



Physical Interfaces & Carriers North America TC Chapter

Meeting Summary and Minutes

NA Standards Spring 2016 Meetings
 April 6, 2016, 09:00 – 12:00 Pacific Time
 SEMI Headquarters in San Jose, California

TC Chapter Announcements

Next TC Chapter Meeting

SEMICON West 2016 Meetings

Wednesday, July 13, 2016, 09:00 – 12:00 Pacific Time

SF Marriott Marquis in San Francisco, California

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Matt Fuller (Entegris), Stefan Radloff (Intel)

SEMI Staff: Laura Nguyen, Paul Trio

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
<i>Acteon</i>	<i>Komatsu</i>	<i>Shoji</i>	Hitachi Kokusai Electric	Mitsuhiro	Matsuda
Alan Crockett	Crockett	Alan	Intel	Jung	Melvin
<i>Brooks Automation</i>	<i>Babbs</i>	<i>Daniel</i>	Intel	Quinn	Tom
Daifuku	Yamagata	Kenji	SUMCO Corporation	Nakai	Tetsuya
Daewon SPIC	Lie	Jonathan	TEL	Mashiro	Supika
Entegris	Fuller	Matthew	U.A. Associates	Hartsough	Larry
Global 450mm Consortium	Christal	Lorn	SEMI	Nguyen	Laura
Global Foundries	Rothe	Jan	SEMI	Trio	Paul

Table 2 Leadership Changes

<i>Group</i>	<i>Previous Leader</i>	<i>New Leader</i>
EUV Reticle Handling Task Force		This task force has been sunset.
Int'l Process Module PIC TF(IPPI TF)		This task force has been sunset.

Table 3 Ballot Results

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.

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
5950	Reapproval of SEMI E1-1110: Specification for Open Plastic and Metal Wafer Carriers	Passed , superclean
5951	Reapproval of SEMI E100-1104 (Reapproved 0710): Specification for a Reticle SMIF Pod (RSP) Used to Transport and Store 6 Inch or 230 mm Reticles	Failed , sent back to TF
5952	Reapproval of SEMI E117-1104 (Reapproved 0710): Specification for Reticle Load Port	Passed , with editorial changes



Table 3 Ballot Results

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Document #	Document Title	Committee Action
5953	Reapproval of SEMI E131-0304 (Reapproved 0310): Specification for the Physical Interface of an Integrated Measurement Module(IMM) into 300mm Tools Using Bolts-M	Failed , sent back to TF
5954	Reapproval of SEMI E15.1-0305 (Reapproved 1110): Specification for 300 mm Tool Load Port	Failed , sent back to TF
5955	Line Item Revision of SEMI E63-1104 (Reapproved 1110): Mechanical Specification for 300 mm Box Opener/Loader to Tool Standard (BOLTS-M) Interface with Title Change to: Specification for 300 mm Box Opener	
Line Item 1	Correct title and concomitant text of SEMI E63	Passed , with editorial changes
5956	Line Item Revision of SEMI E57-0600 (Reapproved 1110): Mechanical Specification for Kinematic Couplings Used to Align and Support 300 mm Wafer Carriers with Title Change to: Specification for Kinematic Couplings Used to Align and Support 300 mm Wafer Carriers	
Line Item 1	Correct the title of SEMI E57	Passed , with editorial changes
5965	Reapproval of SEMI E15-0698E2 (Reapproved 0310): Specification for Tool Load Port	Passed , superclean
5817	Revision to SEMI E72 0600 (Reapproved 0305): Specification and Guide for 300 mm Equipment Footprint, Height, and Weight with title change to: Specification and Guide for Equipment Footprint, Height, and Weight	Failed , sent back to TF for rework

Table 4 Authorized Activities

#	Type	SC/TF/WG	Details
5941	SNARF	Int'l Recticle SMIF Pod and Load Port Interoperability TF	Revisions to E111-1213, Add new Related Information Documenting Purge Locations for Reticle SMIF Pod Purging and E19-1213, E112-1213, and E117-1104 (Reapproved 0710), Add references to the new E111 Related Information section, to go out for Cycle 5, 2016

