

Draft
Minutes
ASC OP/TF 2, Performance Based Optical Imperfections Task Force Draft Standard Meeting
January 23, 2011, 8:30 a.m. – 12 Noon
Intercontinental San Francisco
888 Howard Street, San Francisco, CA 94103
Twin Peaks Room (4th Floor)

<input checked="" type="checkbox"/> Committee Members (11 of 19)	Representing
<input checked="" type="checkbox"/> David Aikens	OEOSC (Savvy Optics Corp)
<input type="checkbox"/> Gordon Boulton	JDSU Corporation
<input type="checkbox"/> Andrei Brunfeld	Xyrtex
<input type="checkbox"/> Benjamin Catching (Alternate)	JDSU Corporation
<input checked="" type="checkbox"/> Walter Czajkowski	APOMA (Edmund Optics)
<input type="checkbox"/> Jessica DeGroot Nelson	Optimax Systems, Inc.
<input type="checkbox"/> Frank Dombrowski (by phone)	Gage-Line Technology, Inc.
<input checked="" type="checkbox"/> Marla Dowell	IEEE Photonics Society (NIST)
<input checked="" type="checkbox"/> Marla Dowell	NIST
<input type="checkbox"/> Lincoln Endelman	SPIE, (Endelman Enterprises)
<input checked="" type="checkbox"/> Charles Gaugh	Davidson Optronics, Inc.
<input checked="" type="checkbox"/> Donna Howland	Northrop Grumman Aerospace Systems
<input checked="" type="checkbox"/> Hal Johnson	Harold Johnson Optical Lab
<input checked="" type="checkbox"/> Alan Krisiloff	Triptar Lens Co., Inc.
<input type="checkbox"/> Mike Mandina (Alternate)	Optimax Systems, Inc.
<input checked="" type="checkbox"/> Garth Eliason	FLIR Precision Optics
<input type="checkbox"/> Rick Plympton (Alternate)	Optimax Systems, Inc.
<input checked="" type="checkbox"/> William Royall	Individual (Retired)
<input type="checkbox"/> Keith Snyder	Northrop Grumman Laser Systems
<input checked="" type="checkbox"/> Trey Turner	Research Electro-Optics, Inc.
<input type="checkbox"/> Ray Williamson	Ray Williamson Consulting
Observers (1)	
<input type="checkbox"/> Peter Takacs	Brookhaven National Lab.
<input type="checkbox"/> Gene Kohlenberg	OEOSC

1. Welcome and Introductions

A. Krisiloff opened the meeting at 08:32. He asked each person in the room to introduce him or herself. Donna Howland, Hal Johnson, Garth Eliason, Trey Turner, Allen Krisiloff, Walt Czajkowski, Bill Royall, Marla Dowell, and Dave Aikens were in attendance. Charles Gaugh joined at 9:35.

2. Adoption of Agenda

The agenda was modified to rearrange a few items and change the responsible person to A. Krisiloff, so Dave Aikens could take minutes as secretary, since Gene was not present. Donna Howland made the motion to accept the agenda, and Bill Royall seconded it. The motion carried unanimously. On his arrival, Charles Gaugh made a motion to revise the agenda to add "other business". Bill Royall seconded, and the motion carried.

3. Approval of the Minutes to the August 1, 2010 Meeting of ASC/OP TF2.

Bill Royall moved that the minutes be accepted and Hal Johnson seconded the motion. The motion carried unanimously.

4. OP1.002: Check for reference to do magnification calculation in case where the observer is looking at (internal) cemented surfaces.

Allen reported that he did not have a chance to check into this. The committee discussed at length the differences between dimensional and visibility specifications, and the concepts of magnification compensation in doublets and triplets. The consensus was that we need to be clear on this point, but that there might be a different requirement for

visibility versus dimensional specifications. For example, Trey Turner said that REO does take magnification into consideration, while Brill Royal said that RPO does not.

Allen will take these thoughts into consideration in his next committee draft.

