TC Chapter Announcements

Next TC Chapter Meeting

Table 1 Meeting Attendees

**Co-Chairs:** Chris Evanston (Salus Engineering International), Sean Larsen (Lam Research), Bert Planting (ASML)

**SEMI Staff:** Kevin Nguyen (SEMI HQ), Junko Collins (SEMI Japan), Dean Chang (SEMI Taiwan)

<table>
<thead>
<tr>
<th>Company</th>
<th>Last</th>
<th>First</th>
<th>Company</th>
<th>Last</th>
<th>First</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salus Engineering</td>
<td>Austin</td>
<td>Lindy</td>
<td>Tokyo Electron</td>
<td>Mashiro</td>
<td>Supika</td>
</tr>
<tr>
<td>Vichara Partners</td>
<td>Baliga</td>
<td>Sanjay</td>
<td>KLA</td>
<td>McDaid</td>
<td>Raymond</td>
</tr>
<tr>
<td>Cymer (ASML)</td>
<td>Choi</td>
<td>Joyce</td>
<td>Safe Techno Limited</td>
<td>Nageshwar</td>
<td>G.</td>
</tr>
<tr>
<td>Axcelis</td>
<td>Clifton</td>
<td>Brick</td>
<td>TEL FSI</td>
<td>Petraszak</td>
<td>Andrew</td>
</tr>
<tr>
<td>ASM</td>
<td>Collins</td>
<td>Tara</td>
<td>ASML</td>
<td>Planting</td>
<td>Bert</td>
</tr>
<tr>
<td>Tokyo Electron</td>
<td>Crane</td>
<td>Lauren</td>
<td>KLA</td>
<td>Rivera</td>
<td>Manny</td>
</tr>
<tr>
<td>Salus Engineering</td>
<td>Evanston</td>
<td>Chris</td>
<td>Nuflare</td>
<td>Sakura</td>
<td>Hidetoshi</td>
</tr>
<tr>
<td>ASM</td>
<td>Fessler</td>
<td>Mark</td>
<td>Safety Guru</td>
<td>Sklar</td>
<td>Eric</td>
</tr>
<tr>
<td>Nikon Precision</td>
<td>Girlea</td>
<td>Lucian</td>
<td>MURATA MACHINERY</td>
<td>Tominaga</td>
<td>Tadamasa</td>
</tr>
<tr>
<td>TUV Rheinland</td>
<td>Goh</td>
<td>Justin</td>
<td>Tokyo Electron</td>
<td>Tsuru</td>
<td>Mark</td>
</tr>
<tr>
<td>Nikon Precision</td>
<td>Greenberg</td>
<td>Cliff</td>
<td>Salus Engineering</td>
<td>Visty</td>
<td>John</td>
</tr>
<tr>
<td>Applied Materials</td>
<td>Karl</td>
<td>Ed</td>
<td>KFPI</td>
<td>Wyman</td>
<td>Matthew</td>
</tr>
<tr>
<td>Lam Research</td>
<td>Larsen</td>
<td>Sean</td>
<td>Cymer (ASML)</td>
<td>Yakimow</td>
<td>Byron</td>
</tr>
</tbody>
</table>

*Italic* indicates remote participant

Table 2 Leadership Changes

<table>
<thead>
<tr>
<th>WG/TF/SC/TC Name</th>
<th>Previous Leader</th>
<th>New Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3 Revision Task Force</td>
<td></td>
<td>Andrew Petraszak (Tokyo Electron)</td>
</tr>
</tbody>
</table>

Table 3 Committee Structure Changes

<table>
<thead>
<tr>
<th>Previous WG/TF/SC Name</th>
<th>New WG/TF/SC Name or Status Change</th>
</tr>
</thead>
</table>
### Table 4 Ballot Results

