

## Draft Minutes v2

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

Monday, August 11, 2014

11:00 - 13:00 EDT

(08:00 - 10:00 PDT)

Teleconference Call

(866) 576-7975, participation code 305866

#### **1. Welcome and Introductions**

Gordon Boulton called the meeting to order at 11:02 EDT. In attendance were Dave Aikens, Bill Royall, Chris Svec, Donna Howland, Allen Krisiloff, Doug Wilgis, Trey Turner, Charles Gaugh, and Ray Williamson. Quorum was established.

#### **2. Approval of the agenda**

Bill Royall motioned to accept the corrected agenda, with the correction of Rolling Hills to Rolling Meadows (v2). The motion was seconded by Chris Svec and the motion passed.

#### **3. Approval of the minutes for the April meeting**

Allen Krisiloff moved that we accept the corrected version (v2) of the minutes. Ray Williamson seconded, and the motion carried.

#### **4. Project leader's and Northrop/Rolling Meadows' efforts to resolve comments submitted with "No" vote on OP1.002 draft vsn 18**

Gordon Boulton reported that, after the last meeting and the revision of the draft to accommodate TF2 comments, we received a ballot from Northrop Grumman Corporation-Rolling Meadows (NGC/RM) with an emphatic "No" vote and extensive comments. Rather than proceed, we decided to suspend the TF level ballot of OP1.002 to address NGC's concerns. He also explained that, while many of the comments were perhaps reasonable, pointing out where our efforts to make the standard more clear may have actually made it less clear. But many of the comments were due to John Hamilton being out of the loop for the past three years, specifically on all the successes we have had with standardizing the comparison standards with the SavvyInspector™.

Allen Krisiloff reported that he has talked with John Hamilton and made some great progress in getting clarifications on many of his concerns, but not all. Since then, Donna Howland and Chris Svec of NGC have reviewed John Hamilton's concerns and comments with him.

Chris Svec pointed out the table 2 of dig visibility was all subjective, and not really where we want to be going with this standard. He also pointed out that, if we are going to use OP1.002 as a simplified version of MIL-PRF-13830B, we would need some kind of buy-in from Mark Lindenbaum of Picatinny Arsenal.

Allen Krisiloff pointed out that the Army does not currently intend to withdraw MIL-PRF-13830B. Dave Aikens suggested that we might be able to get a letter from Mark Lindenbaum approving OP1.002 as an interpretation of MIL-PRF-13830B for scratch and dig.

We discussed the dig specification which is a primary sticking point right now. Chris Svec reported that NGC currently measures all digs and reports the dig number as the diameter in 1/100's of mm. He also explained that they explicitly identify on their drawing that the scratch number is the width in um's. Their scratch interpretation is a documented exception from MIL-PRF-13830B, while they believe their interpretation of the dig spec is in conformance with the MIL. The current version of OP1.002 is in conflict with this interpretation.

Allen Krisiloff explained that we have always intended for OP1.002 to be different from MIL-PRF-13830B.

Gordon Boulton suggested that we should go back to the language we used in the 2009 edition for digs, to remove the conflict.

Ray Williamson observed that scratch numbers have been visibility, while dig numbers have always been dimensional. Why are we trying to change that? Didn't we do it just to make the standard symmetric, so that there are letters for dimensional specifications and numbers are visibility specifications?

Allen Krisiloff agreed that the plan was to make two different standards; a visibility standard and a dimensional standard. So if we want to be consistent with the MIL, we need to have digs be dimensional.

Gordon Boulton pointed out that the scratch and dig numbers do not allow measurement with a microscope, so they are different.

Allen Krisiloff asked, so what do we change? Ray suggested we change the language used to describe the visibility system to be the numerical system. Gordon Boulton pointed out that table 2 was not intended to define the digs, but to provide the designer the meaning of the digs.

Gordon Boulton suggested that we use the language suggested by Dave regarding "apparent size". Bill reiterated that many people currently do a visibility inspection by comparing the visibility of the dig to the comparison standard, and measure only in case of conflict.

Dave Aikens suggested that we could change the table 2 to be the apparent size, in units of mm, and delete the following paragraph which begins “The dig number really has NO dimensional units...”

Allen Krisiloff expressed concern that we need to think this through, and review the document carefully to make sure we don't fix one thing and messing up something else.

Chris Svec said that making John Hamilton happy should not be a priority. Dave Aikens pointed out that, until everyone is happy, we do not have complete consensus. Chris Svec and Donna Howland offered that they will go back and chat with John Hamilton. Allen Krisiloff offered to join the discussion if that was useful.

Dave Aikens offered to see if the Army would like to meet with us to discuss the project. Allen Krisiloff offered that he would like to go along. Northrop would like to attend, but would need to figure out who can get travel approved.

#### **5. Any other new business and action items**

Dave Aikens offered that he has done some research regarding illumination and irradiance. He will send it out before the next meeting.

Charles Gaugh asked if we were going to discuss the “topics for future editions.” Gordon Boulton explained that, given the issues with the current revision, we will postpone discussions of new revisions for a couple of meetings.

#### **6. Time and place for next meeting**

Bill Royall moved that we next meet by teleconference on October 28 at 11:00 Eastern Time. Chris Svec seconded, and the motion carried.

#### **7. Adjourn**

At 12:48, Allen Krisiloff moved we adjourn. Chris Svec seconded, and the motion carried.