



SEMI® INTERNATIONAL STANDARDS



North America Standards

Staff Report Spring 2015

SEMI Global 2015 Calendar of Events {1/2}

Event Name		Event Details
	SEMICON Southeast Asia	April 22-24 Penang, Malaysia
	Advanced Semiconductor Manufacturing Conference	May 3-6 Saratoga Springs, New York
	Intersolar Europe	June 10-12 Munich, Germany
	SEMICON Russia	June 17-18 Moscow
	SEMICON West	July 14-16 San Francisco, California

SEMI Global 2015 Calendar of Events {2/2}

Event Name		Event Details
	SEMICON Taiwan	September 2-4 Taipei
	European MEMS Summit	September 17-18 Milan, Italy
	Strategic Materials Conference (SMC)	September 22-23 Mountain View, California
	SEMICON Europa Plastic Electronic Conference	October 6-8 Dresden, Germany
	SEMICON Japan	December 16-18 Tokyo

NA Standards Spring 2015 Meetings

March 29 – April 2

Standards meetings at SEMI Headquarters

- 3DS-IC
- EHS
- Facilities & Gases
- HB-LED
- Information & Control
- Liquid Chemicals
- MEMS / NEMS
- Metrics
- NARSC
- PV Materials



Intel (Santa Clara) will host the PIC meetings



KLA-Tencor (Milpitas) will host the Silicon Wafer meetings



NA Standards Spring 2015 Meetings

March 29 – April 2

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	3	4	5	6	7	8
NARSC		3DS-IC				
	EH&S					
	Facilities & Gases					
				HB-LED		
	Information & Control					
	Liquid Chemicals					
	MEMS/NEMS					
	Metrics					
			PV Materials			
		PIC				
	Silicon Wafer					

**Schedule
at-a-glance**

Upcoming NA Meetings

2015

Event Name	Event Type	Date / Venue
NA Compound Semiconductor Materials	Technical Committee Meeting	CS MANTECH May 20, 2015 Scottsdale, Arizona
NA Standards Meetings at SEMICON West 2015	Standards Meetings	July 13-16, 2015 San Francisco, California
NA Standards Fall 2015 Meetings	Standards Meetings	November 2-5, 2015 SEMI HQ in San Jose, California

2016

NA Standards Spring 2016 Meetings	Standards Meetings	April 4-7, 2016 SEMI HQ in San Jose, California	TENTATIVE
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NA Standards Meetings at SEMICON West 2015 (July 13-16)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
12	13	14	15	16	17	18
<div>NARSC</div>		3DS-IC			<div>Schedule at-a-glance</div>	
	EH&S					
	Facilities & Gases			HB-LED		
	Information & Control					
	Liquid Chemicals					
	MEMS/NEMS					
	Metrics					
		Microlithography				
			PV Materials			
		Physical Interfaces & Carriers				
	Silicon Wafer					
				Traceability		



**San Francisco
Marriott Marquis
Hotel**

SEMICON West Visitor Registration

- West '15 Visitor Registration opens April 1
- Expo Only Registration Dates

April 1 – May 8	May 9 – June 5	June 6 – July 10	July 11 - Onsite
Complimentary	\$50	\$100	\$150

Register Today!

<http://www.semiconwest.org/Participate/RegisterNow>



Revised 2015 Critical Dates for SEMI Standards Ballots

No.	Ballot Submission Due Date	Voting Period Starts	Voting Period Ends
Cycle 1	January 2	Now January 9 January 13	Now February 9 February 12
Cycle 2	Now January 29 January 30	Now February 10 February 13	Now March 12 March 16
New Cycle 3	February 27	March 13	April 13

No changes to these critical dates....

Cycle 4 Cycle 3	April 10	April 21	May 21	Use for West 2015 adjudication
Cycle 5 Cycle 4	May 8	May 22	June 22	
Cycle 6 Cycle 5	July 22	July 29	August 28	Use for NA Fall 2015 adjudication
Cycle 7 Cycle 6	August 17	August 31	September 30	
Cycle 8 Cycle 7	October 16	October 23	November 23	
Cycle 9 Cycle 8	November 16	December 1	December 31	

2015 Critical Dates for SEMI Standards Ballots

No.	Ballot Submission Due Date	Voting Period Starts	Voting Period Ends
Cycle 1	January 2	January 9	February 9
Cycle 2	January 29	February 10	March 12
Cycle 3	February 27	March 13	April 13
Cycle 4	April 10	April 21	May 21
Cycle 5	May 8	May 22	June 22
Cycle 6	July 22	July 29	August 28
Cycle 7	August 17	August 31	September 30
Cycle 8	October 16	October 23	November 23
Cycle 9	November 16	December 1	December 31