<table>
<thead>
<tr>
<th>Document #</th>
<th>Document Title</th>
<th>Committee Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>6049B</td>
<td>Line-Item Revision to SEMI S10-0815E, Safety Guideline for Risk Assessment and Risk Evaluation Process</td>
<td>Passed with editorial changes</td>
</tr>
<tr>
<td></td>
<td>Line Item 1: Changes to Appendix 1: Changes pertaining to Severity Groups: People</td>
<td>Passed with editorial changes</td>
</tr>
<tr>
<td></td>
<td>Line Item 2: Changes to Appendix 1: Changes pertaining to Severity Groups: Property</td>
<td>Failed and returned to TF for rework</td>
</tr>
<tr>
<td></td>
<td>Line Item 3: Changes to Appendix 1: Changes pertaining to Severity Groups: Equipment/Facility</td>
<td>Failed and returned to TF for rework</td>
</tr>
<tr>
<td></td>
<td>Line Item 4: Changes to Appendix 1: Changes pertaining to Likelihood Groups</td>
<td>Passed as balloted</td>
</tr>
<tr>
<td>5969A</td>
<td>Line Item Revisions to SEMI S2-0818E, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (pertaining to Fire)</td>
<td>Passed</td>
</tr>
<tr>
<td></td>
<td>Line Item 1: Addition of criteria to determine which method of assessing fire risk is to be used</td>
<td>Passed with editorial changes</td>
</tr>
<tr>
<td></td>
<td>Line Item 2: Addition of use of the S10 ranking tables in place of the S14 ranking tables</td>
<td>Passed as balloted</td>
</tr>
<tr>
<td>SEMI S2-0818E</td>
<td>Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment</td>
<td>Passed</td>
</tr>
<tr>
<td></td>
<td>(Unballoted editorial changes for handling trademark owners)</td>
<td>Passed</td>
</tr>
<tr>
<td>SEMI S2-0818E</td>
<td>Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment</td>
<td>Passed</td>
</tr>
<tr>
<td></td>
<td>(Unballoted editorial changes for miscellaneous)</td>
<td>Passed</td>
</tr>
</tbody>
</table>

#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 abandonment.

### Table 5 Activities Approved by the GCS between meetings of the TC Chapter

<table>
<thead>
<tr>
<th>#</th>
<th>Type</th>
<th>SC/TF/WG</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table 6 Authorized Activities

<table>
<thead>
<tr>
<th>#</th>
<th>Type</th>
<th>SC/TF/WG</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>6551</td>
<td>SNARF</td>
<td>S2 Mechanical Design TF</td>
<td>Line Item Revision to SEMI S2 Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Section 18 Mechanical Design)</td>
</tr>
</tbody>
</table>

#1 SNARFs and TFOFs are available for review on the SEMI web site at: [http://downloads.semi.org/web/wstdsbal.nsf/tfofsnarf](http://downloads.semi.org/web/wstdsbal.nsf/tfofsnarf)

### Table 7 Authorized Ballots

<table>
<thead>
<tr>
<th>#</th>
<th>When</th>
<th>TF</th>
<th>Details</th>
</tr>
</thead>
</table>
**Table 8 SNARF(s) Granted a One-Year Extension**

<table>
<thead>
<tr>
<th>#</th>
<th>TF</th>
<th>Title</th>
<th>Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4975</td>
<td>S6 Revision Task Force</td>
<td>Revision to SEMI S6, EHS Guideline for Exhaust Ventilation of Semiconductor Manufacturing Equipment (Line item revisions for addressing gas detectors and other concerns)</td>
<td>July 12, 2020</td>
</tr>
</tbody>
</table>

**Table 9 SNARF(s) Abolished**

<table>
<thead>
<tr>
<th>#</th>
<th>TF</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Table 10 Standard(s) to receive Inactive Status**

<table>
<thead>
<tr>
<th>Standard Designation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Table 11 New Action Items**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>July11-2019#1</td>
<td>Kevin Nguyen (SEMI Staff)</td>
<td>To ask the Regs SC to come to EHS committee for interpretation on Trademarks procedure</td>
</tr>
</tbody>
</table>

**Table 12 Previous Meeting Action Items**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>April4-2019#1</td>
<td>Kevin Nguyen (SEMI Staff)</td>
<td>To forward contact of Taiwan Seismic TF leader to Lauren Crane</td>
<td>Completed</td>
</tr>
</tbody>
</table>

**1 Welcome, Reminders, and Introductions**

1.1 Bert Planting called the meeting to order at 9:00 AM. The meeting reminders on antitrust issues, intellectual property issues 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: Sean Larsen/Lucian Girlea  
Discussion: None  
Vote: 14-0. Motion passed  

3 Ballot Review  
Passed ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.  
Failed ballots and line items were returned to the originating task forces for re-work and re-balloting.  

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.  

3.1 SEMI S2-0818E, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment  
- Editorial changes for trademarks resolution  
  - Approved  
- Editorial changes for miscellaneous  
  - Approved  
- Refer attachments below for details of these editorial changes.  