NOTE 1: SNARFs and TFOFs are available for review on the SEMI Web site at: <http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF>

Table 5 Authorized Ballots

#	When	SC/TF/WG	Details
5941	Cycle 5, 2016	Int'l Recticle SMIF Pod and Load Port Interoperability TF	Revisions to E111-1213, Add new Related Information Documenting Purge Locations for Reticle SMIF Pod Purging and E19-1213, E112-1213, and E117-1104 (Reapproved 0710), Add references to the new E111 Related Information section

Table 6 New Action Items

Item #	Assigned to	Details
2016April#01	Matt Fuller	Follow up with Komatsu-san to send out an invitation to committee and task force members to join in on this discussion.
2016April#02	Stefan Radloff	To draft a proposal to the RSC to clarify the definition of "Inactive" in the Regulations for West.

Table 7 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>	<i>Status</i>
2015Nov#01	Laura Nguyen	Contact EUV TF if it is okay for the TC Chapter to sunset this task force. Send email to Long He and John Zimmerman.	Complete. Ask the TC Chapter to sunset in Spring meetings 2016.
2015Nov#02	Stefan Radloff, Laura Nguyen	Follow-up with Chie Yanagisawa on English translation of Assembly and Packaging slides discussing backend alignment issues with introducing backside fiducial mark on notchless wafers.	Complete. Chie sent out via email 10/20/15.
2015Nov#03	Laura Nguyen	Verify with Shannon that E84 activity will not go into inactive.	Complete.
2015Nov#04	Laura Nguyen	Contact Jan Rothe when he would like to hold the SMIF meeting for the NA Standards Spring meeting.	Complete.
2015Nov#05	Jan Rothe	Follow up on next steps for Doc 5869A	On-going. Went out for Cycle 1-16, adjudication will be in Japan 4/14/16.

1 Welcome, Reminders, and Introductions

Matthew Fuller called the meeting to order at 09:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: SEMI Standards Required Meeting Elements

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: To accept the previous meeting minutes as written.

By / 2nd: Alan Crockett (Alan Crockett) / Tom Quinn (Intel)

Discussion: None.

Vote: 6-0 in favor. Motion passed.

Attachment: NA PIC Minutes 2015 Fall Final 20160224

3 Liaison Reports

3.1 PIC Europe TC Chapter

Laura Nguyen (SEMI) reported for the PIC Europe TC Chapter. The key items were as follows:

- Leadership: A. Honold (InReCon), F. Petzold (Trustsec)
- Committee Organization *{see attachment}*
- Meeting Information
 - Last Meeting: Oct 7, 2015 – SEMICON Europa in Dresden, Germany
 - Next Meeting: Oct 25-27, 2016 - SEMICON Europa in Grenoble, France
- International Reticle SMIF Pod & Loadport Interoperability TF
 - Leader: Jan Rothe (GlobalFoundries)
 - Drafting doc. 5941, Revisions to E111-1213, Add new Related Information Documenting Purge Locations for Reticle SMIF Pod Purging and E19-1213, E112-1213, and E117-1104 (Reapproved 0710), Add references to the new E111 Related Information section
 - Document is in Google site. Feedback being sought.
- Revision of E48 TF



- Effort to renew SEMI E48-1101 (Reapproved 1107), Specification for SMIF Indexer Volume Requirement will not be pursued by the Europe
- E48 will be allowed to go inactive unless renewed by other TC Chapters
- Staff Contact: James Amano (jmano@semi.org), Kevin Nguyen (knguyen@semi.org)

Attachment: Europe PIC Liaison Report March 2016

3.2 PIC Japan TC Chapter

Laura Nguyen (SEMI) reported for the PIC Japan TC Chapter. The key items were as follows:

