Procedural Review Voting Sheet
2011 Cycle 5

REGION: NA
COMMITTEE: PV Materials
EVENT: NA Fall Standards Meetings
DATE OF MEETING: October 26, 2011
PLACE OF MEETING: SEMI HQ, San Jose, CA
COMMITTEE CO-CHAIRS: Dick Hockett/Evans Analytical Group
SEMI STAFF: Kevin Nguyen

A&R Voter: Name/Company
Date: 200X/MM/DD

I. Document Number & Title

5111	**New Standard: Test Method for Spectrally Resolved Reflective and Transmissive Haze of Transparent Conducting Oxide (TCO) Films for PV Application**

II. Tally (Staff to fill in)

Voting Tally: As-cast tally after close of voting period

A minimum of 60% of the voting interests that have voting members within the technical committee must return votes. (Regulations ¶ 9.6.1)

	Return		Distribution		Return Rate	
Yellow	35	÷	57	=	61.4%	>=60%
Lilac & Others	28					
Total Vote	63					
Reject	0					
Accept	16					

A&R		Not approved
	Reason:	

III. Rejects

There was no reject.

IV. Comments

Comment 1

Comment	**Referenced Section**		**Section 2.2**
	From		**Douglas Hall (Hall Consultant)**
	Comment		The materials are restricted to "TCO films deposited on amorphous or other types of silicon". This method can also be used to determine reflective haze on CIGS PV absorbers. A change could read "TCO films deposited on PV absorber materials."
	Discussion		This change will be made in future revision.
Action proposed	x	**The committee agreed to do one of the following actions.**	
		***No motion is required in this step.**	
			No further action was taken by the committee.
			Refer to the task force for more consideration.
		x	New Business
			Other
	Editorial Change		
		Case 1: No vote in this section :	
		To be included and voted on in § 5. Summary of Editorial Changes.	
		Case 2: Voted in this section :	
		Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
	1	**FROM: Section xxx**	
		To: Section xxx	
		Justification (If necessary)	
	2	**FROM: Section xxx**	

		To: Section xxx
		Justification (If necessary)
Motion by/2nd		Name (Company)/Name (Company)
Vote		XX-XX Motion passed (or failed)
A&R		**Not approved**
		Reason:

Comment 2

Comment	**Referenced Section**	
	From	**Jean-Marie Collard (Solvay)**
	Comment	Accept with comments It is a known practice in PV systems to estimate the efficiency of the system on a bandwith different to the visible domain (380-780 nm) : the "solar domain" or "solar spectrum" is preferred : we routinely estimate glass transparency on a domain of 400-1200 nm with a so-called "solar spectrum" weighting, for instance, which is also used by some glass (or PV ?) manufacturers. It does thus include some NIR region. Haze, in the proposed method, is basically considered as a "monochrome" measure (generally made with a monochrome laser beam), from which broad spectrum properties could probably be infered. It might be interesting to define a special instance of the haze measurement, relying on a broad spectrum evaluation of the haze, using a broad spectrum ("solar spectrum") source. This measurement would then be directly usable and could be compared to any other measurement made using such a broader spectrum, as the above mentioned transparency (solar spectrum) measurement. It might also be relevant and important to note that the 380-780 nm band contains very little harmonics of the base wavelengths (only the 380-390 region) whereas the proposed spectrum here contains a significant harmonic region (400-600nm), probably modifying the averaged haze value on this spectrum. For any further information or discussion, please contact : marc.lacroix@solvay.com jean-marie.collard@solvay.com Thank you
	Discussion	The TF will exam this comment for future revision.
	x	**The committee agreed to do one of the following actions.**

Action proposed			*No motion is required in this step.
			No further action was taken by the committee.
			Refer to the task force for more consideration.
		x	New Business
			Other
	Editorial Change		
			Case 1: No vote in this section :
			To be included and voted on in § 5. Summary of Editorial Changes.
			Case 2: Voted in this section :
			Original section number and at least one full sentence are required in "FROM" and "TO" fields.
		1	**FROM: Section xxx**
			To: Section xxx
			Justification (If necessary)
		2	**FROM: Section xxx**
			To: Section xxx
			Justification (If necessary)
Motion by/2nd			Name (Company)/Name (Company)
Vote			XX-XX Motion passed (or failed)
A&R			**Not approved**
			Reason:

V. Summary of Editorial Changes

No editorial change was proposed.

VI. Approval Conditions Check

APPROVAL CONDITION 1: All negatives have been discussed and were withdrawn, found not related, or not persuasive. (Regulations ¶ 9.6.2)

APPROVAL CONDITION 2: At least 90% of the sum of the valid accept and reject votes must be accept. (Regulations ¶ 9.6.3)

Note: if both approval conditions are not satisfied, the document fails.

		Accepts		(Accepts + Valid			
Approval Rate	=	16	/	16	=	100.0%	>=90%

A&R		Not approved
		Reason:

VII. Safety Check

See § 14 of the Regulations for further information

Motion:	x	This is not a Safety Document: when all safety-related information is removed, the document is still technically sound and complete.
		This is a Safety Document: when all safety-related information is removed, the document is not technically sound and complete.
		Safety Checklist (Regulations ¶ 14.3) is complete and has been included with the document throughout the balloting process.
Motion by/2nd by		Win Baylies (BayTech Group)/Marty Burkhart (Hi Pure Tech)
Discussion		None
Vote		7-0 Motion passed
A&R		Not approved
		Reason:

VIII. Intellectual Property Check

Note: This ballot may be all or part of a Standard or Safety Guideline. This IP check applies to the entire Standard or Safety Guideline. See § 15 of the Regulations for further information

x	The meeting chair asked those present in person or by electronic link, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline.		
	x	No potentially material patented technology or copyrighted items are known	**GO TO SECTION IX**
		Potentially material patented technology or copyrighted items are known but a Letter of Assurance (LOA) or copyright release for such material has been obtained or presented to the committee.	**GO TO SECTION IX**
		Potentially material patented technology or copyrighted items are known but an LOA or copyright release for some of the material(s) has NOT been obtained or presented to the committee	

MOTION		Ask ISC for special permission to publish	
		Quit activity	
		Wait for LOA for patented technology or release of copyrighted items.	
Motion by/2nd by		Name (Company)/Name (Company)	
Discussion		XXXX	
Vote		XX-XX	
Final Action		Motion Passed	
		Motion Failed	
A&R		**Not approved**	
	Reason:		

* Note: Such potentially material patented technology or copyrighted items might have become known since the Standard or Safety Guideline was last reviewed, or might become relevant due to this ballot.

IX. Action for this document

Motion	x	This document passed committee review as balloted and will be forwarded to the A&R for procedural review.	
		This document passed committee review with editorial changes and will be forwarded to the A&R for procedural review.	
		This document failed committee review and will be returned to the task force for rework.	
		This document failed committee review and work will be discontinued.	
Motion by/2nd by		Ron Sinton (Sinton Instruments)/Len Perroots (Super Sight)	
Discussion		None	
Vote		9-0	
Final Action	x	Motion passed	
		Motion failed	
A&R		**Approved**	
		Not approved	
	Reason:		