

Alliance Member companies

①

BMW Group **GM** General Motors

TOYOTA

   **MITSUBISHI MOTORS**

MAZDA   **CHRYSLER**

PORSCHE

 |  Mercedes-Benz

 25 June 2009

Automakers Recommend

②

- Allow performance standard alternative
- Adopt ABSORBING standard in lieu of REFLECTIVE
- Technology review in 2012
- If REFLECTIVE
 - 4 year phase of Tier I standard (50% Tts)
 - 4 year phase-in of Tier II standard, as appropriate
- Increase rooflite standard from 30 to 40%
- Provide Exemptions
 - Plastic Windows (PC and collapsible)
 - Vehicles that do not produce CO₂ (ZEVs)
- Authorize staff to adopt technical changes in 15-Day notice

25 Jun 2009

Vehicle Performance Standard

3

- Goal – interior temperature
- ARB successful with vehicle performance standards
 - Catalytic converter or vehicle exhaust?
- Innovation
- Windshield standard vs. interior temperature

Allow EO to approve other methods that achieve the same reductions

6/25/2009

Proposed Standard (Reflective) Issues

4

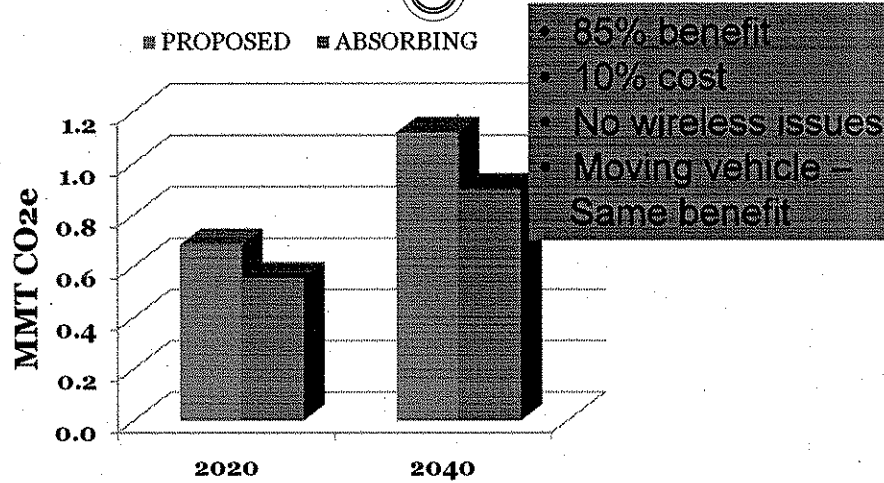
- Metal Oxide reduces wireless signal strength
- Cell Phones coverage reduced
- Portable GPS coverage reduced
- FasTrak Electronic Toll Booth internal will not work
- Tire Pressure Monitoring System (TPMS)

6/25/2009

Proposed vs. Absorbing*

*All values from ARB ISOR, Appendix B, Table B-7, Page B-14

5



6/25/2009

IF Reflective Recommendation

6

- Reflective requires review of
 - Every wireless system
 - Every vehicle
 - One year...simply not enough time
- **If reflective we recommend:**
 - **4 year phase-in of Tier I standard**
 - **Phase-in of Tier II standard**

6/25/2009

Rooflite

7

- Proposed standard (30% Tts) = only 5% visible light
- Effectively no “sun” roof
- Manufacturers unlikely to offer sunroofs in CA

Recommend 40% Tts = Similar benefits, but maintains sunroofs in CA

6/25/2009

Exemptions

8

- **Plastics**
 - Polycarbonate
 - Collapsible windows
 - Lower weight reduces CO₂ every mile of driving not just in the warm days
- **Zero Emission Vehicles**

6/25/2009



Thank You



AUTO ALLIANCE

DRIVING INNOVATION®

www.autoalliance.org