Attachment: SEMI S2 Editorial Changes Trademarks Handling  
Attachment: SEMI S2 Editorial Changes Miscellaneous  

3.2 Doc. 6049B Line-Item Revision to SEMI S10-0815E, Safety Guideline for Risk Assessment and Risk Evaluation Process  
- Line Item 1 - Changes to Appendix 1: Changes pertaining to Severity Groups: People  
  - Passed with editorial changes  
- Line Item 2 – Changes to Appendix 1: Changes pertaining to Severity Groups: Property  
  - Failed and returned to TF for rework  
- Line Item 3 - Changes to Appendix 1: Changes pertaining to Severity Groups: Equipment/Facility  
  - Failed and returned to TF for rework  
- Line Item 4 - Changes to Appendix 1: Changes pertaining to Likelihood Groups  
  - Passed as balloted  
- Refer attachment below for details.  

Attachment: 6049B A&R  
Attachment: 6049B_CompiledResponses_es11jul19a  

3.3 Doc. 5969A, Line Item Revisions to SEMI S2-0818E, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (pertaining to Fire)  
- Line Item 1 - Addition of criteria to determine which method of assessing fire risk is to be used  
  - Passed with editorial changes  
- Line Item 2 - Addition of use of the S10 ranking tables in place of the S14 ranking tables  
  - Passed as balloted  

Attachment: 5969A A&R
4 Liaison Reports

4.1 Japan TC Chapter

4.1.1 Supika Mashiro reported. Of note:

- Last Meeting
  - April 19 at the Japan Spring 2019 Meetings
  - SEMI Japan office, Tokyo
- Next Meeting
  - August 29 at the Japan Summer 2019 Meetings
  - SEMI Japan office, Tokyo
- Global Seismic Protection TF
  - Approved
- STEP/SEMI S2 will be held on November 1, 2019 at SEMI Japan office

Attachment: 201906_EHS Japan_forNA_v1.1

4.2 Taiwan TC Chapter

4.2.1 Kevin Nguyen reported. Of note:

- Last Meeting
  - March 27, 2019 at the SEMI Standards Taiwan Spring 2019 Meetings
  - SEMI Taiwan Office, Zhubei City, Hsinchu County, Taiwan
- Next Meeting
  - October 16, 2019 at the SEMI Standards Taiwan Autumn 2019 Meetings
  - SEMI Taiwan Office, Zhubei City, Hsinchu County, Taiwan
- Leadership / Leadership Changes
  - Fang-Ming Hsu (TSMC) Retired from TSMC(10/23).
  - Note: Looking for new TC co-chair from TSMC.
- 2019 SEMICON Taiwan Sustainable Manufacturing and Circular Economy Forum Schedule will be held at Taipei in conjunction with SEMICON Taiwan 2019
  - Date: September 18th, 2019
  - Theme - Energy Conservation and Risk Management for Sustainable Manufacturing

Attachment: 20190628_TW_EHS TC Liaison Report v1

4.3 ICRC Liaison

4.3.1 Lauren Crane reported on the following topics.

- Korean situation for high pressure safety
- Discussion on the dashboard. Hot topic includes EPA requirements, RoHS, Machinery Directive, PFOA, and COHE.
4.4 RSC / Committee Leadership Report

4.4.1 Sean Larsen reported. Of note.

- There are no new changes to the Regulations and Procedure Manual since the last meeting
  - Sean Larsen expressed appreciation to Eric Sklar for his help on handling the SEMI S2 trademarks issue. There are other standards will need to be addressed including S6, S14, and S22.
- A group of EHS personnel have been meeting in Korea to discuss concern and find better ways to address Korean regulators. It was reported that in Korea, KSIA, is a recognized body for Standards, not SEMI. For further information about these meetings, please contact Natalie Shim at eshim@semi.org.
- Virtual Meeting
  - Work is still in progress. If there is any feedback, please send to SEMI.
  - Discussions:
    - Lauren Crane asked what would it take for SEMI IT to officially announce that it is ready. According to Sean Larsen, the process is cumbersome. And it may require two SEMI staff, one is to run the software, and the other would be dedicating in taking minutes.
    - Lauren also asked if the Regulations and Procedure Manual have been changed to allow virtual meeting. Per Sean, the verbiage is already in place, but it is contingent to SEMI IT.
    - Eric Sklar also chimed in that virtual meeting may not be effective since other regions may have to conduct their meetings in English if there are non-native speakers attending.

