DOE Vehicular Tank Workshop

Sandia National Laboratories
Livermore, CA
April 29, 2010

Goal/Charter: Identify key issues, including R&D needs, regulations, codes and standards, and a path forward to enable the deployment of hydrogen storage tanks in early market fuel cell applications for vehicles

Workshop Objectives:

- Provide initial follow up to the DOE-DOT workshop on CNG-H2 Fuels: Lessons Learned for the Deployment of Vehicles and help prepare for a second international workshop
- Address specific technical topics discussed at the first workshop in more detail, including Type 4 tank and PRD testing, tank service life and tracking
- Review specific regulations, codes and standards for on-board hydrogen tanks, including SAE J2579 and Global Technical Regulations in preparation
- Identify and discuss key issues requiring additional R&D, testing, and validation

Final Agenda

Time	Topic	Speaker
7:30 – 8:00	Badging	
8:00 – 8:15	Welcome, Workshop Overview	Monterey Gardiner, DOE
8:15 – 9:00	DOE-DOT CNG-H2 workshop summary	Antonio Ruiz, DOE
9:00 – 9:30	Tank testing, R&D	Joe Wong, Powertech
9:30 – 10:00	SAE J2579 validation and harmonization	Chris Sloane, DOE consultant
10:00 – 10:15	Break	
10:15 – 10:45	Type 4 tank testing, status in China	J.P. Hsu, Smart Chemistry
10:45 – 11:15	Tank service life, tracking, removal	Doug Horne, CVEF
11:15 – 11:45	PRD data, HPRD-1 status and validation	Julie Cairns, CSA
11:45 – 12:00	Summary of am session, key issues	Monterey Gardiner
12:00	Lunch	

– 1:00		
1:00 – 2:00	Lab tour	
2:00 – 2:30	Fueling components testing, certification	Julie Cairns, CSA
2:30 – 3:00	Fuel quality and metering— status, needs	John Mough, CA DWM
3:00 – 3:15	Break	
3:15 – 3:45	70 MPa fast-fill model validation	Bill Winters, SNL
3:45 – 4:15	NDE methods, validation, applications	Miguel Maes, NASA-WSTF
4:15 – 5:00	Discussion, path forward, action items	Monterey and Antonio
5:00	Adjourn	