

ASTM SUBCOMMITTEE E17.52
on
TRAFFIC MONITORING DEVICES
Minutes of June 26, 2001, Meeting
Norfolk Waterside Marriot - Norfolk, Virginia

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
Larry Klein
Jerry Legg
Ryan Gidluck
Ralph Gillmann (Task Group Mtg. only)
Dan Smith

Non-members

Glenda Fuller
Mary Ann Dierckman (Task Group Mtg. only)

MINUTES

Minutes of the December 5, 2000 meeting were approved as written.

TASK GROUP REPORTS

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

During the June 25th Task Group meeting, the group discussed the need for the standard specification titled "Standard Specification for Pneumatic Tubing for Roadway Traffic Monitoring Devices." Upon discussion, the group came to the unfortunate conclusion that the use of this standard would be minimal since pneumatic road tube users abide by the specifications used by the vendor and/or manufacturer. Furthermore, it was decided that most users of pneumatic road tube would not go through the elaborate testing methods that would be specified in the standard specification due to time and budget constraints. Therefore, the subcommittee members decided to abandon plans to continue the development of this standard and as a result Task Group E17.52.92.2 was disbanded.

On behalf of E17.52 subcommittee, thanks to Perry Kent and Clyde Lee for their hard work on this specification and thanks to Perry Kent for the successful development of the Standard Practice for Using Pneumatic Road Tubing for Roadway Traffic Counters and Classifiers, E1957-98.

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

During the December 5, 2000 meeting in Orlando, Florida, the Test Methods task group decided to develop a specification and test method standard rather than just a standard test method. Therefore, during the December 5, 2000 meeting Larry Klein volunteered to lead the

development of the specification portion of the draft. During the June 25th Task Group meetings Larry Klein distributed his draft titled "Standard Specification and Test Methods for Highway Traffic Monitoring Devices." The group reviewed the draft and comments were made on the following: 1) definitions and terminology, 2) composite error (tolerance), and 3) reference (ground truth).

The definitions and terminology were reviewed and checked against E867, which is the Terminology Relating to Vehicle-Pavement Systems standard. Larry Klein will make the necessary corrections to the draft to insure the terminology is consistent with E867.

During the task group meeting, the group decided to refer to tolerance instead of composite error to refer to the deviation from the reference value of the equipment being tested for conformance to the specification. However, the group agreed that the information on composite error is useful and decided to move it to an appendix section with non-mandatory information.

The group discussed the selection of the technology to use for reference (ground truth) and decided on a combination of video and manual for counts and classification, radar gun for speed monitoring and others to be determined for occupancy, etc.

The group discussed progress made on the following action items that were identified during the December 5, 2000 meeting to continue with the development of the specification:

- Define functions – Larry Klein and John Hamrick
- Develop matrix of functions – Ralph Gillmann
- Collect performance requirements - All
- Mention applications – Ralph Gillmann

The first two items and the last item have been completed. Progress has been made on the third item with the collection of some performance requirements to use as reference in the development of this standard. The matrix of functions developed by Ralph Gillmann is found in attachment 1.

E17.52.97.4 - Revamp E1572 - 93 (Chairman - John Hamrick)

The group decided to ballot E1572 - 93, which is the "Standard Practice for Classifying Highway Vehicles from Known Axle Count and Spacing" for reapproval during the next balloting process. This action will provide feedback to the group on the use of this standard and other changes that may be necessary. In reference to the C⁺⁺ program developed by Idaho Department of Transportation (DOT), Glenda Fuller of the Idaho DOT was present at the June 26th subcommittee meeting and volunteered to send the program to John Hamrick and Luz Elena Mimbela for use in the revised standard. However, the standard will be submitted for reapproval with the old Fortran program, since the only difference between the old and new programs is the programming language used.

E17.52.97.3 - Traffic Device Interconnect (Chairman - Peter Keen)

Peter Keen dropped out as a member of ASTM due to a change in employment status. Therefore, no status report was given on the activities of the DCM Workgroup. Plans are to contact Rick Stalowski, DCM Workgroup chair, to request a status report for the December 2001 meeting to be held in Dallas, Texas.

E17.52.98.2 - Piezo Sensor (Bill McCall, Chairman)

Piezo sensor task group chairmain, Bill McCall was not present to give a status report on this task group.

E17.52.98.3 - Revamp of E1318 (Perry Kent, Chairman)

Further revisions of the "Standard Specification for Highway Weigh-in-Motion (WIM) Systems with User Requirements and Test Method" were submitted for subcommittee ballot during the April-May 2001 balloting process. The ballot received a negative vote from Ralph Gillmann and from J. C. Wambold. Ralph Gillmann's negative dealt with a revision made to section 5.9 on ESALs. Specifically, Ralph felt that even though correct, the revisions would confuse the users of the standard and may no longer accept the standard. Therefore, Clyde Lee made further revisions to the standard to address Ralph Gillmann's negative and Ralph withdrew his negative. J. C. Wambold's negative dealt with minor changes needed to make the standard an international standard. Clyde Lee made the changes to address Mr. Wambold's negative and the negative was withdrawn. Plans are submit the revised E1318-00 for concurrent subcommittee and main committee ballot during the next balloting process.

NEW BUSINESS

The following two new task groups were formed:

- E17.52.01.1 – Axle Adjustment Factors (Perry Kent – Chairman). This task group will be in charge of developing a stadard practice for making adjustments on vehicle counts to single “axle” sensors.
- E17.52.01.2 – Loop Sensor (Ryan Gidluck – Chairman). This task group will be in charge of developing a standard practice for using and installing inductive loop sensors.

FUTURE MEETINGS

December 2-5, 2001 – Dallas, TX

June 23-26, 2002 – Salt Lake City, UT

December 8-11, 2002 – Miami Beach, FL

June 15-18, 2003 – Denver, CO

ADJOURNMENT

The meeting was adjourned at 12:00 pm.