SEMI Standards Publications

Cycle	New	Revised	Reapproved	Withdrawn
November 2014	1	4	1	0
December 2014	3	4	3	0
January 2015	5	2	0	1
February 2015	3	7	3	0

- Total SEMI Standards in portfolio: **928**
 - Includes **110** Inactive Standards

New Requirements/Process Reminders for TC Chapter Meetings [1/3]

- Standards Document Development Project Period
 - Project period shall not exceed 3 years (Regs 8.3.2)
 - SNARF approval to TC Chapter approval
 - If document development activity is found to be continuing, but cannot be completed with 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. (Regs 8.2.1)
 - If the SNARF is submitted at a TC Chapter meeting, the committee can review and approve, but the SNARF will need to be distributed for two weeks and then approved via GCS.
- New SNARF & TFOF Form



Microsoft Word
7 - 2003 Document



Microsoft Word
7 - 2003 Document

New Requirements/Process Reminders for TC Chapter Meetings [2/3]

- Procedures for Correcting Nonconforming Titles of Published Standards Document (PM 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.
- Table of Content (TOC)
 - No section of a Standard or Safety Guideline may contain a list of section numbers and titles (e.g., similar to a Table of Contents).
 - Table of content can be approved editorially during Reapproval
- Assignment of Draft Document Numbers
 - Upon successful publication of a Document, or termination of work on it by the TF, Standards staff retires the Document number and its associated SNARF, and they are not to be used for further Document development activity.
 - For a Document with Line Item(s) that passed while others failed, the same SNARF may be used to reballot only those failed Line Item(s).
 - A new SNARF is required to introduce new Line Item(s).

New Requirements/Process Reminders for TC Chapter Meetings [3/3]

- SNARF
 - SNARFs may be submitted and approved for new, revised, reapproved, or reinstated Documents that have been approved by the TC Chapter, but not yet published (i.e., no new Publication Date Code exists yet). (PM NOTE 8)
- Minority Report (MR)
 - The motion passes if a simple majority of the **total** GCS voting membership (i.e., not just those who return votes) approve the motion (Regs 9.9)

Latest Approvals/Next Revisions

- Follow-up revisions of *Regulations* and *Procedure Manual* were published on 27 March, 2015 for use in NA Spring Standard meetings.

Regulations/PM Ballot Revisions [1/2]

Group #	Title	Regs	PM
1	Clarification on Standards Document Development Project Period	Y	Y
2	GCS Voting Period for Minority Reports	Y	Y
3	Improvement on Minority Report Handling for Shorter Time to Publication	Y	Y
4	TC Membership Requirement	Y	N
5	Ballot Adjudication Process Improvement	Y	Y
6	Revision to Procedural Review	Y	Y
7	Clarification of TC Chapter Review and Adjudication Term	Y	Y
8	Clarification of Procedure Guide to Procedure Manual	Y	Y
9	Miscellaneous Changes of Regulations	Y	N

Yellow indicates follow-up from Oct-Nov 2014 Regs ballot

Regulations/PM Ballot Revisions [2/2]

Group #	Title	Regs	PM
10	Add New Requirements Related to Notices	N	Y
11	Add New Guidance Related to Note	N	Y
12	Clarification on SNARF and TFOF submitter	N	Y
13	Clarification on SNARF approval procedures for New Standards/Safety Guidelines and major revision of existing Standards/Safety Guidelines	N	Y
14	Update Appendix 4 Related to Correction of Nonconforming Titles	N	Y
15	Clarifications of Procedures Related to Table of Contents	N	Y
17	Clarifications on Use of Shall, Must, and Should	N	Y
18	Miscellaneous Changes to Procedure Manual	N	Y

Ballot Adjudication Process Improvement (Group 5)

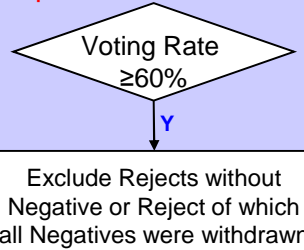
- Problem
 - Publications of Documents can be delayed by the need to go through another cycle of Letter Ballot issuance and adjudication at a TC Chapter meeting to make any technical change.
- Proposed Solution
 - Allow TC Chapter to make technical changes on balloted Standard Document during its adjudication under certain conditions. Conduct a Ratification Ballot in order to ensure global consensus on supporting the technical changes made by the TC Chapter.
- NOTE: This Group was originally proposed as Group 10 in the previous Regulations Ballot to ISC and failed.
 - Taking suggestion of ISC at its SEMICON Japan 2014 meeting in December, the scope of the Ratification Ballot is now limited to technical changes made by TC Chapter during adjudication of a Letter Ballot.