5. OP1.002: Review of A. Krisiloff's critique including TF 2 members feedback.

Allen Krisiloff reviewed for the committee the critique on the initial draft from 2009. Discussions again focused on the use of the word “cosmetic” in the title and scope, and the use of the ambiguous term “assemblies” in the scope. Allen will propose a simpler, more clear title, and will remove cosmetic and assemblies from the scope.

After a long discussion of the title and the scope, we concluded that we need to be more clear about what part of the problem of surface imperfection specifications we want the standard to cover. Do we want to include imperfections which cannot be seen by eye under a 40 watt illumination?

The greatest technical flaw is that the dimensional method does not include sufficient guidance on the validation method. We need some sort of annex or reference to allow people to know how to measure scratches and digs for this specification, and guidance on what level of magnification needs to be applied for a given requirement. For now we shouldn't mess around with the visibility specification, but we should clean up the language to provide guidance to the consumer where possible.

See action items below.

6. Report on ARDEC visit and discussion on adoption of new American standards.

Dave Aikens reported on what has been going on at ARDEC. The Army has not made any progress on releasing a revision to MIL-PRF-13830B to reference ANSI/OEOSC OP1.002 as an approved interpretation of the scratch and dig standard. He also reported that the Army is switching over to using the SavvyInspector™ for their Army issued standards. The round robin at ARDEC showed that, with trained inspectors and the same illumination system, the standard is quite repeatable and reproducible. He also said the Army is not concerned about 40 Watt bulbs.

6.5 Other Business

Charles Gaugh reported that the sales volume for the comparison artifacts (>20) may not justify continued production of the sets. About 30% of the interest level is outside the US. FSI has the same general question. Savvy Optics has the same question. ASC OP TF2 recommends that the manufacturers involved get together off-line to determine if there is a way to work together generate a value proposition for continued manufacturing of the standards.

7. Action Items

The committee reviewed the action items from the previous meeting.

ASC OP/TF 2 Action Items from last Meeting

<i>Agenda Item</i>	<i>Action Item</i>	<i>Owner</i>	<i>Due Date</i>	<i>Status</i>
4	Check for reference to do magnification calculation in case where the observer is looking at (internal) cemented surfaces.	A. Krisiloff		cancelled
4	Keep scope consistent with title, i.e. cosmetic vs. appearance. Add statement specifying what is not included in the scope.	A. Krisiloff		To be in the next draft.
4	Complete review of A. Krisiloff's critique and provide A. Krisiloff with feedback.	All	9/1/10	done
5	Report back to task group on ARDEC visit and discussion on adoption of new American standards.	A. Krisiloff	10/01/10	Done; Dave Aikens provided the report.

ASC OP/TF 2 Action Items for Next Meeting

<i>Agenda Item</i>	<i>Action Item</i>	<i>Owner</i>	<i>Due Date</i>	<i>Status</i>
5	Provide a starting point for an annex describing the microscope-aided inspection for the dimensional method.	T. Turner	4/21/2011	open
5	Keep scope consistent with title, i.e. cosmetic vs. appearance. Add statement specifying what is not included in the scope.	A. Krisiloff		To be in the next draft.
5	Provide contact info for people at LMCO, NG Apopka and DRS that might be helpful for standard practices for dimensional metrology methods. Contact others in lasers community.	G. Eliason	3/21/2011	open
5	contact LMCO, DRS, and Raytheon regarding dimensional metrology methods.	D. Aikens	4/21/2011	Waiting on Garth
5	Contact NG Apopka regarding dimensional metrology methods.	D. Howland	4/21/2011	Waiting on Garth
5	Provide JDSU approach to metrology for dimensional methods.	G. Boulton	4/21/2011	open
5	Review collection of dimensional metrology methods and Trey's draft.	All	5/08/2011	Waiting on other action items
5	Provide revised draft of everything else.	A. Krisiloff	4/21/2011	open

8. Time and Place of next TF 2 Meeting

Charles Gaugh moved the next meeting be held at OptiFab. Donna Howland seconded. The motion passed.

9. Adjourn

C. Gaugh moved that the meeting be adjourned; M.Dowell seconded the motion, which carried unanimously. The meeting adjourned at 12:22 p.m.