- Leadership
 - Committee Co-chairs: Tsuyoshi Nagashima (Miraial), Tsutomu Okabe (TDK), Kenji Yamagata (DAIFUKU)
 - Technical Architect: Shoji Komatsu (Acteon)
- Current Structure of Japan TC Chapter *{See attachment}*
- Meeting Information
 - Last meeting – Japan Winter 2015 Meetings in conjunction with SEMICON Japan 2015
 - Wednesday, December 16, 2015 at Tokyo Big Sight Conference Tower, Tokyo
 - Next meeting – Japan Spring 2016 Meetings
 - Thursday, April 14, 2016 at SEMI Japan office, Tokyo
- Doc Review Summary – Japan Standards Summer 2015 Meeting: Cycle 5
 - Doc 5524A, Revisions to SEMI E156-0710, “Mechanical Specification for 450 mm AMHS Stocker to Transport Interface”, with Title Change to “Specification for Mechanical Interfaces Between 450 mm AMHS Stocker and Transport Equipment” – passed, superclean
 - Doc 5869, Line Item Revision to SEMI E84-1109, “Specification for Enhanced Carrier Handoff Parallel I/O Interface” – failed and return to task force for rework
- Approved SNARFs – Japan Standards Winter 2015 Meeting
 - Doc 5974, New Auxiliary Information: 450mm PIC Interoperability
 - Doc 5869, Line Item Revision to SEMI E84-1109, “Specification for Enhanced Carrier Handoff Parallel I/O Interface”
 - Revised SNARF, revision to the scope from “Add the description into section R1-2.2” to “Revise section R1-2.1 and R1-2.2”
- Ballots to be reviewed at Japan Spring 2016 Standards Meetings
 - Doc 5869A, Line Item Revision to SEMI E84-1109: “Specification For Enhanced Carrier Handoff Parallel I/O Interface”
- Task Force Updates
- 450 mm AMHS Task Force
 - Ballot #5524A, Revisions to SEMI E156-0710, “MECHANICAL SPECIFICATION FOR 450 mm AMHS STOCKER TO TRANSPORT INTERFACE”, with title change to “SPECIFICATION FOR MECHANICAL INTERFACES BETWEEN 450 mm AMHS STOCKER AND TRANSPORT EQUIPMENT”
 - Published as SEMI E156-1115 in November 2015
 - The task force was discharged at the Japan TC Chapter meeting on December 16 in conjunction with SEMICON Japan 2015
- Fiducial Mark Interoperability TF
 - The latest TF meeting on Nov. 18, 2015
 - T7issues
 - SNARF 5890



Delete all position specifications from SEMI T7 because position specifications are also described on SEMI M1 and other related Silicon Standard.

- Document 5890
 - Submitting to 2015 Cycle 7, passed with editorial changes at JA TC Chapter meeting of Traceability TC on Dec. 18, 2015, and passed A&R. – Waiting for publication.
- Others
 - Assembly and Packaging: Discussing backend alignment issues with introducing fiducial mark wafer.
 - TF leaders to start discussion about disbanding this TF if the TF does not have further activity.
- Global PIC Standards Maintenance Task Force (JA Side)
 - #5869, Line Item Revision to SEMI E84-1109, “SPECIFICATION FOR ENHANCED CARRIER HANDOFF PARALLEL I/O INTERFACE”
 - Ballot submission was approved at the NA PIC TC Chapter meeting on April 1, 2015. As SEMI E84 was originated from Japan region, however, the decision should have been made by JA PIC TC Chapter with additional GCS Agreement per P.M. 2.7.1.2.3.1. Accordingly, the Japan PIC TC Chapter made a decision to authorize this ballot submission at the Japan PIC TC Chapter meeting on April 15, 2015.
 - Failed at the Japan TC Chapter meeting on July 30, 2015
 - #5869A
 - Ballot was submitted for Cycle 1-2016
 - Rejects and comments to be reviewed at the TF meeting during NA Standards Spring 2016 Meetings
 - Ballot to be adjudicated and reviewed at Japan TC Chapter meeting on April 14, 2016
 - International 450 mm Physical Interfaces & Carriers Task Force (JA Side)
 - Issues related to a door closing have been raised from G450C.
 - ITG started the tests
 - To move KC chapter in SEMI E158 and E159 to SEMI E154 (Lord Port)
 - Waiting the next major revision for discussion, re-vote and volunteers.
 - SNARF #5974: New Auxiliary Information: “450mm PIC INTEROPERABILITY”
 - Approved at the Japan TC Chapter meeting on December 16 in conjunction with 2015
- International Process Module Physical Interface (IPPI) TF (JA Side)
 - The document worked by this task force was published.
 - The disbandment of IPPI TF was approved, with pending the EU TC Chapter’s agreement, at the Japan TC Chapter meeting on April 15, 2015.
- **Japan PIC TC Chapter requests NA PIC TC Chapter to make necessary decision at the NA spring meeting.**
- **To complete the disbandment of IPPI TF, it is necessary to NA PIC TC Chapter to make similar decision.**
- Staff Contact: Chie Yanagisawa (cyanagisawa@semi.org)

