GTB Mirror Working Group SAE

Status Update

Presented to GRE69 – April 2013
Introduction

Dialogue between SAE Lighting Systems Group and NHTSA

Catalyst

- January 2012 Driving Vision News Workshop
  - Participation from 140 Lighting Industry specialists, including NHTSA
  - Industry and NHTSA’s mutual interest in technical discussions around vehicle lighting
Dialogue between SAE Lighting Systems Group and NHTSA

Scope: “A forum for dialogue between NHTSA and the SAE Lighting Committee for discussion of vehicle lighting topics of mutual interest”

SAE Regulatory Cooperation Task Force
   Established – April 2012
   Chairman: Mike Larsen
   Vice-Chairman: Stephan Berlitz

GTB established Mirror Group working with SAE
   Established – May 2012
   Chairman: Stephan Berlitz
   Vice-Chairman: Gary King

Cooperation of global vehicle lighting experts to prepare for meeting
SAE – NHTSA Dialogue

Meeting Date – April 2, 2013

Meeting format:

- Executive Overview
  - Target audience – General NHTSA Staff
  - Duration 1.5 h

- In-depth Technical Exchange
  - Working meeting with NHTSA Staff
  - Duration 1.5 h
  - 1st of a series

Include vehicle and table-top demonstrations
SAE – NHTSA Dialogue – 2 April 2013

Agenda – Executive Overview

Review of Headlighting Development during FMVSS108 Lifespan

Headlighting: Safety Requirements

Recent Trends in Lighting Technology
  a. US
  b. ECE

Meeting is intended as information sharing with NHTSA
Review of new headlighting technologies (AFS/ADB)

System:
AFS, Adaptive Frontlighting System, Adaptive Forward Lighting System, Intelligent Lighting, Smart Lighting, Smart Beam, IntellaBeam, AFLS …

System Functions:
Bending Light, Curve Light, Town Light, City Light, Motorway Light, Adaptive Driving Beam, Adaptive Main Beam, Glare Free High Beam, Semi Automatic Beam Switching, Marker Light …

System Execution:
Vertical Cutoff Control, Horizontal Cutoff Control, Matrix Beam, Projector …
SAE – NHTSA Dialogue – 2 April 2013

Agenda – Technical Exchange

Working Meeting

Attendees: SAE, NHTSA + WRTC (test lab)

Topics:

- Review Prioritized List of Differences between FMVSS 108 and ECE
  - “Major requirement differences that drive design differences between FMVSS and ECE”
- Initial discussion on Intelligent Lighting (AFS, ADB, Marker light, etc.)
  - ECE approach to Adaptive Driving Beam (ADB)
    - Requirements on ADB
    - Test procedure
Next Steps

Review meeting outcome

- SAE TF (Savannah, April 2013)
- GTB MWG SAE (Stockholm, May 2013)
Thank you for your attention