



Japan PV Automation Committees Meeting Summary and Minutes

Japan Standards Fall Meetings 2013 October 24, 2013 15:00-18:00 Conference Room1 JPR Bldg. SEMI Japan Office, Tokyo, Japan

Next Committee Meeting

March 7, 2014, 13:30-17:00 Japan Standard Time Japan Standards Spring Meetings 2014, Tokyo, Japan

Committee Announcements (optional)

None

Table 1 Meeting Attendees

Co-Chairs: Terry Asakawa (Tokyo Electron), Makoto Ishikawa (Nisshinbo Mechatronics), Emi Ishikawa (Atelier Ishikawa) **SEMI Staff:** Hirofumi Kanno

Company	Last	First	Company	Last	First
Tokyo Electron	Murata	Naoko	Tokyo Electron	Murakami	Takashi
Atelier Ishikawa	Ishikawa	Emi	Mitsubishi Electric	Ishihara	Takashi
Nishinbo Mechatronics	Ishikawa	Makoto	Mitsubishi Electric	Ito	Naoki
Mitsubishi Electric	Yutani	Takashi	SEMI Japan	Kanno	Hirofumi

Table 2 Leadership Changes

None

Table 3 Ballot Results (or move to Section 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.

Document #	Document Title	Committee Action
5223A	Revision to add a new Subordinate Standard: Media Interface Specifications for a Horizontal Communication between Equipment to SEMI PV35, Specification for Horizontal Communication Between Equipment for Photovoltaic Eabrication System	Passed as balloted
5631	Line Item Revision to SEMI PV35-1012, Specification for Horizontal Communication Between Equipment for Photovoltaic Fabrication System	
Line Item 1	Add new state "Sf14: End Check" to the state model of Material Handoff Handshake which is a substate of Material Send Active, Material Swap Active and Material Receive Active states. Revise the following items in accordance with this addition of new state.	Passed as balloted. Super Clean

Table 4 Authorized Ballots (or move to Section 7, New Business)

None

Table 5 Authorized Activities (or move to Section 7, New Business)

None

Table 6 New Action Items (or move to Section 8, Action Item Review)

None





Table 7 Previous Meeting Actions Items (or move to Section 8, Action item Review)

None

1 Welcome, Reminders, and Introductions

Makoto Ishikawa called the meeting to order at 15:00. 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

The committee reviewed the minutes of the previous meeting.

Motion:Approve the minutes of the previous meeting.By / 2nd:Takashi Murakami (Tokyo Electron) / Naoko Murata (Tokyo Electron)Discussion:NoneVote:5:0

3 Liaison Reports

3.1 Europe PV Automation Committee

Hirofumi Kanno (SEMI) reported for the Europe PV Automation Committee. Of note:

- Committee Leadership: Co-Chair: Eberhard Teichmann (Peer Group)
- Meeting Information
 - Last meetings: Oct 8-10, 2013 in SEMICON Europa, Dresden, Germany
 - Next meeting: June 2014 in Intersolar Europe, Munich, Germany
- Upcoming Ballot
 - Doc 5566: Line Item Revision to SEMI PV002-00-0709E Guide for PV Equipment Communication Interfaces (PVECI), modify requirement [PV02-RQ-00007-00] to allow implementation of new namelist requests instead of required documentation.
 - ♦ Cycle 8, 2013

Attachment: 01, EU PV Automation Liaison Report Updated 20131021 v1

3.2 China PV Committee

Hirofumi Kanno (SEMI) reported for the China PV Committee. Of note:

- Leadership
 - Co-Chairs: Guangchun Zhang (Canadiansolar) and Jun Liu (China Electronics Standardization Institute)
- New TFOF
 - Crystalline Silicon Solar Cell Task Force
 - ♦ Task Force Leader: Dengyuan Song Yingli
- New SNARF
 - > Doc. XXXX(TBA): New Standard: Test Method for C-Si Solar Cell Color (new SNARF)
- Meeting Information





- Last meeting: Wednesday, October 23, 2013, Wuxi, China
- Next meeting: Thursday, March 20th, 2014, Shanghai, China

Attachment: 02, China Photovoltaic Committee Liaison Report20131023

3.3 SEMI Staff Report

Hirofumi Kanno (SEMI) gave the SEMI Staff Report. Of note:

- Global SEMI Events
- Global Standards Meetings Schedule
- Ballot Critical Dates
- Publication Update
- ISC A&R SC Summary May and June 2013
- Preparation for SEMICON Japan 2013
- Contact Information

Attachment: 03, SEMI Staff Report 2013 July R0.2a

4 Ballot Review

4.1 Document #5223A, Revision to add a new Subordinate Standard: Media Interface Specifications for a Horizontal Communication between Equipment to SEMI PV35, Specification for Horizontal Communication Between Equipment for Photovoltaic Fabrication System

Tallies



NOTICE: This document met the 90% approval condition set forth in Section 9.6.3 of the *Regulations Governing SEMI Standards Committees* at the close of balloting.

