

**Minutes**  
**National Work Group on Leak Detection Evaluations (NWGLDE) Meeting**  
**Boston, September 22-24, 2010**

WEDNESDAY, September 22, 2010

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A complete list of meeting attendees for the sessions is attached.

**ANNOUNCEMENTS**

- Received two different applications for large pipeline testing, in accordance with small pipeline protocol. HCNA is requesting additional equipment applicability for use with small pipelines. This was not acceptable. They retested in accordance with proper protocol. Group decided to list HCNA equipment under both test methods.
- Battelle's Joe Carvitti has not yet begun evaluation of ATGs with ethanol blends.
- Fuel Watch, Paulina Pettit: Medical company fuel distributor with new SIR method. Have not yet submitted for 3<sup>rd</sup> party testing, still developing software, and negotiating with evaluator.
- Veeder-Root has new float. Was 3<sup>rd</sup> party evaluated. May be fuel quality device rather than leak detection device. Was only evaluated on one type of ATG probe; not on all probes. Was not tested using high percent ethanol gasoline.
- Franklin fueling may have questions regarding sensors and retesting using ethanol blends.

**INTRODUCTION OF MEMBERS AND VISITORS**

- The group welcomed visitors/presenters and they were asked to sign in.

**VENDOR PRESENTATIONS**

- **Vaporless, (Greg Young) Ethanol certification for precision tank testing.**
  - Trying to get ethanol certification for Ultrasonic probe, PRECISION TANK TIGHTNESS TEST. Big issue being water intrusion and how to find leak when phase separation portion at bottom of tanks not necessarily indicative of leak in tank. Studied ATG water testing in ethanol blends <10%. Is NWGLDE going to list devices under current protocols vs. writing new protocol for ethanol blends? Looking to test E15 and E85. Protocol indicates how to test for water ingress. Addressing groundwater and the affects of pressure differential to overcome the affects of groundwater while precision tank testing using the UStest 2001/P. There is a 2001/P protocol, since 1/6/10: Minimum test pressure of 1 psi on bottom; water table must be determined or drill an observation well; fill tank to 95%, or do not test tank. If water is above fuel, water must be 28" above fuel level to establish 1 psi pressure differential at top of fuel. Must verify enough pressure exists in tanks to locate/detect a possible leak. QUESTION: Will NWGLDE get back to Greg regarding question on new protocol? Testers question how to overcome water table issue. Vaporless does tester certification for UStest 2001/P, only. Recertification required every 2 years, with web base testing available. Rechecking of equipment is required as part of recertification. Posting a list of certified

testers on website is being discussed between VMI and USTest. There is not enough documentation on 2000/P to support certification of testers; NWGLDE web page indicates USTest does not support 2000/P. Again, rechecking of equipment is required as part of recertification. Procedure or comments by workgroup on presentations will be in minutes. Protocol indicated was designed by NWGLDE, due to industry failure to submit a paper. NWGLDE is always open and willing to except an industry written/re-written protocol. A volumetric tank tightness test group should be contacted regarding questions being asked by VMI. This protocol has embedded in it water detection float requirements. It is only an addendum to other protocols.

▪ **ETV Project (Joe Carvitti) Follow-up discussion on ATG evaluations in Biofuel**

- Test plan was submitted in June and approved. It has been sent to EPA-OUST and EPA-Office of Research & Development. Comments from EPA are now being addressed. The next stage of the plan will be posted on the <http://www.epa.gov/etv> website when completed. Project is now in the vendor recruitment phase of the program. Within the next few months ETV should have a list of participating vendors. ETV is currently building test materials, a tank with clear end plates. Testing is to begin in January, 2011. Tests will control temperature. ETV plans to have a final report out by June, 2011. Testing various blend percentages is to cover from E0 to E27, and E85, as well as neat gasoline. ETV does not make any conclusions from testing. ETV simply posts results of the tests. ETV is not a third party testing organization. It was determined that the source fuel is not a variable, i.e.: difference in seasonal fuel, additives, etc.

