

Draft Minutes
ASC OP/TF 2 – Committee for Optics and Electro-Optical Instruments –
Appearance Imperfections Standard Meeting

(Held by Teleconference)
August 11th, 2011, 12:00 - 16:00 EDT

1. Welcome and Introductions

Gordon Boulton opened the meeting at 12:09 EDT. On the call were Dave Aikens, Bill Royall, Frank Dombrowski, Doug Hoover, Donna Howland, Ray Williamson, and Allen Krisiloff. C. Gaugh joined at 14:30 EDT. D. Corridon joined at 15:18 EDT.

2. Adoption of Agenda

W. Royall made the motion to accept the agenda, modified to add a slot for Frank to discuss comparison standards, and A. Krisiloff seconded it. The motion carried unanimously.

3. Approval of the Minutes to the May 8, 2011 Meeting of ASC/OP TF2.

W. Royall moved that the minutes be accepted and F. Dombrowski seconded the motion. The motion carried with two abstentions.

4. Report of any new information concerning ARDEC, e.g. adoption of the SavvyInspector™ for calibration of Army standards.

D. Aikens reported that he has not heard anything since May, and is not sure what is happening at the Army, aside from a service issue when the illuminator had become unplugged, which indicates they continue to use it for certification of standards. He also mentioned that the Army has completed its GR&R study of the SavvyInspector™, and the data is being analysed by their statistician. We do not have any information on when and how the results might be released.

5. Report on dimensional comparison standard

F. Dombrowski reviewed the current offering of comparison standards for the dimensional version of OP1.002. The offering was found to be excellent, and all comments were positive. Gage-Line has already sold one of these, and has several inquiries. The samples can be purchased from Gage-Line's website, www.scratchdig.com.

6. Introduction to LinkedIn group for OEOSC.

D. Aikens reviewed the current LinkedIn group, and solicited feedback. There was general agreement that the group was a good thing, and that it could be useful to people in communications for standards. D. Aikens pointed out that we have to decide if it will be open, and therefore a vehicle to inform the community about what we are doing and a recruiting tool for participation, or if we want it to be a "members only" forum. The consensus was that it should be used for outreach, and not as an official arm of the OEOSC, due to concerns about copyright. Could look into subgroups for a members only area.

Action: D. Aikens to investigate alternatives for file sharing within the group or with a subgroup.

Action: R. Williamson to cross-post members of the OSA and SPIE groups to increase people's awareness of OEOSC.

7. OP1.002: Review of the latest draft.

A. Krisiloff introduced the concept of structure versus specification. He directed us all to a "comparison of structures" document, which will be added to the website. It became quite clear that the structure of the proposed draft 4-02 is a significant improvement over the current published version. When we got to the structural changes in going to version 5-02, there was some resistance from the committee, but that may have more to do with errors than with structure.

Break from 13:58 to 14:08

G. Boulton offered up that the definitions for area for a hemisphere are an issue, since the projected 2D aperture size is far smaller in area than the actual surface. You can even have a nose-cone shape with a much larger surface area than

the bounding clear aperture circle. These definitions need to be more clear, and yet we need to establish break-points between regular parts and more exotic ones. There was a consensus though that we could help the domes and nose cones people by allowing them to calculate an effective clear aperture rather than use the 2D projection through a note on the drawing.

G. Boulton pointed out that the wording of the scratch limit is strange. Since anything that is visible is counted as a 10, the wording needs to be changed to “scratches significantly less bright than the 10 comparison artifact shall be ignored.”

D. Aikens suggested that the same issue exists with the dig diameter that should be ignored. Most people ignore below about 25 um, based on what is visible in a normal visual inspection.

Action: D. Aikens will post the questions of ignore diameter and whether people use “closest but more visible” or “closest” in the use of the scratch standard. He will also do such a request for how people deal with sleeks.

The next section of question is the looser clear aperture. Since table 1 only goes to a #80, and the drawing C7641866 only goes to #80, it is not logical to have anything looser. The reality is that people use the Davidson 120 and the Edmund paddle 120 sometimes, but we probably need to make this more clear.

The accumulation rules for the dimensional method refers to scratch numbers, but needs to use scratch widths. But it's not quite that simple, since the specification is also a letter and needs to be converted into a width number as well.

Action: A. Krisiloff will adjust the language to be more like MIL-C-48497A.

A. Krisiloff asked that we review the structure of version 5-03, a corrected version of 5-02.

Action: A. Krisiloff will deliver the new version of 5-03 to D. Aikens who will put it, and the explanation for the new structure

Action: G. Boulton will provide a redlined version of 4-01 with typos and other errors.

8. Action Items from this meeting.

Action: D. Aikens to investigate alternatives for file sharing within the group or with a subgroup.

Action: R. Williamson to cross-post members of the OSA and SPIE groups to increase people's awareness of OEOSC.

Action: D. Aikens will post the questions of ignore diameter and whether people use “closest but more visible” or “closest” in the use of the scratch standard. He will also do such a request for how people deal with sleeks.

Action: A. Krisiloff will adjust the dimensional accumulation language to be more like MIL-C-48497A.

Action: A. Krisiloff will deliver the new version of 5-03 to D. Aikens who will put it, and the explanation for the new structure, up on the website.

Action: G. Boulton will provide a redlined version of 4-01 with typos and other errors.

9. Time and Place for next OP/TF 2 meeting.

D. Howland moved the next meeting be held by teleconference on November 10th, and C. Gaugh seconded. The motion carried.

D. Howland moved that we have a face-to-face meeting in conjunction with Photonics West. A. Krisiloff seconded, and the motion carried.

9. Adjourn

D. Aikens moved to adjourn. C. Gaugh seconded, and the motion carried. Meeting adjourned at 16:00 EDT.