Attachment: Liaison Report JA Spring2016 (PIC)

3.3 SEMI Staff Report

Laura Nguyen (SEMI) gave the SEMI Staff Report. The key items were as follows:



- SEMI Global 2016 Calendar of Events
 - SEMICON Southeast Asia (April 26-28, Penang, Malaysia)
 - SEMICON West (July 12-14, 2016, San Francisco, California)
 - SEMICON Taiwan (September 7-9, Taipei, Taiwan)
 - SEMICON Europa (October 25-27, Grenoble, France)
 - SEMICON Japan (December 14-16, Tokyo, Japan)
- Upcoming North America Standards Meetings
 - SEMICON West 2016 (July 11-14, 2016, San Francisco, California)
 - NA Standards Fall 2016 Meetings (November 7-10, 2016, SEMI HQ in San Jose, California)
 - NA Standards Spring 2016 Meetings (April 3-6 [tentative], SEMI HQ in San Jose, California)
- Letter Ballot Critical Dates for 2016
 - West 2016 adjudication
 - Cycle 4: ballot submission due: April 15/Voting Period: April 26 – May 26
 - Cycle 5: ballot submission due: May 10/Voting Period: May 24 – June 23
 - Fall 2016 adjudication
 - Cycle 6: ballot submission due: July 22/Voting Period: August 1 – September 1
 - Cycle 7: ballot submission due: August 17/Voting Period: August 31 – September 30

- Standards Publications Report

<i>Cycle</i>	<i>New</i>	<i>Revised</i>	<i>Reapproved</i>	<i>Withdrawn</i>
December 2015	0	3	2	0
January 2016	6	7	0	0
February 2016	4	4	3	0
March 2016	2	21	4	0

- Total in portfolio – 962 (includes 131 Inactive Standards)
- New Standards *{list of new Standards can be found on Slide 11-13 of the Staff Report, see the attachments of these minutes}*
- Inactive Standards *{list of inactive Standards can be found on Slide 14-15 of the Staff Report, see the attachments of these minutes}*
- New Requirements/Process Reminders for TC Chapter Meetings
 - Standards Document Development Project Period
 - Project period shall not exceed three years (*Regulations* ¶ 8.3.2).
 - SNARF approval to TC Chapter approval
 - If Document development activity is found to be continuing, but cannot completed within the project period, TC Chapter may grant one-year extension at a time, as many times as necessary.
 - SNARF Review Period
 - A submitted SNARF for a new, or for a major revision to an existing, Standard or Safety Guideline is made available to all members of a TC Chapter’s parent global technical committee for two weeks for their review and comment. (*Regulations* ¶ 8.2.1).
 - If the SNARF is submitted at a TC Chapter meeting, the TC Chapter can review and approve, but the SNARF will need to be distributed for two weeks and then approved via GCS.
 - New SNARF & TFOF forms *{embedded in Staff Report, see the attachments of these minutes}*



- Procedures for Correcting Nonconforming Titles of Published Standards Document (*Procedure Manual Appendix 4*)
 - Some Standards qualify for a special procedure where a line-item change can be used to correct the titles. Otherwise, the corrective action will likely require a major revision.
 - PIC Nonconforming Titles *{See attachment for full list}*
 - PIC Standards needing Five-Year Review *{See attachment for full list}*
 - SNARF 3 Year Status *{None for NA PIC TC Chapter}*
- Staff Contact: Laura Nguyen (languyen@semi.org)

Attachment: SEMI Standards Staff Report

4 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 2: 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.

