

Technical Resources



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- **Technical Resources**
 - **Hydrogen & Fuel Cell Safety Report**
 - **Regulators Guides**
 - **US Model Codes**
 - **CaFCP**
 - **Hydrogen Executive Leadership Panel (HELP)**
 - **International Efforts**
 - **More Information**

Safety Report

- **Hydrogen & Fuel Cell Safety Report**
 - **An online resource for the National Hydrogen & Fuel Cells Codes & Standards Coordinating Committee**
 - Includes minutes of teleconferences and in-person meetings, with attachments/presentations
 - **Monthly electronic publication**
 - Latest Issue
 - Archives – search engine
 - Documents for Review
 - Technical Resources and Calendar of C&S meetings
 - <http://www.hydrogenandfuelcellsafety.info>
 - Sign-up for automatic e-mail notification

Regulators Guides

- **Regulators' Guide to Permitting Hydrogen Technologies**
 - **Overview**
 - **Module 1 - Permitting Stationary Fuel Cell Installations**
 - **Module 2 - Permitting Hydrogen Motor Fuel Dispensing Facilities**
 - http://www.pnl.gov/fuelcells/permit_guide.stm

US Model Codes

- **ICC**

- www.iccsafe.org

- **Ad Hoc Committee on Hydrogen Gas**

- www.iccsafe.org/cs/cc/h2g/index.html

- **NFPA**

- www.NFPA.org

- **Hydrogen Coordinating Group**

- www.NFPA.org/ecommittee/HCGroup/HCGroup.asp

CaFCP

■ **Technical Resources**

- CaFCP commissioned studies
- Emergency response materials
 - First Responder Training
 - Emergency Response Guide
 - Additional training materials in development
- Fuel Cell Transit Bus Coordination and Evaluation Plan
- California fuel station and demonstration program map
- How a fuel cell works - animation

■ **Technical Fact Sheets**

- Hydrogen Station Test Apparatus
- Hydrogen Quality Sampling Adapter

■ **Organizational Resources**

- CaFCP general presentation - coming soon
- CaFCP brochures
- CaFCP fact sheets
- CaFCP images and videos
- www.fuelcellpartnership.org

Hydrogen Executive Leadership Panel (HELP)

- **THE NATIONAL ASSOCIATION OF STATE FIRE MARSHALLS HYDROGEN EXECUTIVE LEADERSHIP PANEL'S (HELP) FIRST ANNUAL SAFETY SUMMIT**
 - **The First Annual Safety Summit was conducted on 3-4 October in Detroit at NEXTENERGY. This is a joint effort of DOT and state Fire Marshals.**
 - **addressing the tough questions – managing risks, public perceptions, safety community perceptions, etc.**
 - **This was a good first step in the development of a national training program and education material for the long term.**
 - **The purpose is to get needed information out there so Emergency Responders have what they need to make decisions.**
 - **DOE is involved with creating curriculum.**
 - **The website is being updated – and the workshop results will be posted soon. www.nasfmhydrogen.com.**
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International Efforts

- **APEC Countries are updating the Sourcebook for Hydrogen Applications to include valuable regulatory, codes, and standards information on hydrogen energy projects in APEC countries.**
 - The Sourcebook is available at www.TISEC.com
- **The European Hydrogen Association**
- **The UK is developing a guideline for installation of hydrogen fuel cells**
- **The EU has a program called HySafe that seeks to create a database of hydrogen incidents.**
 - The main objective of the HySafe network is to strengthen, integrate and focus fragmented research efforts to provide a basis that will allow removal of safety-related barriers to implementation of hydrogen as an energy carrier. In this way the network will also contribute to promoting public awareness and trust in hydrogen technology within Europe by providing a basis for communicating the risks associated with hydrogen.
 - See www.HySAFE.org

More Information

- Monthly electronic Hydrogen Safety Newsletter – The Hydrogen & Fuel Cell Safety Report – www.HydrogenandFuelCellSafety.info
- User-Friendly Codes and Standards Matrix – www.fuelcellstandards.com
- Workshop Proceedings
- Plans for next NHA C&S Workshop
- hallk@hydrogenassociation.org

NHA Website

- **Links to Safety Report, conference site**
- **Fact Sheets**
- **Breaking News**
- **General Information**
- **Media/Press**
- **Hydrogen Policy**
- **Members Only pages for working documents, contact info, committee drafts**
- **....and much more**
- **www.hydrogenassociation.org**

NHA's 2006 Annual Conference

- March 12-16, 2006
 - Long Beach, CA
 - Venue – The Long Beach Convention Center
 - Hotel – Hyatt Regency Long Beach
 - Technical sessions, workshops, side meetings
 - www.hydrogenconference.org

Thanks!

- National Hydrogen Association websites:
 - www.hydrogenassociation.org
 - www.hydrogenconference.org
 - www.hydrogenandfuelcellsafety.info

