated into S23 by modifying existing Related Information section on vacuum pumps. When completed, the proposal will be transferred to the SEMI S23 TF.
- Need better participation from pump vendors for broader acceptance:

Attachment: 20241106 Environmental Performance Metric - TF Update Fall meeting Nov7

4.4 S10 Risk Assessment TF (Eric Sklar)

Since the SEMICON West Meetings

- We now have a draft 7169 ballot
- Rationale Statements for Major Changes
 - Generalization from References to “Equipment” to References to the “Object Under Consideration (OUC)”
 - Relocation of the Assessment of Risk of Harm to Property Other Than the OUC to a Related Information Section
 - Separation of the Processes for Risk of Harm to Personnel and the Environment (the ‘EHS Risk’) from the Processes for Risk of Harm to the OUC (the ‘Commercial Risk’)



- Explicit Incorporation of Analysis of Observed Incidents
- Changing the Order of the Steps in Which Risk Assessment, Evaluation, and Mitigation are Performed (previous order will remain as an optional means of conformance with SEMI S10)
- Changing from Qualitative to Quantitative Severity Groups for Things Other Than Personnel and the Environment
- Will continue Task Force work on the SEMI S10 revision ballot.
- Request Authorization for a SEMI S10 revision ballot in 2025 Cycle 1

Attachment: S10_Report_es07nov24a

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

- Request (Lauren Crane - Spring) – should S2 consider addressing Emergency Rescue/ Egress (as in Machinery Regulation)?
 - Update
 - Tried to find a ‘Guide To Application Of The Machinery Regulation’ or similar
 - No such ‘Guide’ found or helpful information found, many ‘interpretations’
 - Discussion
 - Any suggestions or additional steps to take?
 - None in addition to the above.
 - Next step?
 - Continue to monitor for new clarifying information (all)
 - Discuss at next SEMI Standards meetings

Attachment: MESSC SEMI Fall 2024 – Report

4.6 S2 Major Revision TF (Lucian Girlea)

- TF Activity
 - S2 Revision
 - Transitioned the S2 work from S2 0821 to S2 0724 (thanks Eric!)
 - Updating content, addressing conflicts, clarifying statements
 - Excellent TF participation in weekly meetings.
 - Eric Sklar is the TF Technical Editor
 - Coordinating work with other EHS TFs (S1, S10, S8, S14)
 - New items routed to the S2 MR TF
 - S2 MR TF approach being adopted by other TFs
 - Japan Liaison TF (JA-S2 revision LTF).
 - Mashiro-san leads LTF, attends S2 MR TF when schedule permits
- Next Steps
 - Continue the revision work under the same format.
 - Will ask to maintain the same timeslot for the TF meetings.

- Planning to implement the following actions.
 - Send an information ballot out, for work validation and to gather concerns
 - Continue the draft work and address all issues found
 - Submit SNARF, coordinate with other TFs, work on S2 MR ballot
- Discussion:
 - Chris Evanston: When will the S2 Informational Ballot will be issued?
 - Lucian Girlea: As soon as the coordination with other TFs is done, informational ballot does not need the TC Chapter's approval, and it can be submitted at any time.

Attachment: S2 MR SEMI Fall 2024 - Report

4.7 S6 Ventilation TF (Eric Sklar)

- The Task force has been working on Doc 7133 Revision of SEMI S6-0618 - Environmental, Health, and Safety Guideline for Exhaust Ventilation of Semiconductor Manufacturing Equipment, in telecons most weeks
 - Nobody in the TF voiced the opinion that it can have a ballot ready by 17 December 2024, the submission date for the last Cycle early enough to allow adjudication at the Winter Meetings
- Experimental work on leak rates for connection defects (e.g., double, missing, or damaged gaskets, tightening)
 - Discussed ASM's work on testing various deformable-steel-gasket fitting misassemblies
 - ASM will add pressure measurement on the side of the leaky fitting opposite the supply.
 - Discussed relationship of S6 to SEMI S2-0724 Related Information 20, Additional Considerations for Systems Containing Flammable Substances
- TF Plans: Authorization to ballot 7133, Revision of SEMI S6, not before Winter Meetings.

Attachment: S6_Report_es07nov24a

4.8 S23 Global TF (Lauren Crane)

- Near Term History
 - Working on S23 RI 5.
- EPR Task Force Request
 - New RI proposal for test conditions for pump comparison, slowly developing.