4.1 Document # 5950, Reapproval of SEMI E1-1110: Specification for Open Plastic and Metal Wafer Carriers

- The ballot passed as balloted, superclean. See attachment for ballot adjudication.

Attachment: 5950ProceduralReview

4.2 Document 5951 - Reapproval of SEMI E100-1104 (Reapproved 0710): Specification for a Reticle SMIF Pod (RSP) Used to Transport and Store 6 Inch or 230 mm Reticles

- The ballot found reject SG02 persuasive and the ballot failed. See attachment for ballot responses.

4.3 Document 5952 - Reapproval of SEMI E117-1104 (Reapproved 0710): Specification for Reticle Load Port

- The ballot passed with editorial changes. See attachment for ballot adjudication.

Attachment: 5952ProceduralReviewRev1

4.4 Document 5953 - Reapproval of SEMI E131-0304 (Reapproved 0310): Specification for the Physical Interface of an Integrated Measurement Module (IMM) into 300 mm Tools Using Bolts-M

- The ballot found reject SG02 to be technically persuasive and the ballot failed. See attachment for ballot responses.

4.5 Document 5954 - Reapproval of SEMI E15.1-0305 (Reapproved 1110): Specification for 300 mm Tool Load Port

- The ballot found reject SG04 to be technically persuasive and the ballot failed. See attachment for ballot responses.

4.6 Document 5955 - Line Item Revision of SEMI E63-1104 (Reapproved 1110): Mechanical Specification for 300 mm Box Opener/Loader to Tool Standard (BOLTS-M) Interface with Title Change to: Specification for 300 mm Box Opener

4.6.1 Line Item #: Correct title and concomitant text of SEMI E63

- The ballot passed as balloted. The committee found the negative to not be related because the title of the line item is not subject to be voted upon. See attachment for ballot adjudication.

Attachment: 5955ProceduralReview



4.7 Document 5956 - Line Item Revision of SEMI E57-0600 (Reapproved 1110): Mechanical Specification for Kinematic Couplings Used to Align and Support 300 mm Wafer Carriers with Title Change to: Specification for Kinematic Couplings Used to Align and Support 300 mm Wafer Carriers

4.7.1 Line Item #: Correct the title of SEMI E57

- The ballot passed as balloted. The committee found the negative to not be related because the title of the line item is not subject to be voted upon. See attachment for ballot adjudication.

Attachment: 5956ProceduralReview

4.8 Document 5965 - Reapproval of SEMI E15-0698E2 (Reapproved 0310): Specification for Tool Load Port

- The ballot passed as balloted. Superclean. See attachment for ballot adjudication.

Attachment: 5965ProceduralReview

4.9 Document 5817, Revision to SEMI E72 0600 (Reapproved 0305): Specification and Guide for 300 mm Equipment Footprint, Height, and Weight with title change to: Specification and Guide for Equipment Footprint, Height, and Weight

- The ballot found reject SG03 to be technically persuasive and the ballot failed. See attachment for ballot responses.

Attachment: Cycle 9-15 - Ballot Results - PIC - motion 20160406

Attachment: Cycle 2-16 - Ballot Results - 5817 PIC - motion 20160406

5 Subcommittee and Task Force Reports

5.1 *International Reticle SMIF Pod and Load Port Task Force*

Jan Rothe reported for the International Reticle SMIF Pod and Load Port Task Force. The key items were as follows:

- Leadership: Jan Rothe, GLOBALFOUNDRIES
- Members: 34 (18 companies: 2 IC makers, 5 pod suppliers, 4 load port suppliers, 5 equipment suppliers, 2 consultants)
- Current Work Program
 - Meetings: TF held 2 Telecons since December + Face to face at NA Spring Meetings
 - TF completed documenting known purge port locations for RSPs and devices with purge capability (LPs, Stocker Nests, ZFGs)
 - Draft ballot available, TF went through 3 reviews & asks for approval to submit ballot.
 - Link to E111 Related Information Draft *{see attachement}*
 - TF approved motion to submit full letter ballot in cycle 5.

