

**ASTM SUBCOMMITTEE E17.52**  
**On**  
**TRAFFIC MONITORING DEVICES**  
Minutes of June 16, 2004, Meeting  
Westin Crown Center –Kansas City, Missouri

**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  
John Hamrick  
Clyde Lee  
Mary Ann Dierckman  
Dan Inabnitt  
Glenda Fuller

**MINUTES**

Minutes of the December 10, 2003 meeting were approved as written.

**TASK GROUP REPORTS**

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

The Test Methods task group met on Tuesday, June 15, 2003 and discussed the fate of the “Standard Specification and Test Methods for Highway Traffic Monitoring Devices.” A draft of this standard was balloted in May 2003 and received several negative votes, which caused the group to withdraw the standard from ballot until the recommendations made were addressed. 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 once more. These action items included the following:

- The task group will separate the draft into a specification to be used for the purchase of new equipment and the corresponding test method.
- For the classification specification the task group suggested that a specification be written to simply test if the classifier can accurately measure number of axles and spacing between axles.
- Take out terms regarding calculations from basic data (e.g. lane occupancy).
- Need to bring standard in conformance to ASTM “Blue Book” rules and guidelines for a specification standard to be used for the purchase of new equipment.

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 the December 2004 meeting.

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

Dan Inabnitt led a discussion on 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 Dennis Kroeger. Other comments were received from Clyde Lee, Glenda Fuller, German J. Claros, and Larry Klein. Clyde Lee made numerous revisions to the balloted standard prior to the meeting and addressed most of the comments. The following are the action items that resulted from most of the comments received on the balloted version that were not addressed by Clyde Lee’s revisions with the exception of some comments that were found non-persuasive by the group:

- Section 4.1.4 item “c” will read “Adequate drainage to prevent standing water in the splice boxes and instrument cabinet.”
- Add a comment directly before or after section 4.2.3.4 on testing the sensor (signal, etc.) prior to installing in the cleaned slot.
- Take out last sentence in section 4.2.15 and take out “and into the grout.”
- In section 4.2.17 reword sentence pertaining to insuring that top of finished grout surface should not be below the road surface.
- Add a comment in section 4.2.18 about removing any fixtures after “remove the tape...”
- At the end of section 4.2.20 add the sentence “Use additional grout or sealant to fill lead wire slots completely to the edge of the pavement.”

Comments on specifying pavement thickness and strength were considered non persuasive since these depend on sensor type (e.g. brass linguini, Kistler, etc.) and knowledge of existing pavement properties. Plans are to make the above changes to the latest draft and submit for main committee ballot prior to the December 2004 meeting.

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

Perry Kent led a discussion on the comments and negative votes received on the balloted standard titled “Standard Practice for Developing Axle Count Adjustment Factors.” Negative votes plus comments were received from James McQuirt Jr., Clyde Lee, and Erland Lukanen. Other comments were received from Lawrence Hart, Michael Dagleish, and Ralph Gillmann. Clyde Lee made numerous revisions to the balloted standard prior to the meeting and addressed most of the comments and his negative vote as well. The following are the action items that resulted from most of the comments received on the balloted version that were not addressed by Clyde Lee’s revisions with the exception of some comments that were found non-persuasive by the group:

- Comment on terminology consistency with other E17.52 standards, namely E1957-98 (Road Tube standard) was addressed by Clyde Lee’s revisions.

- Comment to change “functional classification” in section 3.1.4 as defined in the FHWA publication Highway Functional Classification: Concepts, Criteria, and Procedures, March 1989, was found non persuasive since the referenced document is specific and the existing definition is generic, which the group felt was appropriate for this standard.
- The revised version of this standard will include a reference to the Traffic Monitoring Guide (TMG) as per suggestion from Erland Lukanen.
- As per ASTM Standards Form and Style Manual (Blue Book) the use of “and/or” is prohibited, thus the recommendation to use this in section 3.1.9 was non persuasive.
- The recommendation to add “(rounded)” to the last column header in Table 1 was not considered necessary since it is understood that a vehicle cannot have a partial axle.

Plans are to make the above changes to the latest draft and submit for main committee ballot prior to the December 2004 meeting.

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

There was no progress made on this draft standard since Ryan Gidluck was not present at the meetings in Kansas City, Missouri.

E17.52.92.2 - Pneumatic Road Tube (Perry Kent - Chairman)

The existing standard practice titled, ”Standard Practice for Installing and Using Pneumatic Tubes with Roadway Traffic Counters and Classifiers” was revised and submitted for concurrent subcommittee/main committee ballot in May 2004. Comments on the balloted item were received from the following: Georgene Geary, Dennis Kroeger, Emmanuel Owusu-Antwi, Lawrence Klein, Kai Tam, and Glenda Fuller. Most of the comments were addressed by Perry Kent in the revision submitted for publishing in the newest Annual Book ASTM Standards Volume 5.03. Comments not addressed in the 2004 version will be discussed during the December 2004 meeting.

**OLD BUSINESS**

Perry Kent and other VDC personnel volunteered to compile an address list 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.

**FUTURE MEETINGS**

December 5-8, 2004 – Washington, DC

June 12-15, 2005 – Reno, NV

December 4-7, 2005 – Dallas, TX

**ADJOURNMENT**

The meeting was adjourned at 10:30 am.