Attachment: Co-Chairs Report July 2019

5 Subcommittee & Task Force Reports

5.1 Manufacturing Equipment Safety Subcommittee (MESSC)

5.1.1 Lucian Girlea reported. Of note:

- Proposal to Delete SEMI S2, Section 18.7.5 since this is non-value added.
  - Section 18.7.5 of SEMI S2 requires each hinged load assembly supporting and moving a hinged load be load tested, with test certificates accompanying each unit upon delivery, stored for 10 years from the date of shipment.
  - The TFOF and SNARF for line item revision to S2 were presented.

Motion: To approve S2 Mechanical Design TFOF
By / 2nd: Ed Karl/Lucian Girlea
Discussion: None
Vote: 12-0. Motion passed

Motion: To approve SNARF for line item revision to S2 Mechanical Design
By / 2nd: Ed Karl/Lucian Girlea
Discussion: None
Vote: 11-0. Motion passed

- Proposal to fix SEMI S2 TM references
  - Done
- Proposal to remove SEMI S2 ‘Equipment Damage’ wording in S2 6.5
o Equipment Damage is not EHS, unless damage negatively impacts personnel or environment (property).

o This issue will be taken by the SEMI S10 TF. SNARF will be submitted.

Attachment: MESSC West 2019 Comments

5.2 S10 Revision TF

5.2.1 Bert Planting reported the progress on ballot for S10. Two line items passed, and two failed. Ballot will be reissued for review at the next meeting.

Attachment: SEMI S10 report committee meeting West 2019

5.3 S2 Chemical Exposure TF

5.3.1 John Visty reported. Of note,

- The TF discussed O₂ deficient atmospheres (ODA)
- The TF plans to finalize material and issue for cycle 7 ballot.

Attachment: 2019 West Chem Expos TF_rpt out

5.4 S6 Revision TF

5.4.1 John Visty reported. Of note:

- New IEC 62990-1 – Published June 2019
- Reviewed standard criteria & application to establish minimum criteria
- Plan – Hold a gas detector supplier work group conf call by August / meeting

Attachment: 2019 West S6 rpt out

5.5 Energetic Materials (S30) TF

5.5.1 Eric Sklar reported. Of note:

- S30 is published. No immediate revision is needed. The TF plans to remain active to monitor implementation of S30. Education of S30 is needed and should be done at SESHIA conference rather than at SEMI. Interested individual should refer to SESHIA website for more information on schedule and topic.

Attachment: EnergeticMatlsTF_es11jul19a

5.6 S3 Revision TF

5.6.1 Eric Sklar reported. Of note:

- Current topics list, in the order in which TF intends to address them.
  1. Heating of chemicals obtained as solids, liquids, gases, or combinations thereof
  2. Chemicals obtained as liquids that contact substrates as liquids, gases, or combinations thereof
  3. Chemicals used directly for processing and for such purposes as in situ chamber cleaning and seasoning
4. Heating to maintain the temperature of piping and other components to manage the risks resulting from condensation (upstream and downstream of process chamber) (including feedback to address loss of heating, such as in effluent lines)

5. Corrosion, including by novel process chemicals

6. Chemical reactions used for, or incidentally resulting in, heating

7. Use of heaters for energetic materials

8. Other improvements that might be found appropriate for EHS Committee consideration.

- Andy Petraszak (TEL) is interested being the third TF leader.

**Motion:** To confirm Andy as the leader  
**By / 2nd:** Eric Sklar/Lauren Crane  
**Discussion:** None  
**Vote:** 9-0. Motion passed

**Attachment:** S3TFmtg_11jul19a

5.7 *Control of Hazardous Energy (CoHE) TF*

5.7.1 Mark Fessler reported. Of note:

- At the end of May, our CoHE TF agreed to put future TF meetings on hold until ICRC WG feedback was completed. (OSHA RFI due August 18th, 2019)
- Yesterday’s TF Meetings focused discussion on Risk Assessment flowchart, and which content should be included in S2 report (see draft flowchart to right in attachment below)
- SEMI CoHE TF Meetings plan to resume after ICRC WG is finished, as there are still differences of opinion on drafted content. (even between the co-chairs)

