

Fuel Cell Summit VII

May 28-29, 2003

ISO TC22 SC21

IEC TC105 WG-6

WP-29

Activities, Updates & Lessons
Learned-Next Steps

ISO TC22

- IEC/TC 69 International Administrative Secretariat
- IEC/TC 69 US TAG
- IEC/TC 69 WG4US TAG
- IEC/CISPR/D/WG 2 Protection of On-board and Adjacent Receivers
- ISO/ISO/TC 20 Aircraft and Space Vehicles
- IECISO/ISO/TC 22 U.S.A.G
- ISO/ISO/TC 22/SC 1
- ISO/ISO/TC 22/SC 2 USAG
- ISO/ISO/TC 22/SC 2/WG 3 Brake Fluid & Rel Materials
- ISO/ISO/TC 22/SC 2/WG 3 USAG
- ISO/ISO/TC 22/SC 2/WG 6 Brake Performance

ISO TC22

- ISO/ISO/TC 22/SC 3 USAG
- ISO/TC 22/SC 3/WG 1 USAG
- ISO/TC 22/SC 3/WG 3 USAG
- ISO/TC 22/SC 3/WG 4 Low Tension Cables
- ISO/TC 22/SC 3/WG 4 USAG
- ISO/TC 22/SC 3/WG 5 Circuit Breakers
- ISO/TC 22/SC 3/WG 5 USAG
- ISO/TC 22/SC 3/WG 6 USAG
- ISO/TC 22/SC 3/WG 7 USAG
- ISO/TC 22/SC 3 WG 9 USAG
- ISO/TC 22/SC 3/WG 10 USAG
- ISO/TC 22/SC 3/WG 11 USAG
- ISO/TC 22/SC 3 WG 13 USAG
- ISO/TC 22/SC 5
- ISO/TC 22/SC 7
- ISO/TC 22/SC 10 Impact Test Procedures
- ISO/TC 22/SC 10 WG3 Out of Posit. Air bags
- ISO/TC 22/SC 10 US TAG
- ISO/TC 22/SC10/WG 2, & 3 US TAG
- ISO/TC 22/SC 11 Glazing Materials
- ISO/TC 22/SC 11 U.S.A.G
- ISO/TC 22/SC 12 US TAG
- ISO/TC 22/SC 12/WG 3, 5, 6, 7 US TAG
- ISO/TC 22/SC 12 WG 5 Anthropomorphic Test Device

ISO TC22

- ISO/TC 22 SC 13 Ergonomics applicable to road vehicles
- ISO/TC 22/SC 13/WG 3 Localization of Controls and Telltails
- ISO/TC 22/SC 13/WG 5 Symbols
- ISO/TC 22/SC 13/WG 7 Hand Reach & R and H Point Determination
- ISO/TC 22/SC 13/WG 8 US TAG Traffic Engrg Sys/Human Factors & Man/ Machine Interface
- ISO/TC 22/SC 19 Wheels
- ISO/TC 22/SC 19/WG 3 Ratings of Use
- ISO/TC 22/SC 19 USAG
- ISO/TC 22/SC 20 USAG
- ISO/TC 22 SC 20 Identification of Vehicle
- ISO/TC 22/SC 21 US TAG Electric Vehicle
- ISO/TC 22/SC 25/WG 1, Refueling Connector

ISO TC22 SC21

- WG-1
 - Safety
- WG-2 Terminology
 - TF-1 FCV Performance
 - TF-2 Terminology Definitions Glossary
 - TF-3 Hybrid Vehicle Performance

Safety

- **Four Parts**

- **Part 1: Vehicle functional safety**
- **Part 2: Fuel cell system integration**
- **Part 3: Protection against hydrogen hazards**
- **Part 4: Protection of persons against electric hazards**

SAE J-2578

- Incorporated into SC21 documents
- Very little incorporated into the actual documents
- Significant amount included as annex
- USTAG's next steps...w/US Industry (SAE) ?