Letter Ballot Approval

SEMI INTERNATIONAL STANDARDS

Checked and
recorded by
Staff

Preprocess



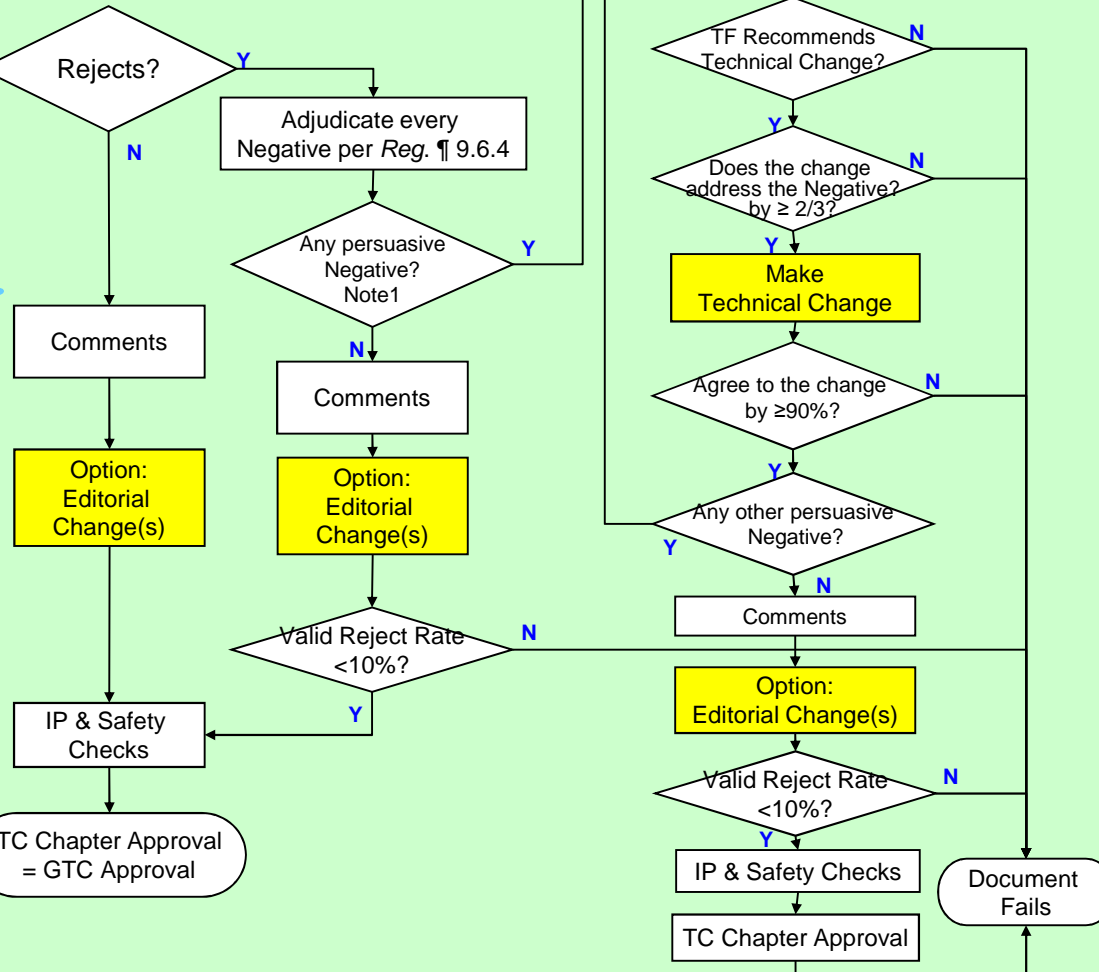
Decision body :
Program Members
attending TC Chapter
meeting (in person)

Note1

TC Chapter may use technical issue other than the one raised by a Negative to fail the Letter Ballot or choose to address the technical issue by a technical change.

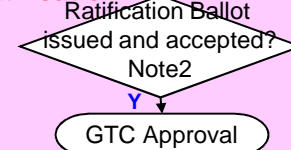
See Reg. ¶ 9.6.4.2.5

Letter Ballot Review



Decision body :
TC Members of Primary
GTC and TC Members of
the GTC(s) that received
Intercommittee Ballot

Ratification



Note2

Ratification Ballot
Acceptance Condition

Disapproval Rate
(= # of Voting Interests
that disapprove the
Ratification Ballot /
Total # of Voting
Interests that received
the Ratification Ballot)
< 10%

AND

Approval Rate
(= # of Voting Interests
for the Primary GTC
that approve the
Ratification Ballot /
Total # of Voting
Interests for the
Primary GTC)
≥ 30%

GCS Voting Period for Minority Report (Group 2)

- **Problem**

- Voting period for Minority Report is too short to solicit sufficient votes from GCS voting members.