▪ **Fuelwatch (Paulina Pettit) Evaluation of FuelWatch System**

- Fuelwatch is a medical industry information gathering network, transferring information gathered from fuel delivery. This system purports to have the capability to marry feed, system alerts, inventory, etc. The system is equivalent to an ATG, with auto SIR reports. The system is accessible online, 24/7 from the Fuelwatch website. Customer will enter data into a hand held device. Fuelwatch will then automatically generate a SIR report. Fuelwatch is in the process of acquiring third party certification from Ken Wilcox Associates. The Fuelwatch system will consolidate data, compare and trend data in real time on demand. It will allow the ability to share data, export reports, and generate instant alerts. Fuelwatch does the initial data input, and training of company employees. With the Fuelwatch system there is no more manual sticking of the fuel system. The amount of data required to get a report is 1 month accumulation of data.

▪ **Veeder-Root (Ken Cornett) Update on phase separation detection**

- Water detection float for ethanol blend fuels has detection threshold of 9.77mm, with a minimum resolution of .265mm. Temperature consideration was included in development of the probe. The probe is based on density differentiation. There are two portions to the probe. One to detect water and one to detect phase separation. The probe is not for use with E85 or higher. Magnetostrictive probes are retrofitable, but not to other probes. The probe can be hooked to a standard Veeder-Root system. It can be used as a replacement for current water float. The probe was tested for water in bottom of E10 tank; it was not tested for phase separation detection. Veeder-Root is not taking credit for phase separation detection, just water detection. However, Veeder-Root is going to market the probe as phase separation and

water detection capable. Veeder-Root is requesting same listing as on other Veeder-Root floats. Veeder-Root's intent is to substitute this float for existing floats.

- Does a company have to retest leak detection devices to get new water probe listed by NWGLDE? Workgroup must discuss this. A decision will come out in the meeting minutes. Spontaneous thought is it should not affect leak detection device. Listing will only apply to devices probe was tested on, from third party evaluation. ATG protocol does not require or evaluate water ingress detection threshold. It was suggested that change to this protocol may be in order. Is their marketing to suggest people change over to this probe for existing Veeder-Root systems? NWGLDE suggested to Veeder-Root that a marking be left on float line to indicate new probe has been installed. The point of this new probe is to detect water sooner.

▪ **HCNA (Charlie Fenton & Skip Phelps) Small pipe volume testing, Third-party technical approach**

- Currently tested 50 gal plus volume lines. Technology indicated this method is scaleable to different pipeline sizes. Small pipe volumes of less than 5,000 gallons were tested under option 3 of the EPA pipeline protocol, and used actual facilities over a 2 year period during all seasons. The HCNA method is more for airports, large volume pipelines, but could be used on rigid piping at gas station facilities. The test length is 20-25 min. Minimum detectable leak rate is a percentage of line volume. The threshold is 0.1% of leak rate. Testing was done with Ken Wilcox observation. HCNA is requesting an addendum to the original EPA pipeline protocol for lines of less than 5,000 gallons.

**End of Presentations**

**Open Meeting General Discussion on Subjects Related to NWGLDE Mission**

- Overview of Curt's NTC presentation: biofuels update
  - Workgroup will accept B0-B5 as diesel.
  - Workgroup will accept B6-B20 if processed in accordance with proper ASTM standard.
  - Workgroup will not accept B21-B99, unless it is requested by vendor.
  - Workgroup will accept B100 if in accordance with proper ASTM standard.
  - Workgroup does not evaluate compatibility, as no protocol addresses compatibility.
  - No listing by the workgroup includes alternative fuels, unless the product specifically indicated it was tested for that fuel in the evaluation, see disclaimer.
  - As long as coefficient of expansion is known, products are listed on the testing report.

