

NWGLDE meeting

Wednesday, September 18, 2013

First presentation- Anne Marie Gregg, Battelle. She provided an update on leak detection equipment testing. They have completed lab-work for the bench tests. They are receiving the data and it is under review. They are also preparing to conduct lab-scale testing. She requested suggestions for technology to test. The next test would be the full-scale testing. Expect to have draft for review by December 31. Scheduling vendor interviews the week of October 7th.

Second presentation- Sully Curran, Fiberglass Tank & Pipe Institute and Tom Tietjen, Xerxes Corporation. He requested that NWGLDE adopt new definitions. “*Continuous* interstitial monitoring” would be defined as monitoring both primary and secondary walls of containment in BOTH dry and wet conditions – pressure or vacuum (liquid or air). Sully then discussed his second proposed definition: “interstitial monitoring”- continuously monitors dry interstice using liquid detecting sensor. Liquid sensing probes discussed. Sully also discussed his interpretation and concerns with the proposed draft federal regulations. They also outlined the California requirements for VPH monitoring (vacuum, pressure, hydrostatic, including connections to an alarm. Finally they outlined other states’ regulations. They acknowledged that these issues are not necessarily concerns for NWGLDE.

Third presentation- Greg Young, Vaporless Monitoring. Emergency generator facility discussions. Find the problem before you are in an emergency situation. And having a way to bypass/override an alarm during a ‘mission critical’ situation. Revisit the test locations in the line. Discussed how generators run, available fuel storage in belly tanks. EGs can run for hours before fuel is critical. Might not be a “real emergency” either way.

Fourth presentation- Cal Hodge (A Second Opinion) and Sam Gordji, Renewable Diesel. Cal: Discussed ASTM D975 diesel standard. Definition of hydrocarbon oil- does not reference petroleum. Renewable diesel compared to Table 1 No. 2-D Requirements. Reviews by professors at U.C. Davis and U.C. Berkeley. Texas reviewed. All determined it was equivalent of diesel. Outlining the white paper request and would like a definition from which to start. Sam: Discussed the variety of names that this product has. Sam requested questions, data and information sent to him at samgordji@yahoo.com. Proposed definition: D975 compliant hydrocarbon oil produced from biomass.

Fifth presentation- Ken Wilcox- He has an AST at his site now, which was new for him. Invited everyone to visit his facility.

Thursday, September 19, 2013

Discussion of vendor presentations.

Second presentation- The NWGLDE members reviewed the existing definitions and determined that no changes will be made at this time.

Fourth presentation. We are requesting a white paper to process their request to include the term “renewable diesel” in the definition diesel. The workgroup intends to request outside input on the white paper, upon submittal. At a minimum, the white paper should include title, author(s), author qualifications, purpose, background, references, justification to include fuel, explanation of the process of making the fuel, applicability to release detection/functionality, definitive conclusions, and any peer reviewers and/or contributors. We believe Cal Hodge and Sam Gordji should co-author the white paper.

Other item: We discussed the software versions being listed on the certificates. Greg is going to ask vendors for their most recently third party certified/listed software versions associated with their listed equipment.

Team Updates

- 1) ATG/VTTT-
 - a) Purpora submitted a new third party evaluation for the new probe design.
 - b) Franklin Fueling request to add TS-5000evo to listing. Options for updated listed provided to Franklin Fueling.
 - c) OPW request new nano-model listing (not to be marketed in US). Request will be reviewed and options will be provided to manufacturer.
 - d) Continuing to work on updating or changing listings with 0.1gph test.
- 2) CITLDS- No updates at this time.
- 3) NVTTC- Two Purpora listings have been reviewed by the team, completed and posted. 8200 Series Sonde Ullage and 8200 Series Sonde (vacuum).
- 4) LLD- ATMOS International bulk line monitoring (airport hydrant systems). Reviewed, completed, and listed.
- 5) SIR- Only request was from AIUT (company from Poland) requested information about how to get an SIR listing. Intends to submit a third-party evaluation. No submittal or review yet pending.
- 6) Interstitial and Out of Tank Detector-

I. Completed Activities

a) Veeder-Root

- Action taken: Revised Veeder-Root’s listing associated with: Solid-State Pan/Sump Sensor 794380-321, 351; Piping Sump Sensor 794380-208, 209; and Micro Sensor 794380-340. Clarified the operating principle(s) associated with each sensor as follows: optical (794380-321, 340, and 351); and float/reed switch (794380-208, and 209).
- Date listing revised: 6/10/13
- Equipment category: Interstitial Detector (Liquid-Phase)

II. Under Review

- a) Franklin Fueling
 - a. Action requested: List S940 Sensor Alarm Console with Interstitial Detector (Liquid Phase) sensors: TSP-HLS; TSP-HFS; TSP-UHS, and TSP-ULS.
 - b. Status: All sensors are float-switches. Report was only complete for the TSP-HLS sensor. It contained results for water, diesel, bio-diesel, unleaded gasoline, and unleaded E85 testing. The TSP-HLS only had results for water and E85. It was missing results for diesel, bio-diesel, and unleaded gasoline. The report did not include information on the TSP-UHS or TSP-ULS sensors. The company thought that since these sensors were listed on another NWGLDE listing it was ok to feature those existing results on a new listing. Sensor team indicated that report must evaluate all sensors with the S940 Console. 1/19/2012, company stated that it would have KWA test and resubmit a completed report.
 - c. Note: No recent activity. No change expected until information/validation is received from company, Battelle, or some other source on the functionality in ethanol-based fuels. Current protocol is suspect.