Attachment: 2024 S23 US Fall TF mtg & rpt Crane r2

4.9 S2 Seismic Liaison TF (Lauren Crane)

- History
 - A concern was raised in MESSC during the Dec 2021 Standards meetings:
 - 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.



- In the course of discussions, the TF/GTF noted the force equation (now ASCE) has been changed a little and questioned why a force exerted can depend on whether equipment contains HPMs or not – i.e., physics doesn't 'know'.
- Proposal:
 - Add text to RI 4 to the effect of
 - “A factor based on the presumption of the ratio of equipment restraining bolt ultimate strength to yield strength of 1.4 is applied and reduces the calculated Fp from 1.32 to 0.94 for equipment containing HPMs and XXXXX to YYYYY for equipment that does not contain HPMs.”
 - Text explaining that the force formula is a code requirement of how the force which should be used in the consideration of restraint design should be determined, rather than an actual force that will be experienced by the equipment, and the code requirement apparently requires greater forces be designed for when equipment contains HPMs.
- New Work Suggestions for GTF
 - Consider reaching out to Taiwan EHS TCC to join GTF after this RI revision action is complete.
- Committee Actions
 - Propose revision of RI-4 in NA TCC and then ask Mashiro-san to raise the same motion in Japan TCC.
 - Failing that, ask for ballot in Cycle 1 2025 (Dec 17 due date to staff).
 - Fatal flaw Consensus ideally by Dec 10.

Attachment: 2024 S2-Seismic US Fall TF mtg & rpt Crane r2

4.10 Fire Protection TF (Eric Sklar)

- Old Business (Awaiting TF Member Drafts)
 - Adding performance criteria (Such as effectiveness, fire size to be considered) for detection and protection systems.
 - Adding design criteria (such as treatment of pyrophoric materials) for detection and protection systems.
 - Should exhaust ventilation be reduced or stopped if a fire is detected?
- Other Old Business
 - PFAS Impact on Fluoropolymer Plastics Used in Tool Construction
 - Task Force had discussed, in previous meeting, that equipment manufacturers were having difficulty obtaining “fire-safe” polymeric materials of construction.
 - Concerns listed 09 July 2024 by Vinnie DeGiorgio:
 - Availability of FM4910 and other fluoropolymer plastics
 - Increased cost of plastics
 - Changing to less expensive combustible plastics
 - Is this change being recognized in S2/S14 assessments?
 - Review of Bill of Materials
 - Insurance companies make big bets on tool construction materials being compliant with S2/S14.
 - Update on Nov 2024 meeting: Lauren Crane: Some polymers that are not fluoropolymers contain PFAS. Some of that is deliberately added, such as to alter the mechanical properties or to inhibit combustion.



- Reconciling SEMI S14 with SEMI S10
 - Request from Lauren Crane (11 March 2024 e-mail to TF leaders):
 - Fire Protection TF take up an action to create an S14 ballot to bring its terminology in line with S10 – particularly regarding the terms risk, hazard, mishap, and harm.
 - Discussions:
 - Mark Frankfurth: What is the driver for these changes?
 - ◆ Eric Sklar: Mainly to resolve inconsistencies.
 - Sean Larsen: Similar rework of S2 on section of S14?
 - ◆ Eric Sklar: S2 invokes S10 and S14, but it is worth to check.
 - New Business
 - No other changes to S14 proposed for discussion
 - No changes to the fire portions of SEMI S2 proposed for discussion
 - No other new business
 - Plans
 - Telecons to continue discussing reconciling SEMI S14 with SEMI S10
 - Ballot authorization: No request at this time.

Attachment: FireProt_Report_es07nov24a

4.11 Energetic Materials TF (Eric Sklar)

- Previous Business
 - 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
 - Whether F66 and F96 (cited in S30 regarding fittings and connections, but Inactive) still apply (They do.)
 - Reports of some “what’s this going to be?” questions from equipment suppliers to third parties, but no substantive responses. Third parties seem to be waiting to see how the market handles this.
 - Report of some queries from equipment manufacturers to chemical suppliers for information on which to determine whether particular substances are “energetic materials”. No report of the outcome of those queries.
- New Business
 - None
- TF Plans
 - No immediate plans for telecons, but would like a slot assigned on the schedule in case matters requiring TF discussion arise.

