



PV Committee China TC Chapter
PV Materials Committee China TC Chapter
Joint Meeting Summary and Minutes

China Fall Standards Meeting 2020

November 13th, 2020, 09:00-17:00

Ramada Plaza Hangzhou Riverside, No.3399 Jiangnan Avenue, Binjiang District, Hangzhou, China.

TC Chapter Announcements

Next TC Chapter Meeting

China Spring Standards Meeting 2021

TBD, 2021, 09:00-17:00

TBD, China

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Guangchun Zhang (CSI)

SEMI Staff: Daniel Qi – SEMI China, Isadora Jin – SEMI China, Ein Wu (SEMI China)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Canadian Solar	Zhang	Guangchun	Canadian Solar	Xu	Tao
Runergy	Chen	Rulong	Canadian Solar	Guo	Suqin
JA Solar	Huang	Shuwen	JA Solar	Xu	Desheng
JA Solar	Huang	Xinming	JA Solar	Tang	Kun
Red Solar	Long	Hui	Red Solar	Cai	Xianwu
NAURA	Li	Buzhong	NAURA	Tian	Tao
Rutech	Ouyang	Jieyu	YINGLI	Ni	Jianxiong
Trina Solar	Zhou	Wei	Trina Solar	Zhong	Junjie
<i>JINAN University</i>	<i>Mai</i>	<i>Yaohua</i>	Hohai University	Zhang	Zhen
SEMILAB	Chen	Yue	SINOSICO	Yan	Dazhou
Linton	Li	Zhixin	Linton	Liu	Erfei
GCL	Zhou	Jie	Safest	Lu	Wenfeng
LONGi	Fu	Nannan	LONGi	Wu	Beibei
Leadmicro	Li	Weiming	Sunland	Zhu	Jingbing
Shenzhen S.C	Li	Shijun	Shenzhen S.C	Tan	Haoyun
HuanSheng Solar	Ma	Qingtian	HuanSheng Solar	Liu	Jiaoyan
MAXWELL	Shao	Tianqi	Sunchine	Wang	Tong



<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Gain Solar	Zhao	Weiwei	Gain Solar	Ma	Ming
Risen	Hu	Yuting	Risen	Ke	Yiping
Seven Star	Dong	Xiaogang	CPVT	Lu	Jiayan
Aikosolar	Zhang	Linhai	Jinko	He	Yujia
Jolywood	Chen	Jia	Jolywood	Wei	Qin
Jingrui	Fu	Hua	TaleSun	Lian	Weifei
ZhongHuan	Shi	Shigang	SUNTECH	Chen	Liping
DaTang PV	Liang	Yuhang	DaTang PV	Zhang	Jianguo
HG-Noblemetal.	Ding	Gangqiang	CHINT	Li	Jiawei
CHINT	Wang	Shipeng	CHINT	Lin	Sainv
CHINT	Zhu	Rongyao	CHINT	Hua	Feng
CHINT	Qian	Huan	CHINT	Shan	Na
CHINT	Zhou	Shengyong	CHINT	Zhang	Haitao
	Lv	Jinbiao			

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
<i>Photovoltaic</i>		
None		
<i>Photovoltaic Materials</i>		
None		

Table 3 Committee Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
<i>Photovoltaic</i>	
Pollutant Risk Control Task Force	Inactive
PV Mobile Energy Task Force	Inactive
Thin Film PV Module Task Force	Active
<i>Photovoltaic Materials</i>	
None	

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
<i>Photovoltaic</i>		
6541A	New Standard: Classification of Building Integrated Photovoltaic (BIPV)	Passed as balloted
6611A	Revision to PV54-0514, Specification for Silver Paste, Used to Contact with N+ Diffusion Layer of Crystalline Silicon Solar Cells	Passed as balloted
6670	Revision to SEMI PV58-0115, Specification for Aluminum Paste Used in Back Surface Field of Crystalline Silicon Solar Cells	Passed with Technical Changes.



Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
		Ratification ballot to be issued.
6069	New Standard: Specification for Structural Silicone Adhesive for the Back Rail Fixture on PV Modules	Passed as balloted
6661	Reapproval of SEMI PV62-0215, Terminology for Back Contact Photovoltaic (PV) Cells and Modules	Passed as balloted
6664	Reapproval of SEMI PV65-0715, Test Method Based on RGB for Crystalline Silicon (C-Si) Solar Cell Color	Passed as balloted
6665	Reapproval of SEMI PV66-0715, Test Method for Determining the Aspect Ratio of Solar Cell Metal Fingers by Confocal Laser Scanning Microscope	Passed as balloted
6666	Reapproval of SEMI PV67-0815, Test Method for the Etch Rate of a Crystalline Silicon Wafer by Determining the Weight Loss	Passed as balloted
6667	Reapproval of SEMI PV68-0815, Test Method for the Wire Tension of Multi-Wire Saws	Passed as balloted
6660	Reapproval of SEMI PV61-0115, Specification for Framing Tape for Photovoltaic (PV) Modules	Passed as balloted
<i>Photovoltaic Materials</i>		
6642	Reapproval of SEMI PV13-0714 Test Method for Contactless Excess-Charge-Carrier Recombination Lifetime Measurement in Silicon Wafers, Ingots, and Bricks Using an Eddy-Current Sensor.	Passed as balloted
6662	Revision to SEMI PV59-0115, Test Method for Determination of Total Carbon Content in Silicon Powder by Infrared Absorption After Combustion in an Induction Furnace	Passed as balloted
6668	Reapproval of SEMI PV74-0216, Test Method for the Measurement of Chlorine in Silicon by Ion Chromatography	Passed as balloted
6663	Reapproval of SEMI PV64-0715, Test Method for Determining B, P, Fe, Al, Ca Contents in Silicon Powder for PV Applications by Inductively Coupled Plasma Optical Emission	Passed as balloted

#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 abandoning.

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

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
<i>Photovoltaic</i>			
	SNARF	Building Integrated Photovoltaic (BIPV) TF	Test Methods of Wind Uplift Resistance for Roof-Top Building Integrated Photovoltaics (BIPV)
	SNARF	Thin Film PV Module Task Force	Withdrawal of SEMI PV73-0216, Test Method for Thin-Film Silicon Photovoltaic (PV) Modules Light Soaking
<i>Photovoltaic Materials</i>			
None			

Table 6 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
<i>Photovoltaic</i>			



Table 6 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

#	Type	SC/TF/WG	Details
	SNARF	Building Integrated Photovoltaic (BIPV) TF	Test Methods of Wind Uplift Resistance for Roof-Top Building Integrated Photovoltaics (BIPV)
	SNARF	Thin Film PV Module Task Force	Withdrawal of SEMI PV73-0216, Test Method for Thin-Film Silicon Photovoltaic (PV) Modules Light Soaking
<i>Photovoltaic Materials</i>			
None			

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

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

Table 7 Authorized Ballots

#	When	TF	Details
<i>Photovoltaic</i>			
None			
<i>Photovoltaic Materials</i>			
None			

Table 8 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
<i>Photovoltaic</i>			
None			
<i>Photovoltaic Materials</i>			
None			

Table 9 SNARF(s) Abolished

#	TF	Title
<i>Photovoltaic</i>		
6459	Crystalline Silicon Solar Cell Task Force	New Standard: Test Method for Light Induced Degradation of Crystalline Silicon PV Cells at Elevated Temperature
<i>Photovoltaic Materials</i>		
None		

Table 10 Standard(s) to receive Inactive Status

Standard Designation	Title
<i>Photovoltaic</i>	
None	
<i>Photovoltaic Materials</i>	
None	

Table 11 Table 10 Standard(s) to receive Withdrawal Status

<i>Standard Designation</i>	<i>Title</i>
<i>PV</i>	
None	
<i>PV Materials</i>	
PV73-0216	Test Method for Thin-Film Silicon Photovoltaic (PV) Modules Light Soaking

Table 12 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
China PV-1113-01	Every Task Forces' leaders	Update Task Force members' contact information

Table 13 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
China PV-0630-01	PV Committee members	SEMI PV73-0216 to be five-year-review

1 Welcome, Reminders, and Introductions

Committee co-chair Guangchun Zhang chaired the meeting and welcomed all attendees. All the attendees introduced themselves. SEMI Staff called the meeting to order at 09:00 a.m. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed.