NOTICE: This document did NOT meet the 90% approval condition set forth in Section 9.6.3 of the *Regulations Governing SEMI Standards Committees* at the close of balloting.

Rejects/Negatives

None





Comments Silveira, Jeff (BICSI)

- Item 1: Section 5.4.3: The correct name of a generic Ethernet cable connector is a modular connector. For Category 5e/6/6A or Class D/E/EA connectors, the more specific phrasing is an 8 position 8 contact (8P8C) modular connector. While a RJ45 is a common term for the modular connector, the RJ45 originates from a telephone-system-standard where an RJ45 plug has a key which excludes insertion in an un-keyed 8P8C socket. Within the family of RJ45 connectors, there are variants with differing mechanical and wiring specifications which are not compatible with ANSI/TIA 568-C.2 or ISO 11801, the two predominant Ethernet cabling and component standards.
- Item 2: Section 5.4.4: "care" should be changed to "address"
- Item 3: Addition of additional recommendation for network connector: In general, connectors and cabling are often specified together. Category/Class 5e or higher performance is more than adequate for the cabling system. However, as semiconductor manufacturing is considered an industrial application by the network/structure cabling professionals, shielded cabling that is properly bonded is recommended, which requires modular connectors that are suitable for the purpose. For this item 3, while specifying /recommending a minimum cable category/class performance level may not be needed, there is a need for a statement or note that shielded connectors may be required as part of an EMI mitigation solution for Ethernet cabling.

NOTICE: Items from "Reject" votes that are clearly marked by the voter as comments are included here.

Attachment: 04, 5223A_Ballot_Sheet

4.2 Document #5631, Line Item Revision to SEMI PV35-1012, Specification for Horizontal Communication Between Equipment for Photovoltaic Fabrication System

4.2.1 Line Item #1: Add new state "Sf14: End Check" to the state model of Material Handoff Handshake which is a substate of Material Send Active, Material Swap Active and Material Receive Active states. Revise the following items in accordance with this addition of new state.

Tallies

	Return	D	oistributi	01	Return Rate	e
Yellow	58	÷	92	=	63.0%	>=60%
Lilac & Others	45					
Total Vote	103					
Reject	0					
Accept	34					

NOTICE: This document met the 90% approval condition set forth in Section 9.6.3 of the *Regulations Governing SEMI Standards Committees* at the close of balloting.

NOTICE: This document did NOT meet the 90% approval condition set forth in Section 9.6.3 of the *Regulations Governing SEMI Standards Committees* at the close of balloting.





Rejects/Negatives

None

Comments None

NOTICE: Items from "Reject" votes that are clearly marked by the voter as comments are included here.

Attachment: 05, 5631_Ballot_Sheet

5 Subcommittee & Task Force Reports

5.1 PV Equipment I/F Specification Task Force (Murakami-san/ Ishikawa-san)

Takashi Murakami (Tokyo Electron) reported the current activity of the Task Force.

Attachment: 06, JA_PV_EIS_TF_StatusReport20131024r1.0

6 Old Business

6.1 Disbandment for the PV Transport Carrier Task Force

Hirofumi Kanno (SEMI) reported that the PV Transport Carrier Task Force was disbanded at the previous committee meeting.

7 New Business

None

8 Action Item Review

None

9 Next Meeting and Adjournment

The next meeting of the Japan PV Automation committee is scheduled for March 7, 2014, 13:30-17:00 at Conference Room1, JPR Bldg.7, SEMI Japan Office in Tokyo, Japan.





Respectfully submitted by: Hirofumi Kanno Manager, Standards & EHS SEMI Japan Phone: +81.3222.5862 Email: hkanno@semi.org

Minutes approved by:

Terry Asakawa (Tokyo Electron), Co-chair	March 7, 2014
Makoto Ishikawa (Nisshinbo Mechatronics), Co-chair	March 7, 2014
Emi Ishikawa(Atelier Ishikawa), Co-chair	March 7, 2014

Table 8 Index of Available Attachments #1

#	Title	#	Title
01	EU PV Automation Liaison Report Updated 20131021 v1	05	5631_Ballot_Sheet
02	China Photovoltaic Committee Liaison Report20131023	06	JA_PV_EIS_TF_StatusReport20131024r1.0
03	SEMI Staff Report 2013 July R0.2a		
04	5223A_Ballot_Sheet		

#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.