

## **W1.1 Image Quality of Printers**

NCITS W1.1 2001 – 0024

Gloss and Gloss Uniformity

Yee S. Ng, April 3, 2001

Ref:

1. NCITS – W1.1 2001-0020 Gloss/Gloss Uniformity ad hoc teleconference meeting notes (3/13/2001 teleconference), March 13, 2001.

### **Gloss/gloss uniformity ad hoc Teleconference Meeting Notes**

(3/27/2001 teleconference)

Present: Yee Ng (NexPress), Jeff Wang (NexPress), Ted Bouk (Kodak), Norman Burningham (HP), Eric Schneider (HP)

Next Teleconference: Tuesday April 17, 2001 @ 12:30 AM EST

#### **Agenda**

1. Review/modify agenda
2. Discuss measurement method and test target definition.
3. Schedule next teleconference

The Gloss/gloss uniformity ad hoc met on 3/27/2001 and the ad hoc approved the agenda that was sent earlier in NCITS-W1.1 2001-0020. The ad hoc examines the interlab correlation gloss target (requested by the ad hoc and prepared by NexPress) that was sent out earlier (the layout of this target is attached below as layout\_notes.pdf). NexPress has verified the target by printing electrophotographic images on a commercial printer using a low gloss media (G60 value of 3.7) with image gloss ranging from 3.2 to ~40 (G60). Kodak has verified the target by testing on a thermal dye transfer printer using higher gloss media (media G60 value of ~71).

The following comments were made:

- (a) It may be better to reduce the size of the target to below 8"x10" since some 8x10 printer requires a margin (TB). So it is agreed that in the next version of the target, we will take that into consideration.
- (b) The % coverage of the density patches are not randomized on the page (from a color separation viewpoint), and it may cause problem for some printers (such as inking problem for inkjet, toner depletion problem for EP) (NB). So it is agreed that in the next version of the target, we will randomize the patches on the target.
- (c) The current file of the target is in CMYK color space and it may better to use a base target using color space in sRGB format (TB). So the ad hoc agreed to make that change in the next version of the target.
- (d) The ad hoc feels that the color patches' maximum coverage of 300% and their % coverage distributions as well as the number of patches on the target are reasonable for us to start the interlab gloss measurement task.
- (e) The ad hoc also feels that even with some limitation to the current test target, we should not wait for the completion of the updated test target to start the interlab gloss measurement task. So we shall proceed to use the current target on the interlab gloss

measurement test. Then use the first set of measured result to refine the next version of the test target.

- (f) From a media gloss selection viewpoint, the ad hoc thinks that we should pick a limited # of paper (with different gloss value) to start the test. The criteria of the paper selection are as follow: (1) the type of paper (or its equivalent) selected should be widely available worldwide, (2) the typical gloss of the papers should be around (4, 15, 40, >70 G60 units). (3) Jeff Wang is charged with recommending the suitable type (and #) of paper for the lower gloss media (G60 value of ~4, 15, 40) and Ted Bouk is charged with identifying a higher gloss media to use. The target date for the recommendation is April 10, 2001.
- (g) In the mean time, the ad hoc can print out the test target and do preliminary measurement on the gloss target with different gloss measurement geometry. The test images can be circulated to other laboratories to have a preliminary interlab correlation done. The ad hoc agreed to discuss the preliminary result in the next teleconference that has been changed to April 17.
- (h) Yee Ng will look into the ATT Teleconferencing to make the teleconferencing easier to use.

Next teleconference: Tuesday, April 17, 2001 @12:30 AM EST

#### Proposed agenda for April 17, 2001

1. Review/modify agenda
2. Discuss measurement method and test target results.
3. Schedule next teleconference

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