Attachment: EnergeticMatls_Report_es07nov24a

4.12 *S1 Labels TF (Eric Sklar)*

- Clarification of Significance of Figure 5 in SEMI S1-0923a
 - The concern was raised, in a e-mail from a TF member to one of the TF leaders, that Figure 5 could be construed to authorize a safety alert symbol in the signal word field that is a white exclamation mark on a black triangle.
 - Sklar's Proposal:
 - Add, immediately below Figure 5, a NOTE proposed by Lauren Crane and edited by Eric Sklar:
 - NOTE x: The black and white signal word panel in Figure 5 is provided as a generic representation of the signal word panels shown in Figure 4.
 - Do this by Publication Change Request (PCR) approval by NA EHS TCC
 - **Motion:** Move to approve the PCR to add note to SEMI S1
By: Eric Sklar / Safety Guru, LLC
Second: Lauren Crane / Lam Research
Discussion:
Result: 14-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority
- Other New Business
 - How large are symbol-only safety labels pseudorequired to be?
- TF Plans & Requests
 - Meet next during Winter Meetings
 - Hold telecons to develop a proposal regarding minimum symbol-only label size to be discussed at the Winter Meetings.

Attachment: S1_Report_es07nov24a

Attachment: PCR_S1note_es07nov24a

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

- Discussion
 - This TF has been inactive
 - The ANSI CoHE committee was scheduled to meet 16&17 July, but no evidence that the ANSI committee is resolving apparent internal conflicts in Z244.1
- Plans & Requests
 - Revise/replace SNARF: Still not ready to update the SNARF
 - Ballot authorization: No request of 07 November 2024 NA EHS TCC meeting, as don't foresee having a ballot ready prior to Winter Meetings
 - Plan to resume telecons early in 2025 in hope of reaching technical consensus

Attachment: S2_CoHE_Report_es07nov24a

4.14 *S12 Decontamination TF (Eric Sklar)*

- Work on SEMI S12 since Fall 2023



- TF Leader does not foresee being available to work on this Document before the 2025Cycle1 submission date, 17 December 2024.
- TF Leader does not believe he is adequately naïve to expect substantial telecon participation in the latter half of December, so is not planning on resuming telecons before January 2025.
- TF Leader would appreciate increased participation or, at least, suggestions as to how to increase participation
- Task Force Plans & Requests
 - Continue work on SEMI S12 rewrite draft.
 - Resume telecons when ES has draft for TF review or has identified need for other TF members to discuss something, but no sooner than January 2025.

Attachment: S12(decon)_Report_es07nov24a

4.15 S8 Ergonomics TF (Paul Schwab)

- The Task Force nominates Dishayne Garcia, CSP, CPE with Intel to be SEMI S8 Task Force coleader
- Vote by North America EHS Technical Committee requested
 - **Motion:** Install Dishayne as a co-leader of S8 TF
By: Lauren Crane / Lam Research
Second: Paul Schwab / Texas Instruments, Inc
Discussion: Lauren Crane asked if the SEMI S8 TFOF is revised indicating a new co-leader. Paul confirmed sending the updated TFOF to Kevin.
Result: 14-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority
- SEMI S8 Major Revision Update
 - Task Force has been meeting regularly since January of 2022 to work on changes to SEMI S8 and balloted a major revision in Cycle 2, 2024 (ballot #7134).
 - Task Force has been meeting weekly since April 5th, 2024 to resolve the negative items from ballot #7134 (3 remaining).
 - Task Force will continue to meet weekly to resolve the remaining negative vote items.
 - Task Force is planning submit a ballot on December 17th for a Cycle 1, 2025 vote.
 - Support documents are located in the SEMI-S8 Task Force document library:
<https://connect.semi.org/communities/community-home?CommunityKey=c1526656-40a4-4245-af86-34d3ecc68624>

Attachment: SEMI-S8TFSummary07nov2024

Attachment: SEMIS8TFOFForm

4.16 S7 TF (Sean Larsen)

- TF is drafting Doc. 6907, Revision to SEMI S7-0515, Safety Guideline for Evaluating Personnel and Evaluating Company Qualifications.
- No teleconferences held lately.
- Ballot is getting cleaned up, will try to issue ballot for coming cycles.
-

4.17 S2/S22 TF (Chris Evanston)

- Did not hold a meeting. The TF is dormant.
- Plans:
 - No ballot is planned. If anyone wants to get involved, please send an email to Chris.