**End of Open Meeting**

**End of Wednesday Meeting**

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THURSDAY, September 23, 2010

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**Protocol Issues (Ken Wilcox)**

- Committee expressed concern/need for finalized protocol for large diameter pipeline systems.
- Concern was expressed to address these issues in a timelier manner.

**Vendor Presentations**

- Vaporless: Bill, Mike, and Lamar will write a response to Vaporless, indicating that listing will be very limited in scope. The response will request response from Vaporless regarding their decision to list or not. Verification is required from Vaporless to clarify which method is being reviewed, since website does not list 2001/P method. Company is intending to create a more stringent testing procedure to identify more/smaller leaks than competitors. Original evaluation was located and will be re-posted with change to pd and pfa, and will be listed under volumetric tank testing.
- Battelle: It appears they still do not have equipment to work with. However, money is not the issue. Lack of firm commitments by vendors to participate seems to be the major issue. Due to the availability funding from a number of sources, any company wanting equipment evaluated, will be at a comparatively reduced expense to that company. If there are a large number of vendors participating, then a small fee may be charged. Veeder-Root has responded and OPW may agree to participate. Also, existing facilities, (i.e.: 7-11, BP) equipment can be used. Testing may be considered third party evaluated which may affect current listings of equipment. The point of test is to verify equipment works or not. Therefore, it is too soon to determine effect on current listings. There is currently no protocol for ethanol testing, making this process by Battelle important, and could allow a note on each listing indicating that equipment was evaluated by Battelle. There was suggestion to place the test tank in a water bath to simulate UST vs. the AST being tested. It is actually a probe comparison test. Full size tank is not required. Scaling would be possible/acceptable. With temperature being major concern of test, it was suggested that a completely covered tank with a camera to view action would provide a better temperature control. Basic reason for testing is to determine if equipment can detect leak, and water ingress, with fluctuating leaks in ethanol fuels. Test is intended to simulate actual facility conditions. What format would NWGLDE like the test results to appear in? Workgroup would like to see legacy equip tested vs. new equipment. Lamar, Bill and Mike will take lead on communicating with Battelle as to what workgroup wants, such as:
  1. Have Battelle submit work/test plan to workgroup for review and approval. May require quick turn-around.
  2. List of equipment to be evaluated, with name, serial, etc.
  3. Description of scalability.
  4. Results will indicate what test was for, what results were expected, and how equipment performed.

The test will not indicate a pass or fail for piece of equipment. NWGLDE requires summarized test results for workgroup review. It will be the vendor's decision to submit results to NWGLDE for listing.

- Fuelwatch: It is the consensus of workgroup that the company does not have a clear focus on the direction they will take. They are still in planning stage of the program.
- Veeder-Root: Workgroup may require indication on listing that new probe is NOT a leak detection device. It is a water float only and will detect water at a lower level than existing

floats. Since the new probe is a water float only, listing would not change. EPA rules indicate that a leak is defined as fuel leaving the tank, not the ingress of water. If water is entering a tank it should be reported as a suspected release, and investigated.

- **HCNA:** During their presentation it was noted that the evaluation submitted for review has test data collected by first party, with results evaluated by third party. Testing for this test method was completed in accordance with EPA protocol. NWGLDE team will verify if KWA was present during test procedure, even if they did not actually perform the tests.
- Comments regarding water float in biofuels: Float must be designed to float on water, not be discriminating. It is indicated that there may be a need to create separate listings for different floats. Interstitial monitors should indicate the presence of ANY fluid in the space, and require an investigation. It may be necessary to require each float be tested per fuel/product.

## **TEAM UPDATES**

### **ATG & VTTT TEAM – Lamar Bradley**

#### **Completed Activity:**

- EBW Auto Stik Magnetostrictive probe. Old evaluation discovered by Bill Moore, February, 2010, while doing file archiving project. Bill developed listing based on evaluation. (Franklin Fueling bought EBW and discontinued line in 2009, but still provides parts and service for AutoStik.)
- Sonic Technology (ST) 1400-1800 Series, ProLink System, LLM Series Liquid Level Monitor, FMS Fuel Management Monitor (Ultrasonic Probe). July 20, 2010, Bill Moore located RJ-ST third party evaluations requested by state of Oklahoma and realized there was an error in the minimum test time on the workgroup listing. A revision was posted to the workgroup listing August 3, 2010.