Agenda was reviewed.

Attachment: 1 Chinese SEMI Standard Meeting Reminders

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: To approve the minutes of the previous meeting as written

By / 2nd: Zhen Zhang (Hohai University)/ Zhixin Li (Linton)

Discussion: None

Vote: 29Y - 0 N, (Total 29 companies.) Motion Passed.

Attachment: 2. China PV&PVM TC Joint Spring Meeting Minutes 20200630

3 Liaison Reports

3.1 PV Materials North America TC Chapter

Isadora Jin (SEMI) reported for the PV Materials North America TC Chapter. Of note:

Action Item: Next meeting –SEMICON West. San Francisco CA, Wednesday, July 22, 2020 (Postponed)

- The Co-chair of North America PV Materials TC is Hugh Gotts (Air Liquide).
- Ballot Results
 - None
- Ballot authorized for next meeting



- Doc. 6642, Reapproval of SEMI PV13 - Test Method for Contactless Excess-Charge-Carrier Recombination Lifetime Measurement in Silicon Wafers, Ingots, and Bricks Using an Eddy-Current Sensor
 - Requesting ballot review transfer to China TC Chapter as COVID-19 forces to postpone the TC meeting in July 2020
- Abolished SNARF(s)
 - None

Attachment: 5 PVMaterials NA TC Chapter Liaison Report Nov 2020

3.2 PV Materials Europe TC Chapter

Isadora Jin (SEMI) reported for the PV Materials Europe TC Chapter. Of note:

Action Item: Next meeting – TBD

- The Co-chairs of Europe PV Materials TC are C.Hagendorf (Fraunhofer Center for Solar Photovoltaics) and P.Wagner (Self).
- Ballot Results: All passed.
 - Doc. 6373, New Standard: Test Method For Accelerated Cell Level Testing For Light And Elevated Temperature Induced Degradation (LeTID) Susceptibility Of Solar Cells
 - Doc. 6543, Reapproval of SEMI PV42-0314: Test Method for In-Line Measurement of Waviness of PV Silicon Wafers by a Light Sectioning Technique Using Multiple Line Segments
 - Doc. 6544, Reapproval of SEMI PV51-0214: Test Method for In-Line Characterization of Photovoltaic Silicon Wafers by Using Photoluminescence
 - Doc. 6545, Reapproval of SEMI PV52-0214: Test Method for In-Line Characterization of Photovoltaic Silicon Wafers Regarding Grain Size
- Authorized Activities
 - None

Attachment: 6 EU PV Materials Liaison Report Nov 2020 v1

3.3 PV and PV Materials Japan Joint TC Chapter

- None

3.4 Photovoltaic Taiwan TC Chapter

- None

3.5 SEMI Staff Report

Isadora Jin (SEMI) gave the SEMI Staff Report. Of note:

Action Item:

- SEMI International Standards Overview
- 2020 Critical Dates for SEMI Standards Ballots
- SEMI Standards Publications
- 5 Year Review List



- A&R SC Membership Update
- China PV TC Update
- China Compound Semiconductor TC Update
- Simplified Chinese Translation
- EHS Information
- Virtual Meeting Schedule

Attachment: 4 SEMI Staff Report 20201113

3.6 *Other SDO (Standards Development Organization) Update*

3.6.1 *IEC TC 82 Update*

- IEC TC 82 Scope
- IEC TC 82 Summary
- TC 82 Working Groups
- TC 82 Motivation
- ‘PVQAT Effect’ on TC82
- System Certifications
- Important New Efforts

Attachment: 7 TC82 for SEMI oct20

4 Ballot Review

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.

