

**ASTM SUBCOMMITTEE E17.52**  
**on**  
**TRAFFIC MONITORING DEVICES**  
Minutes of December 10, 2003, Meeting  
Tampa Marriot Waterside –Tampa, Florida

**CALL TO ORDER**

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

<u>Members</u>	<u>Non-Members</u>
Perry Kent	Dave Gardner
John Hamrick	
Clyde Lee	
Rudi Schoenmackers	
Mary Ann Dierckman (Task Group Meeting only)	
Ralph Gillmann	
Ryan Gidluck	
Dan Inabnitt	
Glenda Fuller	

**MINUTES**

Minutes of the June 18, 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, December 9, 2003 and discussed the fate of the “Standard Specification and Test Methods for Highway Traffic Monitoring Devices.” The latest 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 further notice. The main causes for concern in the last draft of this standard were that the specification and test method were not clearly defined as separate entities, the inappropriateness of the statistics specified for the specification portion, and the many exceptions from the standard included. The task group 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 finish up the specification portion of the standard and submit to a statistician for review to determine what level or form of statistics need to be specified.
- 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.
- Need to simplify verbage for test method portion, think of using a bulleted list, etc.

- Need to bring standard in conformance to ASTM “Blue Book” rules and guidelines for a performance Type specification standard.

Plans are to submit a revised version of this draft standard that incorporates the changes named previously to all active members of the E17.52 subcommittee for review and comment.

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

Dan Inabnitt, new task group chairman, led a review and comment session on the latest draft (July 2003) of the standard practice titled “Standard Practice for Installing Piezoelectric and Quartz Highway Traffic Sensors.” Several comments were made. The following is a list of the major action items that the task group discussed:

- Include a general comment or statement in the “scope” relating to how piezos are used.
- Include a small section in the verification section (4.3.1) that resembles the verification procedure in the road tube standard.
- Change section 4.2.3.1 on the width of the cut to include depth also and leave as per recommendation from the manufacturer.
- Suggested including a comment on testing the sensor signal prior to bringing the epoxy level up to the roadway surface after section 4.2.10, and 4.2.16.
- Include a recommendation about taking steps to insure no voids are present under the sensor especially with viscous grouts in section 4.2.12. For example, pour grout first or insure grout is at proper temperature for low viscosity.

Plans are to send the next draft for informal subcommittee review, solicit and address comments and submit to Dan Smith for subcommittee ballot prior to the June 2004 meeting.

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

The group discussed the draft titled “Standard Practice for Estimating Vehicle Counts from Single Axle Counts,” which was distributed by Perry Kent during the meeting. The following are discussion items and responses from the group:

- Discussed whether total number of axles raw data and their spacings could be used to determine axle correction factors rather than number of vehicles in each of the 13 FHWA classes plus other two for unclassified and not classified. This could be another method of calculating axle correction factors.
- Discussed the validity of developing axle count adjustment factors by the day of week, by month, and by quarter as recommended in section 4.6. Is this possible or when would this be applicable? Also, is this done already with seasonal adjustment factors for ADT?

Perry Kent will distribute a revised draft for informal subcommittee review and comment. Plans are to submit a revised version of the distributed draft for the next balloting process via subcommittee ballot.

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

Ryan Gidluck led a review and comment session on the latest draft titled “Standard Practice/Guide for the Installation of Loop Detectors.” The following are several of the items discussed:

- Discussed inclusion of the installation of other shape loops (e.g. round, etc.). Ryan commented that these were special cases that were typically described by vendors installing these. However, the task group decided to include examples of these cases and refer to the “Detector Handbook” for more details.
- Perry commented on weak point in loop where pavement and shoulder material connect. The task group decided to include a section on typical ways to address this.
- Brand names in Tables 5-1 and 5-2 for some of the materials will be deleted to conform with ASTM rules.

Plans are to send a revised version of the draft for subcommittee review and comment prior to the next meeting in June.

### 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” is up for review after five years of being in place. Therefore, Perry Kent led a review and comment session on any changes needed for the standard.

Plans are to distribute the revised standard to subcommittee members for further informal review and comment and then submit for concurrent subcommittee/main committee ballot prior to the June 2004 meeting.

### **OLD BUSINESS**

The group agreed to ask Dan to send out an invitation letter to vendors for participating in the ASTM E17.52 standard development process. Ralph volunteered to compile an address list from the current and previous NATMEC vendor participants to give to Dan for sending out the invitation letters.

### **FUTURE MEETINGS**

June 13-16, 2004 – Kansas City, MO

December 5-8, 2004 – Washington, DC

June 12-15, 2005 – Reno, NV

### **ADJOURNMENT**

The meeting was adjourned at 10:30 am.