LOG OF MEETING
DIRECTORATE FOR ENGINEERING SCIENCES

SUBJECT: Meetings of ASTM Subcommittee F08.53 Headgear Task Groups

DATE OF MEETING: December 8-9, 1994 **PLACE:** Phoenix, AZ

LOG ENTRY SOURCE: Scott Heh, ESME

DATE OF ENTRY: January 18, 1995

COMMISSION ATTENDEES: Scott Heh, ESME

NON-COMMISSION ATTENDEES: Available upon receipt of meeting minutes.

SUMMARY OF MEETING

This log summarizes F08.53 Headgear Subcommittee task group meetings for revising the Headgear Standard Test Method Standard F 1446 and the Bicycle Headgear Performance Specification Standard F 1447. It also summarizes meetings of task groups that are developing performance standards for infant/toddler bicycle headgear and headgear positional stability (roll-off). The following action items were agreed upon by subcommittee members.

Negative votes on a sub/main committee ballot item to change to metallic headforms and variable mass drop assemblies were found persuasive. There was general agreement that metallic headforms should be used instead of the epoxy headforms currently in use. However, there was considerable disagreement on whether variable drop assembly masses should be specified. The item will be reballoted to only make the change to metallic headforms. The headform task group will continue to work on the drop assembly mass issue.

A task group was assigned to come up with a revision of the wet conditioning environment for the next sub/main committee ballot. There is general agreement that water immersion from 4 to 24 hours is too severe and not representative of real world conditions.

A revision to scale the dimensions of extent of coverage lines in accordance with headform size will be drafted for the next sub/main committee ballot.

The roll-off test that was mistakenly left off of the last ballot will be placed on the next sub/main committee ballot.

The infant/toddler helmet task group reported that they would like to specify a low mass (3.1 kg) drop assembly for testing infant/toddler helmets. However, this low mass poses technical challenges with currently existing equipment. The task

group is exploring options such as 1) specifying a drop frame mass that is significantly lower than those currently in use, 2) specifying a "pendulum arm" impact rig, or 3) specifying a true free-fall "basket" impact test rig with a triaxial accelerometer.

A revision to include recreational skating in the scope and title of the current ASTM bicycle helmet standard will be balloted on the next subcommittee ballot.

The subcommittee decided to defer work on a multi-activity helmet standard and focus instead on the development of an infant/toddler helmet standard.

cc: John Preston, ESME
Colin Church, EXHR
Greg Rodgers, ECSS
Frank Vitaliti, LSEL
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