

# NATIONAL ASSOCIATION OF STATE FIRE MARSHALS

- Senior state fire protection, law enforcement and insurance officials
- Elected, appointed
- Statutory authority may include code enforcement, responder safety training, firefighter certifications, investigations, data, hazmats, public education
- Broad view of public policy



# NASFM and USDOT

*“Are emergency responders willing to calm public fears?”*

- Gas and liquid pipelines?
- Liquefied natural gas terminals?
- Hazmats road and rail?
- Alternative energy sources?

*“We have a clean slate.”*

*“Can we build public confidence as we move from fossil fuels to hydrogen and other alternative fuels?”*



# DIMENSIONS OF A PUBLIC SAFETY INFRASTRUCTURE FOR ALTERNATIVE FUELS

- What we know:
  - 800,000 motor carrier hazardous materials shipments on U.S. roads every day – most are motor fuels
  - More than half of 20,328 hazardous materials transportation incidents reported in the U.S. in 2006 involved flammable-combustible liquid
  - No change in key factors: weather, road condition, driver error, etc.
- How will we train and equip 1.2 million firefighters and 800,000 law enforcement officers about the risks of hybrids, ethanol and other biofuels, and hydrogen?



# DIMENSIONS OF A PUBLIC SAFETY INFRASTRUCTURE FOR ALTERNATIVE FUELS

- How many filling stations in the U.S. with alternative fuels? How soon?
- How many are operating under conditional permits?
- Must we treat alternative fuels as “new uses?”
- How will alternative fuels/feedstocks get to stations?
- Codes and standards?
- How will we train and equip an estimated 150,000 building and fire code enforcement officials in >30,000 jurisdictions?



# DEVIL IN THE DETAILS:

## *The On-going Saga of E-85 dispensing units*

- UL suspends listing of E-85 dispensing units in October 2006 and comes under intense political pressure.
- UL initiates work on ‘provisional’ classifications for use by end of 2007 to be followed by standards development under ANSI rules.
- But what is the meaning of a ‘provisional’ listing?
  - Recognized by states?
  - Recognized by OSHA?
  - Sufficient for legal defense?
  - Anti-trust protection?
- What else are we missing?
- Can we avoid the same mistakes with hydrogen?





- **3-year trial sponsored by USDOT and NASFM**
- **Challenge:** Can people who have never met each other design and manage the most important economic, environmental and social transition in US history?
- **Leaders and experts came to the table**
  - Auto, energy, technology and insurance
  - Federal and state regulators and agencies
  - Emergency responders
  - Scientists
  - Public interest groups
- **We achieved ANSI certification**
  - As a tool if needed
  - For ‘placeholder’ standards and guidance



# HELP

Hydrogen Executive Leadership Panel

<b>Project Areas</b>	<b>Initial Status</b>
Responder Safety Training	Outline of curriculum, nothing more
Codes and Standards	Proposals withdrawn
Data collection and analysis	Plans to address auto and mass transit fires
Public education	No agreement





Hydrogen Executive Leadership Panel

Project Areas	But then ...
Responder Safety Training	Using HELP to <i>review, guide and distribute</i> , not create training materials ...
Codes and Standards	Using HELP to educate code officials on interpretation of codes, not submit proposals
Data collection and analysis	Using HELP to mobilize fire departments to help collect incident data
Public education	Offering public safety officials as spokespersons





# LESSONS LEARNED

- **Transition can't succeed if safety becomes an issue.**
- **Need for cooperation and coordination is clear.**
- **Name is confusing:** It's about more than hydrogen.
- **We were not always welcome:** Some stakeholders viewed HELP as a competitor for resources and a duplication of effort.
- **We had it backwards:** NASFM and USDOT created HELP so stakeholders could serve our agenda – the value came when HELP served stakeholders.



# WHERE SHOULD WE GO FROM HERE?

- **Should we become a service?**
  - Help connect the dots
  - Outreach to emergency responders and code officials
  - Cooperative data collection
  - Interim concepts for permitting
- **Should we change our structure and membership?**
- **Should we remain with USDOT or be independent and, if so, how should we be funded in the future?**
- **Should we continue at all?**

