

LOG OF MEETING

DIRECTORATE FOR ENGINEERING SCIENCES

SUBJECT: Voluntary Standards Meeting to Discuss Possible Debris Penetration Test Methods for Off-Highway Vehicles (OHVs)

DATE OF MEETING: June 7, 2022, 1 PM Eastern Time

PLACE OF MEETING: Outdoor Power Equipment Institute (OPEI) Headquarters, Alexandria, Virginia

LOG ENTRY SOURCE: Han Lim, Engineering Sciences, Division of Mechanical and Combustion Engineering (ESMC)

CPSC ATTENDEES: Han Lim, Caroleene Paul, Fred DeGrano

NON-COMMISSION ATTENDEES: Contact OPEI for the attendee list

SUMMARY OF MEETING:

CPSC staff participated in a voluntary standards meeting with members of the Outdoor Power Equipment Institute (OPEI) and the Recreational Off-Highway Vehicle Association (ROHVA). These standards development organizations (SDOs) represent interests for standards development of utility vehicles (UTVs) and recreational off-highway vehicles (ROVs).

OPEI staff presented a proposed test method to evaluate the strength properties of ROV/UTV floorboards against debris penetration. The test method consists of dropping an 80 lb mass (36 kg) with a 2-inch diameter wooden dowel impactor onto a test sample from a height of 1 meter. The test sample is the forward-facing wheel well/floorboard portion of the vehicle and dowel impact is normal to the test surface. The proposed pass/fail criteria is no more than 1-inch penetration of the dowel into the occupant space. OPEI and ROHVA members consider this test to be repeatable, more severe than an angled impact of the test surface, and equivalent to a 10 mph impact.

CPSC staff and the OPEI/ROHVA members discussed technical aspects of the drop test method. Two members stated the proposed test will require increasing the integrity of the wheel well/floorboard areas of certain vehicle models.

OPEI intends to:

- finalize the draft proposal for performance requirements to address debris penetration hazards,
- combine the debris penetration requirements with draft requirements that have already been developed to address fire hazards, and

- send the combined draft proposed requirements out for pre-ballot review within 3 to 4 weeks.

CPSC staff encouraged the SDOs to provide supporting test data when submitting the proposed drop test method for review.

Next Steps: CPSC staff will evaluate the draft proposal during pre-ballot review.