#### **Under Review:**

##### **ATG**

- USTest 2000/P List modification.
  - October 12, 2009, a letter was sent to Michael Gibson of USTest concerning removal of UST 2001/P as VTTT. No reply received as of November, 2009, so recommended dropping UST 2001/P from VTTT list. November 17, 2009, an email and letter dated November 6, 2009, was received from Greg Young requesting the listing for UST 2001/P remain as VTTT. Lamar is still working on this confusion over nomenclature, and later information received indicates that it will be acceptable to list 2001/P as VTTT. No decision has been made; issue is still under review.
- Franklin Fueling Colibri ATG Controller, adding to existing probe listings.
  - There is no existing protocol to evaluate this item. May list this controller pending receipt of a short proposed protocol for console comparisons.
- Veeder Root Water Float for Ethanol Blended Gasoline.
  - Evaluation limits application to VR 350 or 450 with 8463 probes and specific versions of software.

#### **VTTT**

- Mass Technology Corporation.
  - CBU 1000D tank tightness test documents received February, 2010, for tanks 50,000 gallons. Mike Juranty is lead reviewer on this. Effects of groundwater not considered in evaluation. Mike has requested response from Mass Tech and KWA, March, 2010.
  - June 6, 2010, a call was received from Ken Wilcox regarding water levels on Mass Tech. Returned call following week. Sent email July 13, 2010 informing Ken that Mike is doing this one, and reply received that Ken would call Mike. Revised report received July 19, 2010. On July 28, 2010 Mike responded to Mass Tech that revised report still does not provide the test data required by protocol for groundwater compensation. On August 17, 2010 Ken Wilcox stated that he would be proposing additional testing at a second product level in order to meet the protocol requirements.

#### **Other Activity**

- ATG 0.1 gph listing issues.
  - May 12, 2010, a letter was sent and information completed regarding ATG vendors relative to providing documentation that they used 0.05 leak rates in evaluations to be listed for 0.1 gph tests. Responses being received.
  - September 2, 2010, received third party evaluation from VeederRoot on Water Float for Ethanol Blended gasoline. Emails exchanged with Don Halla (VR) regarding float and questions about how to list.

#### **CITLDS TEAM – Shaheer Muhanna**

##### **Other Activity:**

- Nothing to report.

#### **NVTTT TEAM – Helen Robbins**

##### **Under Review:**

- Tanknology – (also went to IMOTDM team) Due to protocol it was evaluated under vacuum interstitial, it should actually be a non-volumetric tightness test.
- Tanknology - VacuTest revised listing to indicate less vacuum. Response was to have a third party evaluation completed.

#### **LLD TEAM – Greg Bareta**

##### **Under Review:**

- Purpora Engineering to update PetroTite listing to indicate that technicians must be re-certified every 2 years.
- VaporLess used a reduced number of tests and they were told that there is no protocol to accept this change. Team is awaiting further justification from Ken Wilcox concerning reduced number of tests.
- Vista and HCNA originally were thought, by the workgroup, to have evaluated under the Large (Bulk) pipeline protocol, for which there is no approved version. They didn't. They used the EPA Pipeline Protocol Options 2 and 3. Workgroup approval is needed to list the "EPA Pipeline Protocol" under the Large Diameter Line Leak Detection Method (6 Inches Diameter or Above) category, and then the listing can be approved. Since they used EPA Pipeline Protocol and HCNA tested with an addendum to the lower capacity, the workgroup can list them under the

Line Tightness Testing Method category also. There still is not a “Bulk Pipe Line Protocol” approved. The one referred to under that category on the NWGLDE website can’t be found.

