

NESCAUM Gasoline Dispensing Facilities' Emissions Meeting

Thomas Driscoll
US EPA/OAR/OAQPS/SPPD/MPG

driscoll.tom@epa.gov

May 2, 2007

Ongoing Projects

- Conventional Dripless Nozzles' Testing
- Dane County, Wisconsin PV Valve and Vaporsaver Testing
- Underwriters Limited Gasoline Hose Permeation Work Group
- Green Convenience Stores

Dripless Nozzle Project

- Estimated 12,000,000 gals./year are dripped, resulting in approximately 39,000 tpy of VOC and 3,000 tpy of HAPs
- EPA is working with the US Army, Army-Air Force Exchange Service (AAFES), contractors, Fort Benning Georgia, and vendors to test dripless nozzles
- Six vendors have been contacted
 - Not all have marketable dripless nozzles for conventional pumps
 - Not all have committed to participating yet
- We plan to use CARB method TP-201.2D, Post-Fueling Drips from Nozzles
 - Calls for 10 nozzles to be tested 10 times each
 - Unsure about baseline testing, at this time
 - We've met with CARB to discuss this method and get some training

Dripless Nozzles Testing (cont.)

- A testing plan has been drafted
- Ft. Benning is slated for the testing
- Testing is scheduled for sometime this summer, maybe late June
- Contacts:
 - Michael Whittington, AAFES, "Whittington, Mike C." WhittingtonM@aafes.com
 - Lisa Trembley-Verdonik, US Army, "Trembly, Lisa" Lisa.Trembly@hqda.army.mil
 - David Cole, US EPA, cole.david@epa.gov

Dane County Green Gas Station Project

- Dane County is examining ways owners can save product, energy and money, focusing on the loss of gasoline that occurs between the drop of product and the sale to customers
- Wisconsin DNR and Dane Co. are planning to install 100 CARB-approved pressure vent valves and two OPW Vaporsavers

Dane County Green Gas Station Project (cont.)

- Schedule:
 - Vaporsavers have been installed and the PV valves are being installed
 - slated to be completed by the end of the ozone season
- Contact, Ed Jepsen Wisconsin DNR,
608-266-3538,
edward.jepsen@wisconsin.gov

Underwriters Limited Gasoline Hose Permeation Work Group

- A group of industry and regulators are working together to establish permeation standards for the kinds of “rubber” hoses and fittings used at gasoline dispensing facilities (GDF)
- 2004 CARB GDF hose permeation testing results:
 - 17 g/m²/day of VOCs
- 2006 industry submitted GDF hose permeation testing results:
 - Greater than 200 g/m²/day of VOCs
- Outboard Marine Corp. hose permeation testing focusing on the effects of alcohol extended fuels
 - Greater than 600 g/m²/day of VOCs

Underwriters Limited Gasoline Hose Permeation Work Group

- Contacts
 - Daniel Ryan, Underwriters Laboratory,
Daniel.P.Ryan@us.ul.com
 - Jason McPhee, California Air Resources Bd.,
<jmcphee@arb.ca.gov>

Green Convenience Store

- EPA is exploring the quantifiable environmental and economic benefits of new and retrofitted “green” convenience stores
- Part of this concept is the reduction of VOCs and HAPs from dispensing and dropping fuel
 - Also include vapor leaks from USTs

Green Convenience Store

- Encourages conversion to other fuels
- This project is just getting started
- EPA is working with 7-11 and Pantry Convenience stores
- Contact:
 - Mark Sendzik, OAQPS/ OID, (919) 541-5543, sendzik.mark@epa.gov