4.1 Document 6541A, New standard: Classification of Building Integrated Photovoltaic (BIPV)

Motion: Weiwei Zhao (GainSolar) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: Weiwei Zhao (GainSolar) / Jinbiao Lv (GCL)

Discussion: None

Vote: 27 in favor and 0 opposed. (Total 29 companies. 0 companies abstain.) Motion Passed as balloted.

Attachment: 15 A&R report 6541A

4.2 Document 6611A, Revision to SEMI PV54-0514, Specification for Silver Paste, Used to Contact with N+ Diffusion Layer of Crystalline Silicon Solar Cells

Motion: Rulong Chen (Runergy) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: Rulong Chen (Runergy) / Xinming Huang (JA Solar)

Discussion: None

Vote: 29 in favor and 0 opposed. (Total 29 companies.) Motion Passed as balloted.

Attachment: 16 A&R report 6611A



4.3 Document 6670, Revision to SEMI PV58-0115, Specification for Aluminum Paste, Used in Back Surface Field of Crystalline Silicon Solar Cells

Motion: Rulong Chen (Runergy) moved that this Document passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.

By / 2nd: Rulong Chen (Runergy) / Jingbing Zhu (Sunland)

Discussion: None

Vote: 26 in favor and 0 opposed. (Total 29 companies.) Motion Passed as balloted.

Attachment: 17 A&R report 6670, 17 SEMI_16x9_Main_Ballot_Report-6670

4.4 Document 6642, Reapproval of SEMI PV13-0714 Test Method for Contactless Excess-Charge-Carrier Recombination Lifetime Measurement in Silicon Wafers, Ingots, and Bricks Using an Eddy-Current Sensor

Motion: Jingbing Zhu (Sunland) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: Jingbing Zhu(Sunland) / Nannan Fu (LONGI)

Discussion: SEMILAB: Test method is suggested to be more specific.

Jingbing Zhu (Sunland): In terms of test on 2 cm silicon ingot's lifetime, this method is contactless and scatheless. It is not high accuracy but valuable as well. I approve this 5 year review. Thick materials' test is inaccuracy because light transmissivity is not deep enough to test.

Nannan Fu (LONGI): Contact Tests on silicon ingot are widely used at present. Silicon wafers have no lifetime test because damages on surface and recombination.

Vote: 29 in favor and 0 opposed. (Total 29 companies.) Motion Passed.

Attachment: 18 6642 A&R report

4.5 Document 6069, New standard: Specification for Silicone Adhesive for the Back Rail Fixture on PV Modules

Motion: Junjie Zhong (TrinaSolar) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: Junjie Zhong (TrinaSolar) / Weiming Li (Microlead)

Discussion: None

Vote: 29 in favor and 0 opposed. (Total 29 companies.) Motion Passed.

Attachment: 25 A&R report 6069

4.6 Document 6662, Reapproval of SEMI PV59-0115, Test Method for Determination of Total Carbon Content in Silicon Powder by Infrared Absorption after Combustion in an Induction Furnace

Motion: Jiayan Lu (CPVT) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: Jiayan Lu (CPVT) / Tao Xu (Canadian Solar)

Discussion: None

Vote: 27 in favor and 0 opposed. (Total 28 companies.) Motion Passed as balloted.

Attachment: 26 A&R report 6662

4.7 Document 6661, Reapproval of SEMI PV62-0215, Terminology for Back Contact Photovoltaic (PV) Cells and Modules

Motion: Zhixin Li (Linton) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.



By / 2nd: Zhixin Li (Linton) / Wei Zhou (TRINA)
Discussion: None
Vote: 29 in favor and 0 opposed. (Total 29 companies.) Motion Passed as balloted.
Attachment: 27 A&R report 6661

4.8 Document 6664, Reapproval of SEMI PV65-0715, Test Method Based on RGB for C Si Solar Cell Color

Motion: Jianxiong Ni (YINGLI) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
By / 2nd: Jianxiong Ni (YINGLI) / Weiming Li (Leadmicro)
Discussion: None
Vote: 29 in favor and 0 opposed. (Total 29 companies.) Motion Passed as balloted.
Attachment: 28 A&R report 6664

