

Hydrogen Safety Review Panel Utilizing a Wealth of Experience

Steven C. Weiner, Panel Coordinator
Addison Bain, Chair

Hydrogen and Fuel Cells Summit VIII
Coral Gables, FL
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Hydrogen Safety Program Goal

Develop and implement the practices and procedures that will ensure safety in the operation, handling, and use of hydrogen and hydrogen systems for all DOE-funded projects

- *Assemble panel of experts in hydrogen safety (2004)*
- *Integrate safety procedures into all DOE project funding procurements (2005)*
- *Publish handbook of Best Management Practices for Safety (2010)*

Ref: HFCIT Program Review Meeting, Philadelphia, PA, May 24-27, 2004

Hydrogen Safety Review Panel...

“...which will review all supported projects, make recommendations, propose alternatives or state the need for additional analysis or reviews.”

“...will provide an independent assessment to funded groups, and will provide prototype documents for principal investigators to use as templates for their own risk assessment and mitigation.”

Ref: HFCIT Multi-Year Program Plan, July 3, 2003

Getting Started in FY2004

- ▶ Form Hydrogen Safety Review Panel and hold first meeting in December 2003
- ▶ Form small teams and review projects selected by DOE technology managers
- ▶ Develop template for gathering safety-related information about current projects
- ▶ Serve as reviewers for HFCIT program review meeting (Philadelphia, PA, May 24-27, 2004)
- ▶ Review *Guidance for Safety Aspects of Proposed Hydrogen Projects* and provide revision/recommendations to DOE
- ▶ Develop Panel operating practices, protocol for project reviews, and criteria for project selection

Hydrogen Safety Review Panel

Addison Bain, Chair	NASA (ret.)
Carol Bailey	Sentech
Harold Beeson	NASA White Sands
Bill Doerr	FM Global Research
Don Frikken	Becht Engineering
Jim Hansel	Air Products and Chemicals
Richard Kallman	City of Santa Fe Springs, CA
Harold Phillippi	ExxonMobil Research and Engineering
Jesse Schneider	DaimlerChrysler
Rody Stephenson	Jet Propulsion Laboratory (ret.)
Bob Zalosh	Worcester Polytechnic Institute

The Panel Adding Value

- ▶ DOE review meeting in Philadelphia provided an opportunity for the Panel to become closely familiar with all aspects of the program.
- ▶ Site visits allow sharing of experiences, ideas and potential problem areas with the PI in real-time, re: hydrogen-related and other associated hazards.
- ▶ Dialogue becomes a two-way learning process and experience on safety matters leading to
- ▶ The Panel becoming part of the “hydrogen family.”