Motion: To approve submission of document #5941 for a line item revision to add Related Information to SEMI E111 and references to the new RI in E112, E117, E19.

By / 2nd: Jan Rothe (Global Foundries) / Alan Crockett (Alan Crockett)

Discussion: None.

Vote: 7-0 in favor. Motion passed.

Attachment: Reticle Pod LP Interoperability TF Report 2015-04-05 (motion 20160406)



5.2 Global PIC Maintenance Task Force

Larry Hartsough reported for the Global PIC Maintenance Task Force. This task force had ballots to review and can be found in Section 4 of these minutes. The key items reported were as follows:

- Activity since NA Fall Meeting
 - Cycle 9 2015 Letter Ballots for reapproval of six standards
 - 5950 & 5965 Super clean
 - 5951-5954 with rejects
 - Cycle 9 2015 Line-Item Letter Ballots for title correction of two standards
 - 5955 & 5956 had rejects
 - Two Letter Ballots issued for Doc. 5817, Major revision to SEMI E72
 - Rejects for recent ballot to be reviewed today, with SMTF recommendation to Fail & refer to SMTF for more work
 - Letter Ballot issued for Doc. 5869, Related information to SEMI E84
 - Rejects for recent ballot to be reviewed at JA PIC (April 14), with SMTF recommendation to Fail & refer to SMTF for more work
- 5 years review *{See attachment for more list of 5 year reviews}*
- E72 Revision
 - Document Number: 5817
 - Alan Crockett make a ballot proposal near feature. (maybe spring meeting)
- E84 Revision
 - Document Number: 5869
 - Ask the Jan-san plan.

Attachment: SMTF report 4 April 16

5.3 Int'l 450 mm PIC Task Force (IPIC TF) / Int'l Process Module PIC Task Force (IPPI TF)

5.3.1 Int'l 450 mm PIC Task Force (IPIC TF)

Matt Fuller reported for the International 450 mm PIC Task Force in place of Shoji Komatsu. The key item discussed was on the IPIC 450AUX. The task force looked at this idea of adding to or recreating a 450 auxiliary document with some of the known issues and possible solutions or guidelines that have been found at G450C. The task force plans to have something developed before SEMICON West with guidance from Lorn Christal (G450C).

Action Item: 2016April#01, Matt to email and follow up with Komatsu-san to send out an invitation to committee members and task force members to join in on this discussion.

5.3.2 Int'l Process Module PIC Task Force (IPPI TF)

The International Process Module Physical Interface (IPPI) TF (JA Side) disbanded their task force once activity was completed. The disbandment of Japan IPPI TF was approved, with pending the EU TC Chapter's agreement, at the Japan TC Chapter meeting on April 15, 2015. The Japan PIC TC Chapter requests NA PIC TC Chapter to make necessary decision at the NA spring meeting to complete the disbandment of NA IPPI TF.

Motion: To agree with Japan to sunset the IPPI TF.

By / 2nd: Larry Hartsough (UA Associates) / Alan Crockett (Alan Crockett)

Discussion: None.

Vote: 6-0 in favor. Motion passed.

5.4 NA 450 mm Shipping Box Task Force

Tom Quinn reported for the NA 450mm Shipping Box Task Force. There was no NA 450mm Shipping Box Task Force meeting. This task force meets internationally with Japan. Tom reported the last remaining activity that was being handled by the task force was the 450 Silicon Shipping Systems Standard. Since the committee was not able to come to a consensus on some of the content in the document, the Japan Silicon committee has voted to withdraw the SNARF for that activity. There is no other current activity at this time.

