

## Draft Minutes

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

February 3<sup>rd</sup>, 2013, 13:30 PST

Intercontinental Hotel, 888 Howard St., San Francisco, CA

Nob Hill Room

**Welcome and introductions** G. Boulton began the meeting at 13:33 PST with introductions. In the meeting were R. Williamson, A. Krisiloff, W. Royall, D. Aikens, M. Dowell, D. Howland, C. Gaugh, W. Czajkowski, and H. Johnson. A quorum was established.

**Approval of Agenda** D. Aikens asked that a new item be added to discuss progress on commercially available comparison standards. D. Aikens moved we approve revision 3 of the agenda, and C. Gaugh seconded. The motion carried.

**Approval of Minutes from the June Meeting** M. Dowell observed that there were two errors in the minutes. First, Jerry Fraser's name is spelled with a "J", not a "G", and second, she did not both move and second for adjournment. She recalled that Allen seconded the motion. W. Royall moved we approve the minutes as modified, M. Dowell seconded, and the motion carried. Note that while a meeting had been scheduled for August, due to some miscommunications it was not held at its planned time. While Gordon, Bill, and Allen did have a teleconference later in the month, it is not considered an official meeting of TF2.

**Status of Action Items** The group reviewed our action items.

1. D. Aikens will make a version of the drawing with both SIRA and SavvyInspector<sup>TM</sup> measurement values and reconsider to the next meeting. – **done**
2. G. Boulton find a more succinct statement on allowability of stains from the MIL stds. - **done in v9.**
3. M. Dowell to talk to Jerry Fraser about brightness standards. – **not done, carried forward.**
4. A. Krisiloff will incorporate all of the changes from the prior meetings and further comments from D. Aikens, G. Boulton, and W. Royall, and provide a new draft by the end of July. – **done, v9**
5. D. Aikens will prepare a CD for a new ISO 10110-7 for review at the next meeting. - **done**

**Status of commercially available comparison standards** D. Aikens reported that Davidson has successfully re-mastered their scratch standards and re-created the Army SOP for scratch evaluations. They are now offering a new comparison standard, D-668 for ANSI/OEOSC OP1.002 visibility inspections, using a SavvyInspector<sup>TM</sup> with the Army limit calibration files. This new standard has scratches which are compliant to the draft OEOSC Drawing C7641866 Rev A on the

website, but not in the boxed format. They will continue offering their Revision H standards, D-667, for those who need them. He also reported that C. Gaugh is no longer with Davidson, and a new liaison to OEOSC has not yet been appointed.

**Issues the need to be addressed and resolved with respect to the third edition of OP1.002.** G. Boulton reviewed the issues listed in the document by the same name. Each issue was reviewed carefully by the group and where possible, we made a decision how to proceed for the next draft.

1. Should we allow mixed notation for scratches and digs, e.g., 60-D or F-50, or not? ? – *yes, everyone agreed this would be a good idea.*
2. Should we replace references to the Army drawing with the drawing developed by Dave Aikens? – *This began an extensive discussion about how we should specify the comparison standards. D. Aikens presented a new revision of C7641866A. Arguments were heard regarding whether we should be specifying brightness, or a mechanical package, or both. The consensus of the task force was to require a specific brightness, but independent of the mechanics, by changing Annex F to normative (or moving the table to the body) and providing the drawing C7641866A as an informative example.*
3. Should we allow visibility scratches > #80, and if so how would we add them to the OEOSC drawing? – *no one was in favor of this, so it was removed.*
4. Should we apply any S-D requirements to ground surfaces outside the CA? – *no, but we need to be clear that it applies to the polished area outside the CA. We may want some visual cosmetic specification on the ground face, but this is clearly a new item that will take some time to develop. Leave it out for this revision.*
5. How should we deal with very faint or very small scratches for the scratch concentration rules of version 009 para. 3.1.4.1.3? – *the visibility cutoff in 3.1.4.1.3 should be deleted. In addition, 3.1.2.4 seems contrary to our definition.*
6. Confirm that digs beyond the CA shall not be considered when applying the accumulation formulas. (3.1.4.2.1 and footnote 16.) – *confirmed.*
7. Provide direction/resolution on footnotes 19 and 20. – *forget note 19; it is just wrong. Note 20, we should go back to the original MIL language.*
8. Provide direction that 4.2.1 overrides 4.4.4 and 4.4.5, not the other way around. – *4.4.4 and 4.4.5 are clearly identified as “additional requirements” not overriding requirements, so no further clarification is necessary.*

**Work on next draft of OP1.002, including Annex F .** We didn't have enough time to go through the document in the meeting, and we had finished all the major items in the above list. We will review G. Boulton's comments on Rev 9, and provide additional feedback to A. Krisiloff.

Action: D. Aikens to post G. Boulton's notes to the website ASAP.

Action: Committee to send A. Krisiloff comments on OP1.002 version 9 ASAP

Action: A. Krisiloff to consider comments, and provide v10 by the end of March.

**ISO standards for surface imperfection based on OP1.002** D. Aikens walked the committee through the new draft ISO standards that have been proposed. During the walk through, we saw that the figures in ISO 14997 were all messed up in the new .PDF, but not in the .DOC.

Action: D. Aikens to update the figures ASAP and get them to ISO for distribution.

Action: All members of the committee to provide detailed feedback on ISO 10110 and ISO14997 in a response to ISO by 4/15/13, using the ISO comments sheet.

#### **Action Items from this meeting**

Action: M. Dowell to talk to Jerry Fraser about brightness standards.

Action: D. Aikens to post G. Boulton's notes to the website ASAP.

Action: Committee to send A. Krisiloff comments on OP1.002 version 9 ASAP

Action: A. Krisiloff to consider comments, and provide v10 by the end of March.

Action: D. Aikens to update the figures ASAP and get them to ISO for distribution.

Action: All members of the committee to provide detailed feedback on ISO 10110 and ISO14997 in a response to ISO by 4/15/13, using the ISO comments sheet.

**Time and place for the next meeting** D. Aikens suggested a conference call in May. M. Dowell moved that we schedule it for Tuesday, May 7<sup>th</sup> at 11:00 PDT. D. Aikens seconded and the motion carried.

**Adjourn.** H. Johnson moved we adjourn, and D. Howland seconded. The motion carried and we adjourned 17:27.