

Draft Minutes  
ASC OP/TF 2 – Committee for Optics and Electro-Optical Instruments –  
Appearance Imperfections Standard Meeting (Held in conjunction with SPIE OptiFab)

May 8th, 2011  
08:30 - 12:00 EDT

Rochester Riverside Convention Center  
123 East Main St. Rochester, NY 14604  
Aqueduct Room (A/B)

**1. Welcome and Introductions**

G. Boulton opened the meeting at 08:37 EDT. He asked each person in the room to introduce him or herself. In attendance were Dave Aikens, Allen Krisiloff, Walt Czajkowski, Bill Royall, Ray Williamson, Hal Johnson, Donna Howland, and Frank Dombrowski. On the phone were Keith Snyder and Tom Ward.

**2. Adoption of Agenda**

F. Dombrowski asked if the agenda could be modified to allow him to make a demonstration as item 6. W. Royall made the motion to accept the agenda as modified, and H. Johnson seconded it. The motion carried unanimously.

**3. Approval of the Minutes to the January 23, 2011 Meeting of ASC/OP TF2.**

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

**4. Status of action items from January 2011 meeting.**

4.1 T. Turner's document has been posted on the website. The document was found to be a good starting point for an informative Annex to OP1.002. Some of the content could be considered normative, such as the number of pixels for resolution. There are some issues associated with resolution limits that may not be consistent with the body of the text, however. In the current draft, there are issues with the accumulation limits which should be reviewed.

4.2 A. Krisiloff provided an updated title and scope proposal, to be discussed later.

4.3 G. Eliason has not provided the contact info for people using dimensional scratch and dig specifications, so several actions could not be completed.

4.4 G. Boulton supplied the JDSU inspection methodology, and read it to the committee since it had not been uploaded to the website.

4.5 A. Krisiloff did not have a chance to draft a new version of the standard.

**5. Update on Army's switch to the SavvyInspector™ for calibration of Army-issued standards.**

D. Aikens reported that things were going slowly at the Army, and that they are expecting to draft a PO for Savvy Optics Corp to help draft the standard operating procedure and the language for the new revision of the standard. In the mean-time, they are proceeding with Gage R&R testing.

**6. Demonstration of Gage Line comparison standards for OP1.002.**

F. Dombrowski presented a set of comparison standards for use with OP1.002, based on the recommended layout given in the standard, as well as some interesting different layouts. It is great to see these artifacts becoming available for the general market. He also showed some ISO 14997 standards which have some distinct advantages to other standards in the market today. Finally, he showed a white on clear version of the standard, which is of particular interest since

scratches are usually evaluated in dark field, so they appear as bright objects on a clear background, very much like the white painted artifacts.

Break 09:49-10:15 EDT

## **7. Review of next draft of OP1.002, including any new Annexes.**

A. Krisiloff proposed a new title for OP1.002, "Surface, edge, and cementing imperfections of optical components." The new title removes assemblies from the scope. It also drops the term "appearance", replacing it with surface. Since the standard is also used to control cementing and edge imperfections, they should be included, too. Some people also use the standard to control bubbles and inclusions.

R. Williamson suggested we use the term localized. G. Boulton suggested "surface, edge, and internal imperfections." We want to include cemented assemblies, but not opto-mechanical assemblies such as airspaced doublet. We could define this limitation in the title or in the scope.

After much discussion, we had not chosen a title. A. Krisiloff presented his proposal for a new scope. It was edited in committee, and the following was developed:

*To be posted as a separate file.*

A. Krisiloff moved that we accept the new scope as written. D. Howland seconded, and the motion carried.

A. Krisiloff reaffirmed his intent to create a working draft by the next meeting.

T. Ward pointed out that we need to consider if the standard will include bubbles and inclusions of non-transmissive (e.g. IR) optical components.

## **8. Time and Place for next OP/TF 2 meeting.**

H. Johnson moved the next meeting be held by telecom some time in mid-July. D. Howland seconded, and the motion carried.

A. Krisiloff moved that after the call, the next meeting be held in San Diego in August. W. Czajkowski seconded, and the motion carried with two votes against.

*\*Note: We were not able to set up the conference call in July as had been hoped. After discussing with the task force leader, D. Aikens scheduled a teleconference in August, around the same time as TF4 and TF5 will be meeting. At that meeting we can discuss the next meeting date, but due to insufficient funds we will not hold a TF2 meeting in San Diego.\**

## **9. Adjourn**

W. Czajkowski moved to adjourn. A. Krisiloff seconded, and the motion carried. Meeting adjourned at 12:06 EDT.

### **Action Item Summary.**

***A. Krisiloff will set up a web-based teleconference for Mid-July.***

***A. Krisiloff will offer a new working draft in time for that meeting.***