5.5 EUV Reticle Handling Task Force

Laura contacted Long He and John Zimmerman, leaders of the EUV TF, if it is okay for the TC Chapter to sunset this task force. The task force leaders confirmed the approval to sunset the EUV TF.

Motion: To sunset EUV Reticle Handling TF.
By / 2nd: Kenji Yamagata (Daifuku) / Alan Crockett (Alan Crockett)
Discussion: None.
Vote: 7-0 in favor. Motion passed.

5.6 450 mm Automated Test Die Prep

Stefan Radloff reported that the NA 450 ATDP TF is inactive. Most of the activities are being driven from Japan task force, under the Assembly and Packaging Committee. Until the activities become parallel, the NA side will remain inactive.

6 Old Business

Previous action items has been updated and closed. There is no further old business.

7 New Business

7.1 Discussion within the Committee

7.1.1 Reviewing rejects of documents that were balloted as reapprovals:

Supika Mashiro raised a question – Do we need to make this document current? The easiest way is to make this document inactive –which is a suggestion, responds Larry Hartsough.

According to Supika, the definition of “inactive” is if the responsible TC Chapter don’t want to actively maintain the document anymore, you can move the document to inactive status.

The committee discusses the process and meaning of inactive status under the SEMI *Regulations* {Section 4.2.19}.

Stefan Radloff raised the question on the clarity of the definition “inactive.” He is concerned of the issue that may rise when the customers who are using the document do not understand SEMI’s terminology of the document, and perceive the document to be no longer valid.

Stefan suggested if there is a possibility to expand the definition of “inactive” and add it to the top of the Standard, or change the term overall. Possibly, for it to read, this is still a valid standard and many end users will require compliance, it just means that the task force has chosen not to actively update the Standard anymore.

Supika is part of the Regulations committee and suggests submitting a proposal to expand the definition.

Action Item: 2016April#02, Stefan to draft a proposal to the RSC to clarify the definition of "Inactive" in the Regulations.



7.2 IPPI TF and EUV TF

This topic was addressed in the task force reports of Section 5. There is no other new business.

8 Next Meeting and Adjournment

The next meeting is scheduled for Wednesday, July 13, 2016 at the SEMICON West 2016 Standards Meetings in San Francisco, California. See <http://www.semi.org/en/events> for the current list of meeting schedules.

The tentative schedule(s) are provided below:

Tuesday, July 12 (Tentative)

- International Reticle SMIF Pod and Load Port TF (10:00 AM to 12:00 Noon)
- Global PIC Maintenance TF (1:00 PM to 2:30 PM)
- Int'l 450 mm PIC TF (2:30 PM to 5:00 PM)

Wednesday, July 13 (Tentative)

- NA PIC TC Chapter (9:00 AM to 12:00 Noon)

Having no further business, a motion was made to adjourn. Adjournment was at 12:00.

Respectfully submitted by:

Laura Nguyen
 International Standards Coordinator
 SEMI North America
 Phone: +1.408.942.7019
 Email: lnguyen@semi.org

Minutes approved by:

Matt Fuller (Entegris), Co-chair	June 20, 2016
Stefan Radloff (Intel), Co-chair	<Date approved>

Table 8 Index of Available Attachments#1

Title	Title
SEMI Standards Required Meeting Elements	5950ProceduralReview
NA PIC Minutes 2015 Fall Final 20160224	5952 ProceduralReviewRev1
Europe PIC Liaison Report March 2016	5955ProceduralReview
Liaison Report JA Spring2016 (PIC)	5956ProceduralReview
SEMI Standards Staff Report	5965ProceduralReview
Cycle 2-16 - Ballot Results - 5817 PIC - motion 20160406	Reticle Pod LP Interoperability TF Report 2015-04-05 (motion 20160406)
Cycle 9-15 - Ballot Results - PIC - motion 20160406	SMTF report 4 April 16

#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 Laura Nguyen at the contact information above.