4.9 Document 6665, Reapproval of SEMI PV66-0715, Test Method for Determining the Aspect Ratio of Solar Cell Metal Fingers by Confocal Laser Scanning Microscope

Motion: Jianxiong Ni (YINGLI) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
By / 2nd: Jianxiong Ni (YINGLI) / Xinming Huang (JA Solar)
Discussion: None
Vote: 25 in favor and 0 opposed. (Total 29 companies.) Motion Passed as balloted.
Attachment: 29 A&R report 6665

4.10 Document 6666, Reapproval of SEMI PV67-0815, Test Method for the Etch Rate of a Crystalline Silicon Wafer by Determining the Weight Loss

Motion: Jianxiong Ni (YINGLI) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
By / 2nd: Jianxiong Ni (YINGLI) / Xinming Huang (JA Solar)
Discussion: None
Vote: 27 in favor and 0 opposed. (Total 29 companies.) Motion Passed as balloted.
Attachment: 30 A&R report 6666

4.11 Document 6667, Reapproval of SEMI PV68-0815, Test Method for the Wire Tension of Multi Wire Saws

Motion: Xianwu Cai (RedSolar) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
By / 2nd: Xianwu Cai (RedSolar) / Jingbing Zhu (Sunland)
Discussion: None
Vote: 27 in favor and 0 opposed. (Total 29 companies.) Motion Passed as balloted.
Attachment: 31 A&R report 6667

4.12 Document 6668, Reapproval of SEMI PV74-0216, Test Method for the Measurement of Chlorine in Silicon by Ion Chromatography

Motion: Wenfeng Lu (SFT) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.



By / 2nd: Wenfeng Lu (SFT) /Rulong Chen (Runergy)
Discussion: None
Vote: 25 in favor and 0 opposed. Motion Passed as balloted.
Attachment: 32 A&R report 6668

4.13 Document 6660, Reapproval of SEMI PV61-0115, Specification for Framing Tape for Photovoltaic (PV) Modules

Motion: Jianxiong Ni (YINGLI) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
By / 2nd: Jianxiong Ni (YINGLI) / Rulong Chen (Runergy)
Discussion: None
Vote: 22 in favor and 0 opposed. (Total 22 companies.) Motion Passed as balloted.
Attachment: 33 A&R report 6660

4.14 Document 6663, Reapproval of SEMI PV64-0715, Test Method for Determining B, P, Fe, Al, Ca Contents in Silicon Powder for PV Applications by Inductively Coupled Plasma Optical Emission Spectrometry

Motion: Wenfeng Lu (SFT) moved that this Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
By / 2nd: Wenfeng Lu (SFT) / Xinming Huang(JA Solar)
Discussion: None
Vote: 22 in favor and 0 opposed. (Total 22 companies.) Motion Passed as balloted.
Attachment: 34 A&R report 6663

5 Subcommittee and Task Force Reports

5.1 PV Silicon Raw Materials Task Force

Wenfeng Lu (Safest) reported for the PV Silicon Raw Materials Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members.
- Introduced published standards.
- Working on
 - Doc 6458A, Specification for Silicon Powder used in Polysilicon Production

Attachment: 8 SEMI PV Task Force Report-PV Silicon Raw Material20201113-rev1

5.2 PV Silicon Wafer Task Force

Nannan Fu (LONGi) reported for the PV Silicon Wafer Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members.
- Documents in work:
 - Doc. 6609 - Revision to SEMI PV22-0817, Specification for Silicon Wafers for Use in Photovoltaic Solar Cells



Attachment: 9 PV Silicon Wafer TF Report Nov. 13th, 2020 V2-rev1

5.3 Crystalline Silicon Solar Cell Task Force

Jianxiong Ni (YINGLI) reported for the Crystalline Silicon Solar Cell Task Force. This report contained information on:

Action Item:

