

**LOG OF MEETING  
DIRECTORATE FOR ENGINEERING SCIENCES**

SUBJECT: Recreational Off-Highway Vehicles (ROVs) – Meeting requested by the Recreational Off-Highway Vehicle Association (ROHVA) to discuss their progress in developing voluntary standard requirements that address occupant protection and vehicle stability.

DATE OF MEETING: December 15, 2010

PLACE OF MEETING: U.S. Consumer Product Safety Commission, Bethesda, MD

LOG ENTRY SOURCE: Caroleene Paul, ESME *CP*

COMMISSION ATTENDEES: See attached attendance list

NON-COMMISSION ATTENDEES: See attached attendance list

SUMMARY OF MEETING:

Representatives of the Recreational Off-Highway Vehicle Association (ROHVA) met with CPSC staff to discuss ROHVA's progress in developing voluntary standard requirements that address occupant protection and vehicle stability.

CPSC staff opened the meeting by setting the following ground rules:

- ROHVA requested this meeting with CPSC staff so, although the meeting was public, discussions were limited to ROHVA representatives and CPSC staff/representatives.
- The opinions or views expressed by CPSC staff were not reviewed or approved by the Commission and may not reflect the views of the Commission.
- The discussions during the meeting will be treated as comments to the ongoing rulemaking and will become part of the public record.

ROHVA representatives presented an overview of their approach to addressing occupant protection in ROVs, their position on static and dynamic vehicle testing as it applies to ROVs, and revisions they have made to labeling requirements. Presentations were made by ROHVA, Dynamic Research Inc. (DRI), and Applied Safety and Ergonomics Inc. (see attached presentation).

The following points were made regarding occupant protection:

- The voluntary standard will introduce four Zones of protection with design and/or performance requirements:
  - Zone 1 – Leg/Foot area will require a 4 inch high (from the floor) barrier that must withstand a 50 lbf outward force and have no opening greater than 3 inches in diameter.
  - Zone 2 – Shoulder/Hip area will require a barrier that withstands a 100 lbf outward force or the ROV shall pass a 45 degree tilt of the vehicle with a seat



lead to tripped rollovers (berms from dirt build-up or ruts or any number of other off-road terrain features).

- CPSC staff asked if all the vehicles ROHVA tested passed the RRR test. ROHVA replied that all passed. CPSC staff asked if any ROVs on the market would fail the RRR test. DRI declined to reply.
- CPSC staff asked if more test data to support ROHVA's proposals will be received when the ballot for revisions to the voluntary standard is sent to canvass members. ROHVA replied yes.

The following points were made regarding ROV labeling requirements:

- Applied Safety and Ergonomics gave a presentation on labeling requirements and development work they did to revise the labeling requirements for ROVs. Their effort included ROV accident analysis and analysis of driver behavior during focus groups where drivers completed a closed loop driving course.
- CPSC staff asked for a copy of the full report on the focus group work.

ROHVA reviewed the progress of an ROV E-course that is available online. A hands-on course is under development and estimated to be completed by the end of the summer.

ROHVA summarized that over the course of two years of meetings and exchanges with CPSC staff, ROHVA has tried to meet CPSC's challenges. ROHVA believes they have achieved this through their efforts with training, labeling, dynamic testing, and occupant protection testing.

MEETING ATTENDANCE RECORD  
ROHVA / CPSC Staff – December 15, 2010

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