

ASTM SUBCOMMITTEE E17.52
on
TRAFFIC MONITORING DEVICES
Minutes of December 4, 2001, Meeting
Hyatt Regency - Dallas, Texas

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
Larry Klein
Jerry Legg
Ryan Gidluck
Ralph Gillmann
Dan Smith
Rudi Schoenmackers

MINUTES

Minutes of the June 26, 2001 meeting were approved as written.

TASK GROUP REPORTS

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

During the December 3rd Task Group meetings Larry Klein distributed a revised draft of the “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) tolerance, and 3) reference value .

The definitions and terminology were reviewed once again 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 that the Traffic Monitoring Devices (TMDs) standard will categorize TMDs by types based on tolerance. Therefore, Table 4 will be renamed “Tolerances for Traffic Monitoring Devices,” and will include Type 1, Type 2 and Type 3 with tolerances of 1%, 5%, and 10%, respectively. Also, these tolerances were arbitrarily chosen to allow use of the standard as soon as it is developed. However, these tolerances will be modified once enough data is gathered from the users of this standard.

The group discussed the following items pertaining to the acquisition of reference values: 1) add sample size as well as time interval in Table 5, 2) delete vehicle density parameter since a TMD

cannot measure density, 3) for speed monitoring include radar or some other means acceptable to the user (e.g. two axle counters), and 4) take out reference to National Institute of Standards and Technology (NIST) Handbook 44.

Other minor editorial revisions were discussed. Dr. Larry Klein will make the necessary revisions to address the comments on the draft. Plans are to submit the revised draft for ballot at the subcommittee level in January 2002 and at the subcommittee level in March 2002.

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

The ballot for reapproval of E1572 - 93, which is the "Standard Practice for Classifying Highway Vehicles from Known Axle Count and Spacing" received a negative from John Hamrick. The negative was considered persuasive, which resulted in E1572-93 not being reapproved. Therefore, this standard will be omitted from the 2002 Annual Book of ASTM Standards Vol. 4.03 and the E17.52.97.4 task group will disband.

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

Les Vickers will be replacing Peter Keen as PEEK's representative in E17.52 and thus as the chairman for the Traffic Device Interconnect Task Group. Mr. Vickers was unable to attend the December 4, 2001 meeting due to other travel commitments. As per Rick Stalowski, the first complete draft of the DCM standard has been accepted by the Joint NTCIP Committee for user comment and may be sent out for user comment sometime in January or February. The DCM working group is planning to meet sometime in April to discuss user comments received on the first DCM draft.

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

Bill McCall has stepped down as chairman of the Piezo sensor task group. Perry Kent volunteered as Piezo Sensor task group chairman. Plans are to develop a draft standard practice for using and installing piezoelectric sensors for traffic monitoring applications by the June 2002 meeting.

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 fall 2001 balloting process. The ballot received a negative vote from Richard B. Rogers due to concerns regarding section 5.9 on ESALs. Specifically, mentioning the error on the ESAL calculation in the referenced AASHTO Pavement Design Guides, and the inclusion of the term "dual-tire axles." Dr. Clyde Lee made editorial changes to address Mr. Rogers' negative and the negative was withdrawn. Also, Dr. Lee will make further editorial revisions to the standard to address comments received from Georgene Geary. Since the revisions require editorial changes only, E1318-00 does not need to be resubmitted for ballot. The revised standard will be published in the 2002 edition of the Annual Book of ASTM Standards Vol. 4.03.

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

The group discussed action items needed to begin development of the "Standard Practice for

Estimating Vehicle Counts from Single Axle Counts.” Perry Kent will begin collecting information from different states on how they estimate vehicle counts from single axle counts currently. Once this information is compiled, the task group will develop the standard practice based on the procedure that is most commonly and effectively used.

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

The scope of this task group was defined to include the development of a standard practice for the design and installation of inductive loop sensors used for traffic monitoring data collection. The group developed the following action items and individual(s) responsible to move the development of this standard forward:

- Collect information from States on what is currently being done, All;
- Obtain States’ information on loop sensors from Turner Fairbanks, Larry Klein;
- Obtain North Dakota’s specification for loop installation, Jeff Patten;
- Obtain West Virginia’s specification for loop installation, Jerry Legg;
- Obtain Anaheim, California’s specification for loop installation, Larry Klein

Plans are to collect the above information and send it to Ryan by March 2002.

NEW BUSINESS

The group discussed extensively the fate of past, present and future standards developed by E17.52. Specifically, how to get the standards out to the users. The following ideas were discussed: 1) refer to standards in the FHWA’s Traffic Monitoring Guide (TMG), and 2) have FHWA purchase copies of respective standards from ASTM and distribute to traffic monitoring field people. The group felt very strongly that if steps were not taken to make the users aware of these standards, the standards would all suffer the same fate of several standards developed by E17.52, which was to delete them from the books due to their not being used.

Another new business item discussed was the need to spread the word out to vendors that they are welcome and needed as active participants in E17.52. The group members present agreed to inform those vendors they come in contact with about E17.52 activities.

FUTURE MEETINGS

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.