IEC TC105 WG-6

- SAE J-2579 as foundation document
- Working closely with ISO TC22 SC21 concerning integration of fuel cell within vehicle

WP-29

- GRPE
 - Liquid
 - Gas
- Using 1958 Agreement
 - Stated intent to eventually roll into GTR

ORGANIZATION OF WP.29

UNITED NATIONS
ECONOMIC COMMISSION FOR EUROPE
UN/ECE

INLAND TRANSPORT COMMITTEE (ITC)

WORLD FORUM FOR HARMONIZATION
OF VEHICLE REGULATIONS (WP.29)

GRPE

Working Party on
Pollution and Energy

GRSG

Working Party on
General Safety
Provisions

GRRF

Working Party on
Brakes and
Running Gear

GRE

Working Party on
Lighting and
Light-Signalling

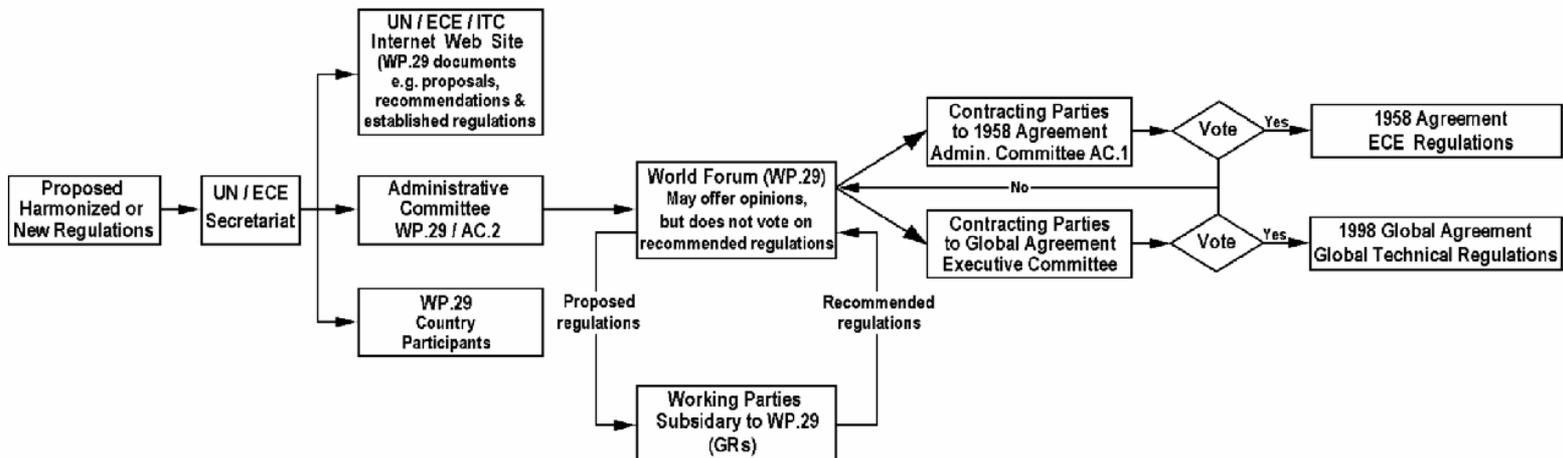
GRB

Working Party on
Noise

GRSP

Working Party on
Passive Safety

Development of Regulations



EHHP-2 Targets

1. **A legal framework must lead to planning reliability for car and component manufacturers as soon as possible**
2. **Legal requirements and Standards should be on a global basis i.e. GTR's and ISO**

EU/Japanese Cooperation

- History of other technologies
- Impact of UN established regulations on regional SDOs
 - Regional Markets
 - Forecast growth market regions
 - China
 - India
 - Indonesia

Joint US (NA, PanAm) Strategy

- USTAG
 - OEM
 - Tier I
 - FCV Specific Suppliers
- Approach to EU/Japan collaboration
- Partnership w/Govt (regulatory bodies, support agencies, others)

Joint US (NA, PanAm) Strategy

- US Fuel Cell Council-Transportation Working Group Assessment/Position Paper
 - Interface w/US Govt Regulatory Agencies
 - Advocacy
- SAE Technical Industry Forum

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