- Introduced the task force’s leaders and members
- Introduced published standards.
- Working on
 - Doc 5842, New Standard: Test Method for Metal-Wrap-Through Solar Cell Via Resistance
 - Doc 6459, New Standard: Test Method for Light Induced Degradation of Crystalline Silicon PV Cells at Elevated Temperature
 - Doc 6611, Revision of SEMI PV54-0514 , Specification for Silver Paste, Used to Contact with N+ Diffusion Layer of Crystalline Silicon Solar Cells
 - Doc 6670, Revision of SEMI PV58-0115 : Specification for Aluminum Paste, Used in Back Surface Field of Crystalline Silicon Solar Cells
 - Doc 6664, Revision of SEMI PV65-0715: Test Method Based on RGB for C-Si Solar Cell Color
 - Doc 6665, Revision of SEMI PV66-0715: Test Method for Determining the Aspect Ratio of Solar Cell Metal Finger by Confocal Laser Scanning Microscope
 - Doc 6666, Revision of SEMI PV67-0815: Test Method for the Etch Rate of a Crystalline Silicon Wafer by Determining the Weight Loss

Attachment: 10 Crystalline Silicon Solar Cell Report--电池工作组汇报 PPT--1113-rev1

5.4 PV Module Task Force

Wei Zhou (Trina Solar) reported for the PV Module Task Force. This report contained information on:

Action Item:

- Introduced the task force’s leaders and members
- Introduced published standards
- Working on
 - Doc 6069, New Standard: Specification for Structural Silicone Adhesive for the Back Rail Fixture on PV Modules
 - Doc 6113, New Standard: Test Method for Abrasion Resistance of the Polymer Backsheet of Crystalline Silicon Solar Modules
 - Doc 6610, Revision on SEMI PV86-1018 - Specification for Crystalline Silicon Photovoltaic Module Dimensions
 - SEMI PV63-0215, Specification for Ultra-thin glasses used for photovoltaic modules
- **Attachment:** 11 SEMI PV Module TF Report 2020-11-13

5.5 Building Integrated Photovoltaic (BIPV) Task Force

Jianxiong Ni (YINGLI) reported for the Building Integrated Photovoltaic (BIPV) Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members
- Working on
 - Doc. 6541, Classification of Building Integrated Photovoltaic (BIPV)
 - Doc. 6542, Guide for Scrap Judgement of Photovoltaic modules in building
 - SNARF: New Standard: Test Methods of Wind Uplift Resistance for Roof-Top Building Integrated Photovoltaics (BIPV)

Attachment: 12 Building Integrated Photovoltaic (BIPV) Task Force--BIPV 工作组汇报 PPT--rev1

5.6 PV Equipment Task Force

Buzhong Li (NAURA) reported for the PV Equipment Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members
- Introduced published standards
- Working on
 - Doc. 5983D, Test Method for In-line Sheet Resistance Inspection Using the Junction Photo-Voltage Method
 - Reapproval of SEMI PV68-0815, Test Method for the Wire Tension of Multi-Wire Saws

Attachment: 13 SEMI 光伏设备工作组汇报 ppt(2020 秋季会议)-11.10

5.7 Thin Film PV Modules Task Force

Yaohua Mai ((Jinan University) reported for the Thin Film PV Modules Task Force. This report contained information on:

Action Item:

- Introduced the task force's leaders and members
- Working on
 - Revision of SEMI PV73-0216, Test Method for Thin-Film Silicon Photovoltaic (PV) Modules Light Soaking

Attachment: 14 Thin Film PV Modules TF Report Nov. 13th, 2020 -rev1

6 Old Business

6.1 Refer to Table 12 Previous Meeting Action Items

7 New Business

7.1 Requests for ballots in Cycle of 2021

7.1.1 Doc. 5983D, Test Method for In-line sheet Resistance Inspection Using the Junction Photo-Voltage Method

Motion: Hui Long (RedSolar) moved that the committee approve Document 5983D for Letter Ballot in Cycle of 2021.