4.18 Other Documents of Interest

4.18.1 F47 TF

- Sean Larsen mentioned F47 is continuing to have discussion on voltage sags on 3 phases vs 1 phase. There are conflicting directions on which way to go. No data was presented for suggesting which ways to proceed.
- Lucian Girlea said the TF's proposal is still being discussed and it is not clear on what direction. It appears the intent is to request OEM for signature testing. It is not clear what part of testing will be normative.
- Sean Larsen has a strong concern is the lack of data to support.
- Sean Larsen asked if anyone is aware of any companies making 3 phases testing equipment.
- Lucian Girlea said there are couple of companies claiming to make such equipment.
- Supika Mashiro also said the TF discussed on adding requirements for 3 phases dip. However, there are strong opposition from equipment manufacturers. She has a concern that adding new requirements will only delay production schedule since only limited testing laboratories are able to perform F47 testing. Changing F47 will add more burden.
- Wilbert Penning also said the TF wants to change the test method, so compliance can be shown by providing realistic data on how a system behaves, similarly to what IEC does.
- Lucian Girlea said he anticipates lot of negatives will be submitted if the ballot for F47 revision is issued.

4.18.2 Cybersecurity Documents

- Sean Larsen mentioned SEMI just published cybersecurity E191 and E191.1 standards.
 - SEMI E191 - Specification for Computing Device Cybersecurity Status Reporting
 - SEMI E191.1 - Specification for SECS-II Protocol for Computing Device Cybersecurity Status Reporting

5 Liaison Reports

5.1 ICRC Liaison (Clifton Brick)

- Plastics
- TSCA
- Cyber Resilience
 - New EU Cyber resilience act has not yet been published in the OJ
 - Has requirements that begin as early as November 2025
 - Requirements are in addition to those in the Machinery Regulation
 - NFPA 79 has included a reference to cyber security, however the wording suggests permission to address it, rather than a requirement
- Regulatory Dashboard
 - EU Ecodesign for Sustainable Products Regulation (ESPR) released.



- Stockholm Convention
- CBAM Carbon Border Adjustment Mechanism
- TSCA PFAS Reporting
- Request for Co-chair(s)
 - If you have an interest in being a co-chair of the ICRC, please share your interest as we need a co-chair.

Attachment: ICRC update fall 2024

5.2 Other EHS

5.2.1 Taiwan TC Chapter is idle. No further business reported.

5.2.2 Japan EH&S TC Chapter (Supika Mashiro)

- Last meeting
 - Wednesday, September 11, 2024
 - SEMI Japan Office, Tokyo, Japan/ OVTCCM (Hybrid)
- Next meeting
 - SEMICON Japan, December 2024.
- Ballot Results
 - 7243, Reapproval of SEMI S13-0113 (Reapproved 0819), Environmental, Health And Safety Guideline For documents Provided To The Equipment User For Use With Manufacturing Equipment
 - Failed
 - 7244, Reapproval of SEMI S17-0319, Safety Guideline For Unmanned Transport Vehicle (UTV) System
 - Failed

5.2.3 Korea TC Chapter Formation Group (Kevin Nguyen)

- Conducting a chapter-by-chapter review to deepen understanding.
- Recently began discussion on potential standardization topics.
- Translation Review SG
 - Focused on reviewing terminology in the Korean 1018 version
 - Expected to start review of the 0724 version in December 2024.

Attachment: Liaison report_Korea_EHS_Nov2024

5.3 RSC report (Kevin Nguyen)

- Latest SEMI Regulations & Procedure Manual are up on the web.
- Request from I&C TC Chapter to change the Regs and PM allowing simultaneous major revisions to multiple standards on a single ballot.

