

# ICC Hydrogen Ad Hoc Committee Separations Working Group Minutes (Teleconference #5)

<b>Meeting called by:</b> SNL CRF & Secretariat–ICC AHC H2G		<b>Meeting location:</b> Teleconference Meeting	<b>Date(s):</b> 04/13/2004 <b>Start time:</b> 10:35 am (CST) <b>End time:</b> 11:35 am (CST)
<b>Attendance:</b> <i>AHC</i> - Guy Tomberlin, Chair, County of Fairfax; James Hansel, Air Products & Chemicals; Glenn Scheffler, UTC Fuel Cells; James Soden, Equiva Services; Michael Swain, University of Miami; <i>ABSENT:</i> n/a <i>Staff</i> - Darren Meyers, Secretariat, ICC-Chicago; Al Vasys, Vista Consulting Group; <i>ABSENT:</i> Beth Tubbs, ICC-Boston. <i>Interest</i> –Bill Houf, Sandia National Laboratory; Jay Keller, SNL; <i>ABSENT:</i> Chris Moen, SNL; Jim Ohi, NREL; Carl Rivkin, NFPA; Bob Scheffer, SNL.			
Time	Agenda Item	Discussion	Outcome
<b>04/13/04</b>	<b><u>WORKING SESSION</u></b>		
10:40 am	1) Evidence hints at enclosure	Re: JS’s “overpressure inquiry,” Mr. Houf reported that a ?p (atm) of 4-6 atmospheres, based on literature review, would break a CMU wall and likely generate shrapnel.	CRF was asked to evaluate a possible connection: footprint (sf) equivalent to account for ?p (atm) overpressure to avoid shrapnel.
11:05 am	2) To Protect Car from Dispenser -OR- To Protect Dispenser from Car?	A discussion ensued describing the Air Products refueling process. GS suggested a preferred method of refueling being contemplated by the SAE working groups–flow vs. time (check for leaks); mass-flow detection (for leaks); and/or hydrogen LFL/fire/radiation detection.	Avoidance & preclusion of event scenarios is the preferred tactic.
11:20 am	3) The concept of a personal refueling “exclusion zone”	A discussion ensued with reference to protecting the public through the assessment and evaluation of a personal refueling “exclusion zone.” The goal: To rely on the station to provide “some measure” of protection (i.e., safety), and thereby improve the probability risk assessment model.  JH to get back to Sandia CRF w/ typical hose diameters, lengths, commodity content (i.e., volume H2), and potential leak size.	Sandia CRF to investigate. “Please stand back–outside the exclusion zone–“the refueling operation is about to begin.” JK, “Whether this WG or AHC acts on this data as ‘actionable code development criteria’ is solely left to the will of the AHC.  Q? What are the “realistic” leak size scenarios for the personal refueling scenarios?
11:35 pm	4) Adjourn	Next meeting TBD May, 2004 (10:30-11:30 am CST).	“Draft” T2209.3.1 has not changed since the 02/18/2004 call.