- Franklin Fueling continuous pressurized piping testing leak detection was presented to workgroup for further clarification on throughput value. Workgroup accepted explanation and system will be listed following meeting.
- Leighton-O’Brien PM2 under review for line tightness testing approval.

### **SIR TEAM – Lamar Bradley**

#### **Completed Activity:**

- Victoria Automotive Chamber of Commerce Fuel Manager SIR v.1.5.
  - Australian company. Draft listing developed and sent August, 2001. Method has been evaluated and can be listed pending agreement to use ½ performance standard as leak threshold instead of performance standard. July 13, 2010 sent email asking if company was still interested in having method listed, and draft listing. August 26, 2010 reply from John deVos saying they were keeping the performance standard higher than 50% of threshold and acknowledged that this might preclude them from being listed. Email sent to deVos saying review discontinued.

#### **Under Review:**

- None at this time.

#### **Other Activities:**

- FuelWatch is working with KWA for SIR certification. We may receive a third party evaluation in the future from this company.

### **IMODTM TEAM – Tim Smith**

#### **Completed Activity:**

- Franklin Fueling change from 404 to 406 Liquid Level Sensors.
  - Interstitial detector (liquid-phase) listing date: August 18, 2010
  - Removed Models 404 and 406 liquid level sensors from the Beaudreau Electric, Inc. listing. Franklin Fueling systems acquired the rights.
- Beaudreau Electric, Inc., Model DFR-1 Liquid Level Switch, Models EOS100, 510 and 516 Discriminating sensors with Models 500 and 500C controllers, Model 522 Remote Monitoring System, Model 522T Monitoring System, and ESite Monitoring System.
  - Interstitial Detector (Liquid-Phase) listing date: August 18, 2010
  - Removed Models 404 and 406 Liquid Level Sensors. Franklin Fueling Systems acquired the rights.
- Veeder Root TLS-300 Series, TLS-350 Series, TLS-450 Series, EMC Series, EMC Basic, Red Jacket ProMax and ProPlus with Single Stage Hydrostatic Sensor 794380-301, Dual Stage Hydrostatic Sensors 794380-302, 303.
  - Interstitial Detector (Liquid-Phase) listing date: August 23, 2010
  - Added ethylene glycol to the existing listing.

