

Transmitted by the expert from GTB

Informal document **GRE-69-39**
(69th GRE, 8-11 April 2013,
agenda item 17 (b))

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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

SAE – NHTSA Executive Overview 2 April 2013

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)
 - a. Requirements on ADB
 - b. Test procedure

Next Steps

Review meeting outcome

- SAE TF (Savannah, April 2013)
- GTB MWG SAE (Stockholm, May 2013)

Thank you for your attention

G T B

*The International Automotive Lighting
and Light Signalling Expert Group*

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