By / 2nd: Hui Long (RedSolar) / Dazhou Yan (SINOSICO)



Discussion: Zhixin Li (Linton): What about the degree of correlation between two documents?
Hui Long (RedSolar): Maybe about 20%.
Weiming Li (Leadmicro): Patent issues need to be treated rigorously. It is necessary to confirm with the related people about the relationship between two documents.
Jingbing Zhu (Sunland): There maybe has some relationship but not patent infringement.
Zhixin Li (Linton): There should has communication with the author of the patent

Vote: 0 in favor and 29 opposed. (Total 29 companies. 0 companies abstain.) Motion failed and returns to TF for re-work and rebalot.

Attachment: 23 DOC5983D

7.2 New SNARFs

7.2.1 SNARF, New Standard: Test Methods of Wind Uplift Resistance for Roof-Top Building Integrated Photovoltaics (BIPV)

Motion: Chengjun Zhou (ChintSolar) moved that the committee approve the SNARF for New Standard: Test Methods of Wind Uplift Resistance for Roof-Top Building Integrated Photovoltaics (BIPV).

By / 2nd: Chengjun Zhou (ChintSolar) / Tao Xu (Canadian Solar)

Discussion: Tao Xu (Canadian Solar): Can it be describe like “BIPV on roof”?
Guangchun Zhang (CSI): The roof is based on architecture. “On roof” can be misunderstood in just put on the housetop.
Weiming Li (Leadmicro): I think “Roof-Top” is more appropriate.

Vote: 28 in favor and 0 opposed. (Total 29 companies.) Motion passed.

Attachment: 22 光伏建筑一体化 (BIPV) 屋面产品抗风揭试验方法-中英文对照
22 SNARF--Test Method of Wind Uplift Resistance for Roof-Top Building Integrated Photovoltaics (BIPV)-rev1

7.3 Five-Year-Review

7.3.1 5-Year-Review SNARF, Withdrawal of SEMI PV73-0216, Test Method for Thin-Film Silicon Photovoltaic (PV) Modules Light Soaking

Motion: Yaohua Mai ((Jinan University) moved that the committee approve the SNARF for 5-Year-Review: Withdrawal of SEMI PV73-0216, Test Method for Thin-Film Silicon Photovoltaic (PV) Modules Light Soaking.

By / 2nd: Yaohua Mai ((Jinan University) / Wei Zhou (TRINA)

Discussion: None

Vote: 27 in favor and 0 opposed. (Total 29 companies.) Motion passed.

Attachment: 24 SNARF--Withdrawal of SEMI PV73-0216, Test Method for Thin-Film Silicon Photovoltaic (PV) Modules Light Soaking

8 Next Meeting and Adjournment

The next meeting of the PV & PV Materials China TC Chapter is scheduled for TBD.

For more information, please visit Standards Calendar at <http://www.semi.org/en/standards>

Adjournment: 17:30.

Respectfully submitted by:



Isadora Jin
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Minutes tentatively approved by:

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1 Chinese SEMI Standard Meeting Reminders	17 A&R report 6670
2 China PV&PVM TC Joint Fall Meeting Minutes 20200630	18 6642 A&R report
4 SEMI Staff Report 20201113	22 SNARF--Test Method of Wind Uplift Resistance for Roof-Top Building Integrated Photovoltaics (BIPV)-rev1
5 PVMaterials NA TC Chapter Liaison Report Nov 2020	22 光伏建筑一体化（BIPV）屋面产品抗风揭试验方法-中英文对照
6 EU PV Materials Liaison Report Nov 2020 v1	23 DOC5983D
7 TC82 for SEMI oct20	24 SNARF--Withdrawal of SEMI PV73-0216, Test Method for Thin-Film Silicon Photovoltaic (PV) Modules Light Soaking
8 SEMI PV Task Force Report-PV Silicon Raw Material20201113-rev1	25 A&R report 6069
9 PV Silicon Wafer TF Report Nov. 13th, 2020 V2-rev1	26 A&R report 6662
10 Crystalline Silicon Solar Cell Report--电池工作组汇报 PPT--1113-rev1	27 A&R report 6661
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12 Building Integrated Photovoltaic (BIPV) Task Force--BIPV 工作组汇报 PPT--rev1	29 A&R report 6665
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#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.