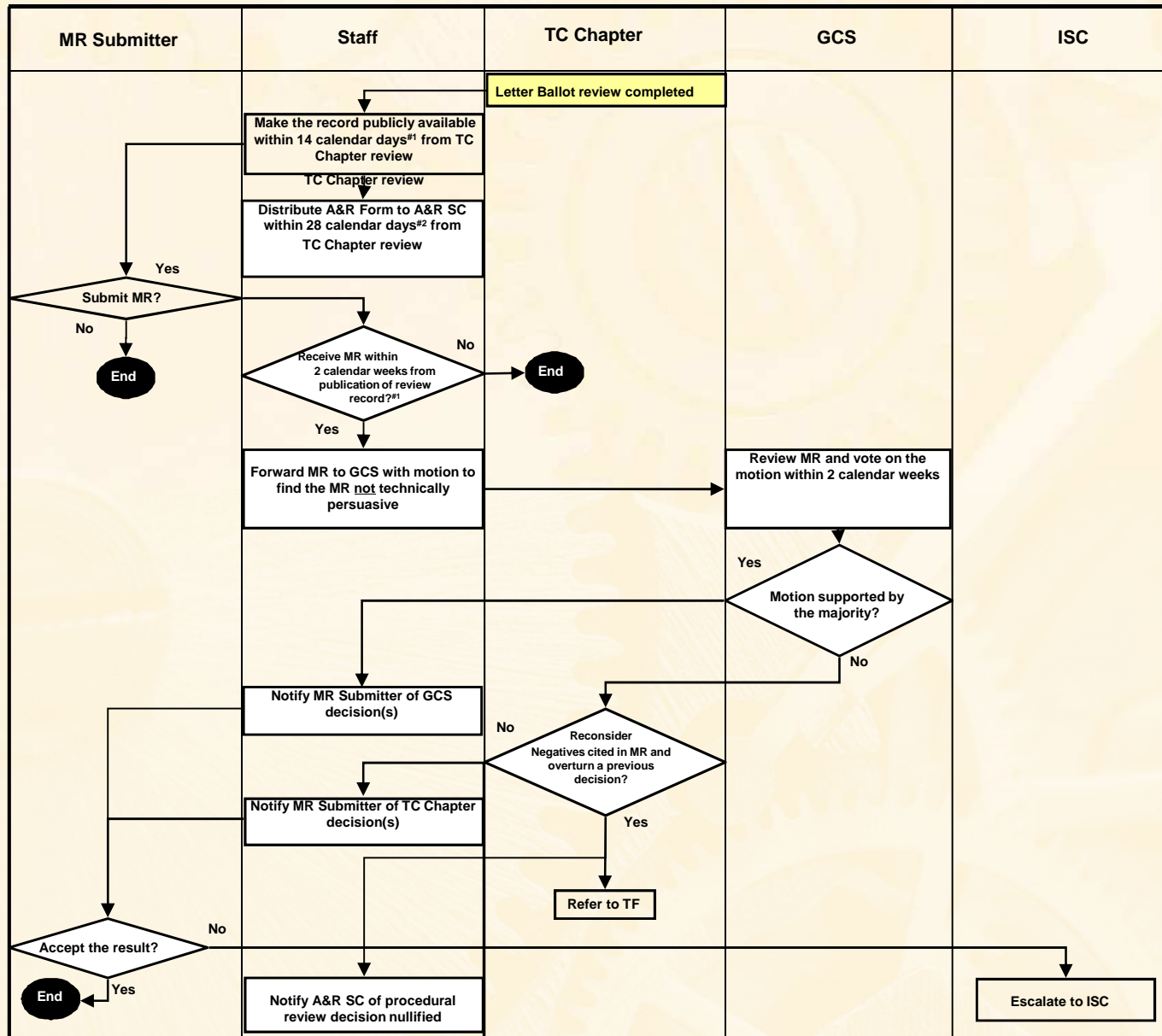
- **Proposed Solution**

- To let GCS member have 2 weeks voting period, which is same length as the Minority Report submission window.

- **NOTE:** This problem was raised by the NARSC at its Fall 2014 meeting at which the ISC Ballot on *Regulations* change was discussed. Following-up on this problem by additional changes in the *Regulations* was suggested by the Regulations SC Chair at the time.

Improvement on Minority Report Handling for Shorter Time to Publication (Group 3)

- **Problem**
 - Despite the rare occurrence of MR submission, every Document approved by the TC Chapter has to wait at least a month before it qualifies for A&R procedural review, which in turn results in a longer time to publish.
- **Proposed Solution**
 - Expedite the process by allowing A&R procedural review to be commenced as soon as record of ballot review made available.
 - If an MR is submitted on a Document, Publication will be on hold until responsible parties reach conclusion on the MR. If the Document is returned to the TF for rework based on consideration of the MR, A&R approval is nullified.
- **NOTE:** This problem was raised by JARSC at its SEMICON Japan 2014 meeting. ISC members expressed their support on improvement toward faster publication.



Thank you