5.4 SEMI Staff Report (Kevin Nguyen)



- SEMI upcoming events
 - 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
 - Global Standards Summit 2024 Innovating Tomorrow: Standards for Future Factories
 - Inaugural SEMI Event @ SEMICON Japan 2024
 - Thursday, December 12 | 10:30 AM to 4:30 PM
 - Tokyo Big Sight, Conference Tower, Room 606
 - Session Topics
 - Smart Manufacturing for Future Factories
 - Packaging Architectures & Materials
 - Environmental Sustainability
 - Upcoming NA 2025 Meetings

NA Standards Winter Meetings	Feb 24-27, 2025 SEMI HQ, Milpitas, California/USA
NA Standards Summer Meetings	June 2-6, 2025 <i>[Tentative]</i> SEMI HQ, Milpitas, California/USA
SEMICON West	Oct 6-9, 2025 Phoenix Convention Center Phoenix, Arizona/USA

- 2025 Critical Dates for SEMI Standards Ballots
 - <https://www.semi.org/en/collaborate/standards/ballots>
- The Use of Connect@SEMI for TF Management and Document Development Depository
 - Refer to PM § 6.4.5 Operation of TFs
 - By Feb 2025, all Standards Task Forces shall use Connect@SEMI to host documents that are currently in development.
 - Each Standards Task Force will have its own Community Page on Connect@SEMI.
 - All program members may log in at:
 - <https://connect.semi.org>
 - Enter their username and password (same as program membership log-in)
 - Contact staff if questions.
- Training materials are available at:
 - <https://www.semi.org/standards>
 - Under Standards Developer Resources → Collaboration Tools (scroll to the bottom)
- SEMIViews 4.0 – Available now.
 - New or improved features include:



- Upgraded user interface
- Improved company user administration functions
- Dynamic landing page, including feeds for new and revised Standards, upcoming meetings & events, and a reference center
- Enhanced search functionality and navigation panel
- New SEMI Volumes Library
- User defined shortcuts via Collections, Favorites, and now, Bookmarks
- SEMI Standards Publications
 - Total SEMI Standards in portfolio: 1,092
 - Includes 349 Inactive Standards

Attachment: Staff Report November 2024 v4

6 Old Business

6.1 None

7 New Business

7.1 Leadership Change

7.1.1 Sean Larsen reported that the NA TC Chapter now has 2 co-chairs. Two current co-chairs are representing for an equipment supplier and a third-party evaluator. A third co-chair is needed, someone representing chip maker is desired, but not required.

7.2 Upcoming Ballot Authorization

7.2.1 The following ballots are authorized for upcoming cycles.

Motion: Authorize (S10, S7, S8) for cycle 9-2024, 1 or 2 of 2025

By: Eric Sklar / Safety Guru, LLC

Second: Lauren Crane / Lam Research.

Result: 12-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority

#	When	TF	Details
6907	Cycle 9, 1 or 2 2025	S7 Revision TF	Revision to SEMI S7-0515, Safety Guideline for Evaluating Personnel and Evaluating Company Qualifications
7134	Cycle 9, 1 or 2 2025	Ergonomics TF	Revision to SEMI S8-0218, Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment
7169	Cycle 9, 1 or 2 2025	S10 Revision TF	Revision of SEMI S10-0423, Safety Guideline for Risk Assessment and Risk Evaluation Process

7.3 Teleconferences

- Eric Sklar presented and modified the Google calendar for all NA EH&S TF teleconferences, which was accepted by consensus for the period between this meeting and the NA EHS TCC meeting during Winter:
- 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, February 27, 2025, in conjunction with NA Winter Meetings at SEMI HQ, Milpitas, CA. 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 1:32 PM.

Respectfully submitted by:

Kevin Nguyen,
SEMI Standards 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>
S1_Type 2 Editorial Changes	EnergeticMatls_Report_es07nov24a
S3 Report Fall 2024	S1_Report_es07nov24a
S2 Mech Report Fall 2024	PCR_S1note_es07nov24a
20241106 Environmental Performance Metric - TF Update Fall meeting Nov7	S2_CoHE_Report_es07nov24a
S10_Report_es07nov24a	S12(decon)_Report_es07nov24a
MESSC SEMI Fall 2024 – Report	SEMI-S8TFSummary07nov2024
S2 MR SEMI Fall 2024 - Report	SEMIS8TFOFForm
S6_Report_es07nov24a	ICRC update fall 2024
2024 S23 US Fall TF mtg & rpt Crane r2	Liaison report_Korea_EHS_Nov2024
2024 S2-Seismic US Fall TF mtg & rpt Crane r2	Staff Report November 2024 v4
FireProt_Report_es07nov24a	

#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.