

NHA Hydrogen Safety Codes and Standards Workshop

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Association

February 26, 2002

02/24/02

Our sponsors:

ChevronTexaco

**U.S. Department of
Energy, Office of Power
Technologies**

NHA Membership

- ✓ Over 70 Members
- ✓ Diverse Membership
 - Large Companies
 - Small Businesses
 - Universities, Institutes, National Labs
- ✓ Dedicated to commercializing hydrogen-related energy systems

NHA C&S Process

- ✓ Identify areas where codes and standards for the safe use of hydrogen energy systems are needed
- ✓ Determine if adequate codes and standards exist
- ✓ Identify other stakeholder and expertise
- ✓ Develop new draft standards through the NHA, only when the work is needed but not being accomplished elsewhere in a timely way.

NHA C&S Process

- ✓ Poll membership for Hydrogen C&S Issues perceived as a need in the 2-5 year time-frame
- ✓ Identify other entities which may be stakeholders
- ✓ Rank C&S issues based on highest need, interest from members, and requiring NHA lead or coordination
- ✓ Based on funding, work on those items with the highest ranking
- ✓ Utilize support from members, other C&S organizations, and other identified experts to develop a draft document
- ✓ Advance the draft through a larger standard organization, such as NFPA, ISO, etc.

Organizations working on Hydrogen Codes and Standards

- ✓ National Hydrogen Association
- ✓ ISO TC 197
- ✓ IEC TC 105
- ✓ SAE Safety and Interface working groups
- ✓ Underwriters Laboratory - sensors and hydrogen generators
- ✓ ICC Ad Hoc Committee on Hydrogen Gas
- ✓ HTAP Safety Committee
- ✓ DOE/NREL/NHA Coordination
- ✓ CGA
- ✓ ISA

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ISO/TC-197 Standards - NHA Involvement

- ✓ Category D liaison with ISO TC 197
- ✓ Chair of the U.S. Technical Advisory Group for ISO TC 197
- ✓ Permanent editing committee for ISO TC 197
- ✓ Propose New Work Items
- ✓ Involve members