#### **Under Review:**

- Interstitial Detector (Liquid-Phase):
  - Beaudreau Electric Marketing, LLC

- Evaluation of the DCS140 Series Liquid Sensor models DCS 140L, DCS140NL and DCS140D.
  - Peter Rollo is reviewing. The sensors are reed switch/float switch combination units. They have been evaluated using diesel, gasoline, and E85. Note recent NWGLDE position is to accept evaluations of these type sensors with ethanol using existing test procedure(s).
- Containment Solutions, Inc. (Originally listed as Fluid Containment and O/C Tanks).
  - Evaluation of FOVF 600B, FOVF 600S Non-Discriminating Sensors for High Level Overfill (Brass, Steel); FCBS 700 Non-Discriminating Sensor for Collars, Bulkheads, Sumps; FDAS 710 Non-Discriminating Sensor for Dry Annular Spaces; FHRB 810 Non-Discriminating Sensor for Reservoirs.
    - Lamar Bradley is reviewing. Request is to update an existing listing based upon NWGLDE's recent acceptance of the similarity of performance of biodiesel blends less than and including 20% that was provided by the National Biodiesel Board.
- Franklin Fueling Systems (FFS).
  - Add "S" to the designation of the 404 and 406 sensors formerly owned by Beaudreau Electric, Inc. (BEI).
    - Tim Smith is reviewing. BEI listing removed and replaced with FFS listing indicating formerly owned by BEI. Company then asked to rename sensors with "S". Draft revision developed. However, awaiting additional verification that FFS 404-4 Controller that company recently asked to be added is the same as one of the previous listed controllers that was on BEI's listing. If it is not, need third-party evaluation to establish that similar performance is expected.
  - Add ethanol to listed products – Various float switches
    - Shaheer Muhanna is reviewing. Have not received third-party evaluation. Conveyed recent NWGLDE position on acceptance of evaluations with ethanol for these types of sensors using the existing test procedure(s).
- Omntec Mfg.
  - Add "BX-LWF" sensor to existing Omntec listings
    - Tim Smith reviewing. Company unable to provide a copy of the complete third-party evaluation. I have what appears to be the original evaluation on file date June 12, 1993 and conducted by KWA. However, it appears that the evaluation was revised on November 20, 1998, as indicated in parentheses on the results sheet provided by Omntec. Although results sheet lists the sensor, the original evaluation does not address the LWS sensor. Have draft email to finalize and send. It appears that the LWF is listed on at least one Omntec listing on NWGLDE List. No additional action might be required.
- VeederRoot (VR).
  - Evaluation of the VR Double-walled Containment Sump Hydrostatic Sensor – Form No. 794380-304 with TLS 450 Series, TLS 350 Series, TLS 300 Series, EMC Series, EMC Basic, Red Jacket ProMax and Red Jacket ProPlus.
    - Bill Moore reviewing. VR wants to add propylene glycol to existing listing. Third party evaluation tested sensor specifically with propylene glycol.
  - Evaluation of the VR MicroSensor and Tank Interstitial Sensors – Form Nos. 794380-344 and 794390-420.

- Shaheer Muhanna is reviewing. VR wants to add waste oil to existing listings. KWA conducted evaluation.
- Certification by KWA of acceptability of use of various VR sensors in other containment areas such as containment sumps, contained risers and other contained enclosures (Sensor Nos: 208, 323, 344, 345, 420, and 430).
  - Lamar Bradley is reviewing. Received letter from KWA listing each sensor. Request prompted by recent activity in California.
- Interstitial Detector (Liquid-Phase); and Out of Tank Product Detector (Liquid-Phase):
  - Incon Intelligent Controls, Inc.
    - Appears that the TSP-UHS sensor was missed in the company's listings associated with the third-party evaluation: "Comparison of the performance of the Incon TS-1000/TS2000 Series to the TS-10001/2001 and the TS-5xxx Series Consoles with all external sensors".
    - Tim Smith is reviewing. Need to sort through third-party evaluation to determine if the three Incon listings should be updated to include the TSP-UHS sensor on all or any listing.
- Out of Tank Product Detector (Liquid-Phase):
  - OPW Fuel Management Systems.
    - Comparison of the performance of the OPW Fuel Management Systems leak detection system series SiteSentinel Console with and without the Intelligent Sensor Interface Assembly.
      - Tim Smith reviewing. Riddled with problems. Unable to complete analysis of full range of applicable systems due to testing not covering each appropriate system. At best, perhaps one sensor might be eligible to be added to each requested listing. Sent John Zheng email notification on November 17, 2009.
- Interstitial Tank Tightness Test Method:
  - Steel Tank Institute (STI).
    - Evaluation of the Permatank Interstitial Monitor for detection of liquid leaks using liquid sensors.
      - Pete Rollo is reviewing. STI has had the Permatank system re-evaluated to include tanks up to 50,000 gallons.
    - Evaluation of the Permatank Vacuum Leak Detection System provided for the STI-P3® Act-100® and ACT-100U® double wall steel underground tanks.
      - Bill Moore reviewing.
- Non-Volumetric Tank tightness Test Method (Vacuum):
  - Tanknology.
    - Vacuum interstitial test for double wall tanks.
    - Bill Moore reviewing. IMOTDM Team and NFTTT Team working together to review request. Method was evaluated using the NVTMT method. However, it falls under the interstitial monitoring category. Evaluation indicates the purpose of the test is to determine the tightness of a double-wall UST with a dry interstitial space.

