

Overview of the Hydrogen Safety Panel (HSP)

Objectives

- Provide expertise and recommendations and assist with identifying safety-related technical data gaps, best practices and lessons learned.
- Help integrate safety planning into funded projects to ensure that all projects address and incorporate hydrogen and related safety practices.

Activities

- Review safety plans for H₂ facilities and projects
- Participate in H₂ project design reviews
- Engage project teams through onsite safety reviews
- Identify safety knowledge gaps
- Support fact-finding from incidents and events

Accomplishments

- Over 400 project reviews covering vehicle fueling stations, auxiliary power, backup power, combined heat and power, industrial truck fueling, portable power and R&D activities.
- White papers with recommendations recently include:
 - Secondary Protection for 70MPa Fueling
 - Safety of Hydrogen Systems Installed in Outdoor Enclosures
- Supported development/updating of safety knowledge tools: “h2tools/lessons”, “h2bestpractices.org” and Hydrogen Tools, an iPhone/iPad app.
- Conducted 20 Hydrogen Safety Panel meetings since 2003. Panel meetings currently engage a broad cross-section of the hydrogen and fuel cell community.

Name	Affiliation
Nick Barilo, Manager	Pacific Northwest National Laboratory
Bill Fort, Chair	Consultant
David Farese	Air Products and Chemicals
Larry Fluer	Fluer, Inc.
Donald Frikken	Becht Engineering
Aaron Harris	Air Liquide
Richard Kallman	City of Santa Fe Springs, CA
Chris LaFleur	Sandia National Laboratories
Miguel Maes	NASA-JSC White Sands Test Facility
Steve Mathison	Honda Motor Company
Larry Moulthrop	Proton OnSite
Glenn Scheffler	GWS Solutions of Tolland
Steven Weiner	Pacific Northwest National Laboratory
Robert Zalosh	Firexplo

HSP Facts

- Formed in 2003 to support U.S. DOE Hydrogen and Fuel Cells Program
- 400+ years of experience, representing many hydrogen sectors and technical areas of expertise
- Includes committee members from NFPA 2 and 55, and technical committees of ASME, SAE and ISO
- Contributes to peer-reviewed literature on hydrogen safety
- Presents at national and international forums