

ASTM SUBCOMMITTEE E17.52
on
TRAFFIC MONITORING DEVICES
Minutes of December 11, 2002, Meeting
Fontainebleau – Miami Beach, 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:

Members

Perry Kent
John Hamrick
Clyde Lee
Jerry Legg
Rudi Schoenmackers
Mike Dalglish
Mary Ann Dierckman
Erland O. Lukanen

Non-Members

Glenda Fuller
George Cepress
Tim Thex (Task group meeting only)
Daniel Drake (Task group meeting only)

MINUTES

Minutes of the June 26, 2002 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 10, 2002 and discussed the latest draft of the “Standard Specification and Test Methods for Highway Traffic Monitoring Devices.” Prior to the meeting comments were received from the following people: Mike Dalglish, Paul Stein, Dan Manor, and John Hamrick. Larry Klein had addressed most of the comments from Paul Stein, Dan Manor, and Mike Dalglish prior to the meeting and made several changes to the draft standard where necessary. However, some of the comments from these people and others present at the meeting needed input from the group and these are detailed below along with the group’s suggestions:

- ?? Discussed including a less than 1% tolerance in Table 4. Decided that most states wouldn’t need this and if they did then an exception can be made at the time of testing.
- ?? Consider not having too many suggestions for exceptions from the standard, since then vendors will not be able to conform to a standard.
- ?? Discussed adding a function subcategory in Table 1 to include classification by loop signature. However, the group decided not to include this wording since it is technology specific. Therefore, the consensus was to add “axle configuration” to function

subcategory B1 and to data descriptor 4 in Table 2.

- ?? Discussed an alternate method for obtaining speed reference values stated in section 7.2.7.4. Suggestions for alternate methods to radar gun are based on whether the test site is to be permanent or temporary. Suggestion to add “or alternate method agreed upon by user and vendor.” Mike Dagleish and Clyde Lee will add wording to include alternate methods to section 7.2.7.4.
- ?? Would like to see something addressing communication standards between traffic monitoring devices and downloading data from these devices. The group decided this was not within the scope of this standard.
- ?? Lighting conditions user requirement applies to only some TMDs not all, thus some members of the group suggested to eliminate section 6.3 and let the user and vendor decide. Also, section 6.5 includes lighting thus change 6.5 to say Environmental Conditions and add lighting somewhere in 6.5 for consistency with 6.3.
- ?? Comment on Table 5, how does it relate to section 5 on Performance Requirements (statistics)? Group discussed the need for Table 5 and decided it was there for guidance to help the user and the vendor obtain required number of samples. Group decided to simplify section 5 and possibly delete Table 5.
- ?? Discussed comment on volume measurement per 7.2.7.3; need to include text on straddling. Mike Dagleish volunteered to add wording to this section to cover straddling.
- ?? Section 5 titled “Performance Standards” needs to be reduced considerably and do the following: 1) Recommend a 95% confidence interval and take out text describing how to calculate confidence interval, 2) Include text of random sample size and example in an appendix; similar to the October 4, 2002 version except add an example in an appendix.

Plans are to submit a revised version of this draft standard that incorporates all the changes discussed previously for concurrent subcommittee/main committee ballot during the next balloting process.

E17.52.98.2 - Piezo Sensor (Perry Kent, Chairman)

Perry Kent led a review and comment session on the latest draft (July 2002) of the standard practice titled “Standard Practice for Installing Piezoelectric and Quartz Highway Traffic Sensors.” Several editorial comments were made. Plans are to address comments and circulate a new version of the draft to all present at the December 10, 2002 task group 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 July 24, 2002 version (Draft #2) of “Standard Practice for Developing Axle

Count Adjustment Factors.” Use axle count adjustment factor consistently rather than axle count correction factor.

- ?? Include class 14 data but not class 15 data unless it is a certain percentage of the traffic and it is verified. Might want to include a comment to examine data or equipment once a certain threshold is reached of class 15 vehicles. The threshold will be user defined.
- ?? George Cepress (MNDOT) made comments on what an axle count adjustment factor is and how it is used. Perry will add text to clarify this and add an example in appendix. Consider deleting reference to FHWA 13 classes as the only option and adding a reference to other user specified class scheme.
- ?? Comment on Section 4.5 about why both month and quarter are included? These are only suggestions of what has been used before and not all inclusive or exclusive.

Plans are to submit a revised version of the distributed draft for the next balloting process via concurrent subcommittee and main committee ballot.

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

Ryan Gidluck was not present at the December 2002 meeting to report on the status of this task group. Plans are to get in touch with Ryan and see if he has made any progress on this standard and see if he will still be able to work on this standard. Since the meeting Ryan has expressed an interest in continuing to develop a draft standard practice for installing loop detectors and said he would have a draft by the June 2003 meeting in Denver.

OLD BUSINESS

During the June 2002 meeting Dan Smith volunteered to send an Email to State DOT personnel that would include an invitation to join ASTM and E17.52. This action was deemed necessary by the group to make users aware of the standards developed by the ASTM E17.52 Subcommittee on Traffic Monitoring Devices.

Therefore, in November 2002, Dan developed and sent out a letter to State DOT personnel via Email that included an invitation to join ASTM and E17.52 along with a list of all the standards E17.52 has developed and is currently developing. At least a dozen responses have been received to date from people interested in participating as members or non-members in the standards development efforts of E17.52. On behalf of E7.52, “Thank you Dan!”

FUTURE MEETINGS

June 15-18, 2003 – Denver, CO
December 7-10, 2003 – Tampa, FL
June 13-16, 2004 – Kansas City, MO

ADJOURNMENT

The meeting was adjourned at 10:30 am.