

**ASTM SUBCOMMITTEE E17.52**  
**On**  
**TRAFFIC MONITORING DEVICES**  
Minutes of December 8, 2004, Meeting  
Omni Shoreham Hotel – Washington, D.C.

**CALL TO ORDER**

The meeting was called to order at 8:00 a.m. by Chair, Luz Elena Y. Mimbela. The following were present:

Members

Perry Kent  
Clyde Lee  
Mary Ann Dierckman  
Dan Inabnitt  
Glenda Fuller  
Andrew P. Nichols (new member)

Also present at the Tuesday task group meeting were Ralph Gillmann, David Jones, and Larry Klein in addition to those mentioned above.

**MINUTES**

Minutes of the June 16, 2004 meeting were approved as amended. The correction to the June 16, 2004 minutes was as follows: in the second to the last sentence of the status report for the Pneumatic Road Tube task group, the reference to the volume number for the ASTM annual book of ASTM Standards should be volume 4.03 (not 5.03).

**TASK GROUP REPORTS**

E17.52.97.1 – Test Methods (Chairman - John Hamrick)

The Test Methods task group met on Tuesday, December 7, 2004 and discussed new “Standard Specification for Purchase of Highway Traffic Monitoring Devices.” A draft of this standard was prepared by Dr. Larry Klein and circulated to the group. During the task group meeting members discussed the action items needed in order to incorporate changes to the standard that were needed prior to balloting. These action items included the following:

- Take out the word “Purchase” from title, since in the Scope section of the standard it would be mentioned that one of the uses of this specification is for “purchasing of TMDs.”
- Delete Table 4 and references in the text and include a statement that gives examples for tolerances (e.g.  $\pm 1\%$ ,  $\pm 5\%$ ,  $\pm 1\text{mph}$ , etc.) and for percent conformance (e.g. 90%, 95%, etc.). Also include examples in section 5.3 for calculating tolerances (either percent or

absolute) and percent conformance.

- Replace references to “purchaser” with “user” in the standard.
- Rename section 6 as “Type Approval,” instead of “Certification” and include a statement in the section that the vendor shall certify that the TMD has passed the applicable Type approval test.
- Discussed John Hamrick’s comments on not including TMD outputs that are a result of post processing. The group decided that for some TMDs such as radar the output is lane occupancy.

Plans are to submit a draft standard specification that incorporates the changes named previously to all active members of the E17.52 subcommittee for informal review and comment prior to submitting for ballot. Plans are to submit the standard specification for concurrent subcommittee/main committee ballot prior to the June 2005 meeting.

#### E17.52.98.2 - Piezo Sensor (Dan Inabnitt, Chairman)

The group discussed the comments and negative vote received on the balloted standard practice for piezoelectric sensors titled “Standard Practice for Installing Piezoelectric Highway Traffic Sensors.” A negative vote plus comments were received from Richard B. Rogers. Other comments were received from Ralph Gillmann, and James McQuirt. The negative from Richard Rogers dealt with assigning an absolute number to the level of rutting that a roadway should have prior to installing piezoelectric sensors. Also, included in the negative was the suggestion to use video rather than manual counts to verify the piezoelectric sensor was working properly. After considerable discussion the group decided that the amount of rutting should not be defined by an absolute number since the standard is only a practice and a prescribed limit for rutting does not exist either from vendors or users. The comment about using video rather than manual counts to verify that the sensor is working properly was also considered non-persuasive since the standard is a guideline and manual counts are adequate. The negative by Richard Rogers was found non-persuasive by unanimous vote of the seven members present at the Wednesday subcommittee meeting. The following are the action items that resulted from most of the comments received on the balloted with the exception of some comments that were found non-persuasive by the group:

- In section 4.1.3 replace “less than 2 percent” with “2 percent or less.”
- In section 4.2.3.5 replace “look for contact points” with “determine contact points.”
- Delete 4.1.5 and include it as 4.1.4(d).
- Add statement to 4.2.18 to ensure grout is fully cured before grinding and opening up the lane to traffic.
- In section 4.2.1 replace “extreme heat or cold” with “heat, cold, and moisture conditions.”

The main committee accepted the recommendations of the subcommittee regarding the non-

persuasive negative vote. Therefore, the standard will be submitted to Dan Smith as a final for society review and final printing once the previous changes are made. No further balloting is necessary.

#### E17.52.01.1 – Axle Count Adjustment Factors (Perry Kent, Chairman)

Perry Kent distributed the latest version of the standard titled “Standard Practice for Developing Axle Count Adjustment Factors.” This version included many changes made to address the negative votes and comments received when the standard was balloted in March 2003.

Plans are to submit the revised standard for concurrent subcommittee/main committee ballot prior to the June 2005 meeting.

#### E17.52.01.2 – Loop Sensor (Ryan Gidluck, Chairman)

There was no progress made on this draft standard since Ryan Gidluck resigned as chairman due to his leaving IRD. Perry Kent volunteered to continue the development of this standard and Larry Klein will assist.

### **OLD BUSINESS**

Ralph Gillmann and Perry Kent have compiled address lists from the current and previous NATMEC vendor participants to give to Dan for sending out invitation letters for participating in the ASTM E17.52 standard development process. Plans are to go through the lists and pick out active vendors and give Dan Smith a consolidated list for sending out invitation letters.

### **FUTURE MEETINGS**

June 12-15, 2005 – Reno, NV

December 4-7, 2005 – Dallas, TX

### **ADJOURNMENT**

The meeting was adjourned at 10:30 am.