### **AST & BULK STORAGE TEAM– Peter Rollo**

#### **Other Activity:**

- Three Vista Research equipment evaluations moved from under review to not listed.
- Peter talked with Vista two years ago and has not received any response. Peter sent a letter September 2010, certified, informing Vista the equipment was no longer under review.

### **SECONDARY & SPILL CONTAINMENT TESTING METHODS TEAM – William Moore**

#### **Under Review:**

- OPW sending in evaluations that do not have a protocol. Bill requested a protocol be submitted to evaluate the equipment to. Ken Wilcox did evaluation without protocol, OPW is still writing protocol.

### **ADMINISTRATION TEAM – Curt Johnson**

- Looking at discontinuing the hardcopy list. The reason being that it is not necessary to create a hardcopy when the list is posted on the NWGLDE website.

### **WEB SITE ADMINISTRATION– Marcia Poxson**

- Nothing to report.

### **PROTOCOLS UNDER REVIEW UPDATE**

- Many protocols are currently under review that have been used, though not finished.
- Tanknology to write a pipeline protocol and KWA to review prior to submission to workgroup.

### **REVIEW TEAM ASSIGNMENTS**

- Leaving assignments as is.

### **NEW BUSINESS**

- Large Pipeline Testing Protocol by EFA Technologies, other modified protocols and Hansa Evaluation – Bill Moore & Greg Bareta
  - EFA was a one time review, no need to add to web page.
  - Workgroup should wait to remove large pipeline protocol, and should replace it with new protocol from KWA when approved.
  - Malt evaluation method is not part of any listing; therefore, remove protocol from NWGLDE web page indicating this method.
- Out-of-Favor/Obsolete Protocols – Tim Smith
  - Battelle evaluation may become new ATG protocol. Workgroup needs to decide how to identify new probes/protocol, which can be used in ethanol. Workgroup might end up with 2 ATG protocols, and must indicate which is current and which is obsolete. Workgroup will decide how to proceed after receiving the Battelle report.
- Ethanol Blends, White paper? – Greg Bareta & Curt Johnson
  - Vendors have indicated a desire to have ethanol added to their listings. They were told workgroup needed to receive testing evaluation for floats. Industry needs to write white paper/protocol for ethanol testing.

### **Meetings**

- The next meeting, is this spring, in Sedona, Arizona – Curt Johnson will make arrangements with NEIWPC.
- The fall 2011 meeting was scheduled to be in Portsmouth, New Hampshire.
  - It was noted that there is no airport into Portsmouth; have to fly into Logan and train or bus to Portsmouth; or have meeting in Manchester instead of Portsmouth, where you can taxi to a motel.
  - It was decided to change the fall 2011 meeting to San Diego, CA. Helen will plan the program.
- The spring 2012 meeting is in Saint Louis, MO, jointly with the National Tank Conference.
- Mike Juranty is going to take the minutes at the Sedona meeting this spring.

### **TEAM MEETINGS**

**END OF THURSDAY MEETING**

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FRIDAY, September 24, 2010

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**New Business Continued**

- ELLD with mechanical blending valves – Greg Bareta & Bill Moore
  - Team talked with Veeder-Root. They did not indicate that there could be an issue with electronic blend valves. The concern is back pressure leak detection causing false alarms. Conversation in June with Veeder-Root and Incon indicated there could be a problem with mechanical blending valves. Veeder-Root believes issue was only noted on degraded equipment. Incon feels that sometimes facility will be testing when the other line is not running, and a leak will be picked up eventually. Is the answer to require blending systems being checked weekly/monthly? ELLD with mechanical blending valve could be inaccurate, per Heather Peters from Missouri. ELLD must be used with electric blend valves. MLLD will be issue with either electric or mechanical blend valves. Since there is not enough information yet, it was decided not to make any note on listings at this time.