**Attachment:** CoHE TF - July 11 2019

5.8 *S8 (Ergonomics) TF*

5.8.1 No meeting, no report.

5.9 *S23 Global TF*

5.9.1 Lauren Crane reported. Of note,

- Discussion on current draft
  - Figure 1 and figure 2
  - Carlo’s hydrogen purity information
  - Excel Workbook
- Substantial discussion on concern for ECF for Hydrogen and Natural Gas would be included in S23. If included, it was perceived as end users will expect equipment suppliers to provide modeling for various processes. Some also said processed chemicals will need to be measured and calculated, which is a burden on supplier. Lauren Crane pointed out that S2 is already has a criteria for the manufacturer to provide the user for mass balance, including idled, average, and peak operation conditions. To get a sense of committee’s opinion, a straw poll was conducted.
  - S23 Revision TF to consider ECF for Hydrogen?  
    - Yes – 5
• No – 1
  ○ S23 TF to consider ECF for Natural Gas?
    • Yes – 4
    • No - 1

  • Lauren Crane feels there is commercial reason to block ECF for Hydrogen and Natural Gas, but there is not enough evidence for technical reason.

**Attachment:** 2019 WEST S23 Mtg Notes + Report Crane r1

5.10 *S2 Korean High Pressure Gas Safety TF*

5.10.1 Sean Larsen reported. Of note,

  • The TF is continuing working on ballot 6354A, Line Item Revision to SEMI S2, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Addition of related information)

5.11 *PFOA Specification TF*

5.11.1 Sean Larsen reported. Of note,

  • The TF has a meeting, but there was no report given. The TF is still drafting ballot doc. 6439, New Standard: Specification for PFOA Restriction in Fluoromaterials.

5.12 *Other Interest Documents*

5.12.1 Sean Larsen reported Power Harmonic TF under NA Facilities was working on doc. 6037, New Standard, Specification for Power Grid Harmonics Compatibility. Alex McEachern is retired, the effort is abandoned.

5.12.2 Sean Larsen mentioned Mark Stephens at EPRI has formed a Voltage Sag Immunity Task Force under the Facilities NA TC Chapter. Their goal is to review requirement in F47 and make change to three-phase voltage sags.

6 *SEMI Staff Report*

6.1.1 Kevin Nguyen (SEMI) gave the SEMI Staff Report. Of note:

  • Next meetings
    ○ November 4-7, 2019
    ○ SEMI HQ in Milpitas, California
  • 2019 Critical Dates for SEMI Standards Ballots
  • SEMI Standards Publications
    ○ Total SEMI Standards in portfolio: 1003
      ▪ Includes 268 Inactive Standards
  • New Forms, Regulations & Procedure Manual
    ○ Regulations (Feb 28, 2019)
      ▪ Latest version clarifies procedures applicable for Copyrighted Items and trademarks
      ▪ What is a Trademark?
        • Trademarks are brands that owners consider to be valuable intellectual property.
        • It can be a company name, an acronym, a graphical symbol, or a product name, even a software product. Products that are trademarked services are usually called service marks.
Anyone can claim to trademark something, not already in use by others, to identify and distinguish it from others

**What are the Rules for Trademarks Clarified?**

- As part of SEMI policy to avoid any appearance of restraint of trade, the Regulations allow incorporation of trademarks in Standards Documents only under specific conditions.
- Hence, incorporation of a trademark in a Standards Document without complying with those conditions is a violation of the Regulations.
- It was brought to the attention of the ISC Regulations Subcommittee that a number of SEMI Standards Documents include trademarks or even require use of trademarked products without indicating that they were trademarks, who owned them, or the existence of a record of TC Chapter approval of that use.

**Responsibilities of the TC Chapter**

- See Regulations §§ 1.5.11 & 16.4 for official requirements
- Examples
  - Example 1 for a product trademarked name
    - Not acknowledged: Kleenex
    - Not allowed: Kimberly-Clark Kleenex®
    - Allowed: Kleenex®
    - Preferred: Kleenex® brand tissue (straight quote from box)
    - Kleenex trademark is owned by Kimberly-Clark Corporation.
  - Example 2 for trademarked SDO name in subheadings of applicable sections
    - ASTM® Standards
- Lauren Crane and Chris Evanston are not entirely clear on these trademark handling procedures, these presentations appear to contradict with the Regs. They both suggested Regs SC to come to the EHS committee and provide clearer explanation.
- Action Item 1- Kevin to invite the Regs SC to EHS.
  - Procedure Manual (Feb 28, 2019)
  - SNARF (Feb 2019)