**Old Business**

- Define “Alternative Fuels” and/or “Alternative Fuels Blends” – Mike Juranty
  - Definition was presented at last meeting. It was decided to change definition to “a fuel or petroleum fuel blend containing any amount of ethanol, methanol, or animal/vegetable oil. With the exception of petro blends having up to 5% of biodiesel.” Survey through Julius regarding what is alternative fuel, result was all over board, with a minority of states responding. Conventional gasoline is  $\leq$ E10, though apparently not in all states. Workgroup to build definition to save time. Mike will initiate email for comments on definitions to bring back to next meeting.
  - Ellen Frye, Marcel Moreau, Curt Johnson are going to get together to discuss alternative fuels, with Marcel to write article regarding alternative fuels.
  - Curt will create a definition for biodiesel and send to workgroup to be brought back at next meeting.
- Follow-up on updating information on the use of electronic line leak detectors with mechanical blending valves – Greg Bareta, Bill Moore
  - Continuing research at this time.
- Follow-up discussion on 0.1 gph ATG certifications using volumetric protocol – Lamar Bradley
  - Team report covered issue.
- Hearing tests for LD equipment requiring use of listening devices – Greg Bareta
  - Email was exchanged with committee and Estabrook indicating that his device is designed to amplify the sound. It was decided that if a person is not able to hear all frequencies, increasing volume will not make it possible to hear those frequencies. Greg is going write Estabrook and other similar companies indicating that hearing tests will be required for technicians performing these tests.
  - November, 2003, letter from Estabrook indicates technicians must use BC250 (diesel biocide) product to use when testing gasoline systems, to perform conductivity test. BC250 is company out of Australia, using a form of nitrate, ethanol and other chemicals, and tends to drop to bottom of tank, to allow calibration of water level in tank. Question to Estabrook is: does he mix BC250 with water, or water with BC250, or not using BC250 at all? What is used for diesel? How does it work? Does it have a clear interface with fuel and water?

- Update on development of a template “Under Review”, “Not Listed”, “Review Completed” lists – Lamar Bradley
  - Access database is up to date, and ready to be added to web page, and allow updating following each meeting or as needed. When a new evaluation is received by team leader, Lamar should be notified to allow addition of information to list to allow list to remain current.
  - Franklin Fueling systems TS-LS500 series with SLLD. It is short term and long term test, requiring less data points and time duration. If enough data is not accumulated over a month/period an alarm is posted.
- Discuss future LUSTLINE articles (next is about website) – Curt Johnson
  - ELLD with mechanical blend valves – Greg
  - Discuss biodiesel white paper and encourage white paper for ethanol – Curt
- Discuss SOP Manual – Tim Smith
  - Next meeting Tim will present manual to group. Tim will send out current version to group.
- File retention committee discussion – Lamar Bradley, Curt Johnson, Bill Moore
  - Workgroup members should send Bill any old files so he can run them through OCR program to create electronic version. Verify that electronic, pdf version does not have security codes. Bill is working to make access to data available for public. It is currently only available to select Utah state employees. Tim is considering purchasing software to allow moving archived electronic files to a server, which would allow public access to files.
- Discuss photo album, and access to it – Curt Johnson
  - Attempt to place photos of workgroup members and past photos on a web server has resulted in distorted pictures. It is suggested that we make a new page on the workgroup website for photos. It was decided to create a page on the NWGLDE website which is password protected, accessible only to members. The same protection will be created for Under Review, Review Completed and Not Listed pages.

### **Other Issues Not Previously Covered**

- No new issues, at this time.

### **Adjournment**

### **Attendance List**

See below. Also, please note the Attendance List for Thursday, September 23, is the same as the list for Friday, September 24.

ATTENDANCE LIST  
National Work Group on Leak Detection Evaluations  
Boston, MA  
September 22-24, 2010

Name	Representing	Phone Number	Email address
CERT JOHNSON	ALABAMA NWGLDE	(334) 271-7986	cj@adem.state.al.us
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