**Attachment:** Staff Report July 2019_v2 EHS

### 7 Old Business

#### 7.1 SNARF Extension (older than 3 years)

<table>
<thead>
<tr>
<th>#</th>
<th>TF</th>
<th>Title</th>
<th>Expired Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4975</td>
<td>S6 Revision Task Force</td>
<td>Revision to SEMI S6, EHS Guideline for Exhaust Ventilation of Semiconductor Manufacturing Equipment (Line item revisions for addressing gas detectors and other concerns)</td>
<td>July 12, 2019</td>
</tr>
</tbody>
</table>

**Motion:** To extend one year for the project.

*By / 2nd: John Visty/Andrew Petraszak*
Discussion: None  
Vote: 10/0. Motion passed

8 New Business

8.1 Upcoming Ballot Authorizations

8.1.1 The following ballots are authorized for the next meeting.

<table>
<thead>
<tr>
<th>#</th>
<th>When</th>
<th>TF</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>6354A</td>
<td>Cycle 6 or 7 2019</td>
<td>S2 Korean High Pressure Gas Safety TF</td>
<td>Line Item Revision to SEMI S2, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment · Addition of related information</td>
</tr>
<tr>
<td>6049B</td>
<td>Cycle 6 or 7 2019</td>
<td>S10 Revision TF</td>
<td>Line Item Revision to SEMI S10-0815E, Safety Guideline for Risk Assessment and Risk Evaluation Process</td>
</tr>
<tr>
<td>6171</td>
<td>Cycle 6 or 7 2019</td>
<td>Chemical Exposure TF</td>
<td>Line Item Revision to SEMI S2, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment · Chemical exposure</td>
</tr>
<tr>
<td>6439</td>
<td>Cycle 6 or 7 2019</td>
<td>Restriction of Materials TF</td>
<td>New Standard: Specification for PFOA Restriction in Fluoromaterials</td>
</tr>
<tr>
<td>6551</td>
<td>Cycle 6 or 7 2019</td>
<td>S2 Mechanical Design Task Force</td>
<td>Line Item Revision to SEMI S2 Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Section 18 Mechanical Design)</td>
</tr>
</tbody>
</table>

Motion: To authorize above documents for ballots for cycle 6 or 7 of 2019.
By / 2nd: Cliff Greenberg/Lucian Girlea
Discussion: None
Vote: 8/0. Motion passed

8.2 Fall Scheduling

8.2.1 The following is the draft schedule for West.

Attachment: Fall2019_Rev2

9 Next Meeting and Adjournment

9.1 The next meeting is scheduled for Thursday, November 7, 2019 at SEMI HQ, Milpitas, CA. See http://www.semi.org/en/events for the current list of meeting schedules.

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

Respectfully submitted by:

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

Minutes tentatively approved by:
Table 13 Index of Available Attachments

<table>
<thead>
<tr>
<th>Title</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMI S2 Editorial Changes Trademarks Handling</td>
<td>SEMI S10 report committee meeting West 2019</td>
</tr>
<tr>
<td>SEMI S2 Editorial Changes Miscellaneous</td>
<td>2019 West Chem Expos TF_rpt out</td>
</tr>
<tr>
<td>6049B A&amp;R</td>
<td>2019 West S6 rpt out</td>
</tr>
<tr>
<td>6049B_CompiledResponses_es11jul19a</td>
<td>EnergeticMatlsTF_es11jul19a</td>
</tr>
<tr>
<td>5969A A&amp;R</td>
<td>S3TFmtg_11jul19a</td>
</tr>
<tr>
<td>5969A_CompiledResponses_es11jul19a</td>
<td>CoHE TF - July 11 2019</td>
</tr>
<tr>
<td>201906_EHS Japan_forNA_v1.1</td>
<td>2019 WEST S23 Mtg Notes + Report Crane r1</td>
</tr>
<tr>
<td>20190628_TW_EHS TC Liaison Report v1</td>
<td>Staff Report July 2019_v2 EHS</td>
</tr>
<tr>
<td>Co-Chairs Report July 2019</td>
<td>Fall2019_Rev2</td>
</tr>
<tr>
<td>MESSC West 2019 Comments</td>
<td></td>
</tr>
</tbody>
</table>

#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.