- b) Franklin Fueling
 - a. Action requested: List TSP-DMS 12 and 24 inch Discriminating Magnetostrictive Sensors with E85.
 - b. Status: Team partially completed request by listing the TSP-EIS (Opto-electric); TSP-ULS (Float Switch); and TSP-UHS (Float-switch) with E85 on January 27, 2011. Information unavailable to list the discriminating sensor for E85, at this time.
 - c. Note: No recent activity. No change expected until information/validation is received from company, Battelle, or some other source on the functionality in ethanol-based fuels. Current protocol is suspect.

- c) Omntec Mfg.
 - a. Action requested: Add "BX-LWF" sensor to existing Omntec listing. Sensor never listed. Full report requested but unavailable by company. Received supporting documentation from NWGLDE member sufficient to add the sensor to existing Omntec listing.

- d) OPW
 - a. Action requested: Complete partial listing posted on April 9, 2012 for the iSite, iTouch, and EECO Series Fuel Management Systems with OPW Intelligent Sensor (and Company Equivalent): 30-231-S, 30-0230-S (30-3221-1A/1B, Q003-009); 30-0231-L (30-3221-1); 30-0232-D-10/D-20/D-10B/D-20B (Q0003-001/002); and the 924B Sump Sensor.
 - b. Status: Company-requested that NWGLDE list various sensors ethanol blends – E10, E15, and E85. The operating principles of the

sensors included: float switch, use of an adsistor element, optical-light refraction, and use of a Belcor Element. All float switches have been listed. Awaiting testing or other means of verification of other operating principles with ethanol blends.

- c. Note: No recent activity. No change expected until information/validation is received from company, Battelle, or some other source on the functionality in ethanol-based fuels. Current protocol is suspect.

- e) PermAlert
 - a. Action requested: Revise two existing PermAlert listings. Original evaluation tested sensors to the quantitative procedure although these sensors are listed as "Qualitative" for "Output type" on the listing. New evaluation of modified PAL-AT consoles evaluates the various sensors using the qualitative procedure that involves full immersion of the sensors and recording the alarm response times.
 - b. Affected listings:
 - i. PAL-AT Models AT20C, AT50C, AT40K with AGW Sensor Cable, TFH Hydrocarbon Sensor Cable
 - ii. PAL-AT Models AT20C, AT50C, AT20K, AT40K, AT80K with PHLR-S/L and PHLR-P-S/L Hydrocarbon Probes

- f) Pneumercator Company, Inc.
 - i. The four entries below are interstitial monitors for secondary containment systems.
- g) Action Requested: Review Evaluation of the Pneumercator Reservoir Sensors involving use of Sensor Models: RSU810 Single-Float, and RSU800 Series Dual Float With Console Models: LC1000 Series, LC2000 Series, E-700-1, LDE-700, LDE-740, TMS3000, TMS2000, TMS2000W, TMS1000 Series.
- h) Action Requested: Review Evaluation of the Pneumercator Non-Discriminating Liquid Float-Switch Sensors involving use of Switch Models: LS600 Series, LS600-LD Series, LS610 with Console Models: LC1000 Series, LC2000 Series, E-14, E-29, E700-1, LDE-700, LDE-740, TMS3000, TMS2000, and TMS2000W Series.
- i) Action Requested: Review Evaluation of the Pneumercator ES825-200F/XF Discriminating and ES825-100F/XF/CF Non-Discriminating Sensors as Liquid Level Sensors with Console Models: TMS3000 Series, TMS2000 Series, and LC2000 Series.
- j) Action Requested: Review Evaluation of the Pneumercator ES825-400F/XF Discriminating and ES825-300F/XF/CF Non-Discriminating Sensors as Liquid Level Sensors for use with Console Models: TMS1000 Series, and TMS2000W Series.

- k) Steel Tank Institute (STI)
 - a. Action requested: Revise one currently listed Interstitial Tank Tightness Test Method and add a new combined listing for the STI-P3[®] Act-100[®] and ACT-100U[®]

- b. Evaluation of the Permatank Interstitial Monitor for Detection of Air and Liquid Leaks.
 - i. Received third-party evaluation, dated: Feb 15, 2012.
- c. Evaluation of the STI-P3® Act-100® and ACT-100U® Double Wall Steel Underground Tanks Interstitial Monitor for Detection of Air & Liquid Leaks.
 - i. Received third-party evaluation, dated: Feb 23, 2012.
- d. Received protocol: Evaluation Procedures for Leak Detection on Double-Wall Underground Tanks (October 14, 2011); revised (March 15, 2013)
 - i. Review and listing of methods were held-up pending review and acceptance of protocol.
 - ii. Protocol covers periodic and continuous interstitial methods (i.e., automated communication of alarm condition)
- e. Note: At the Denver meeting STI reported that no progress had been made in answering the NWGLDE concerns. An STI conference with NWGLDE was tentatively scheduled for the afternoon of October 9, 2013.

l) Tanknology

- a. Action Requested: Review Vacuum interstitial test for double wall tanks.
 - i. Comments: IMOTDM Team and NVTTC Team working together to review request. Method was evaluated using the NVTTC method. Evaluation indicates the purpose of the test is to determine the tightness of a double-wall UST with a dry interstitial space. The STI sponsored protocol is applicable to this method. Draft listing prepared – awaiting acceptance of STI vacuum protocol.
- b. Note: During meeting in Denver, Helen Robbins (NVTTC Team Lead) was asked and agreed to take the lead on finishing the review of this submittal. NWGLDE sought to link with pending STI protocol. That protocol is still under development. Since method was evaluated with NVTTC protocol, should be able to cite that protocol and finalize if requirements have been met.

m) Tank Tech, Inc.

- a. Review Braddock Method by Tank Tech Using Vacuum on the Interstice of an In-situ Upgraded Tank.
 - i. Evaluated using Non-Volumetric Tank Tightness Test Method (Vacuum).
 - ii. The STI sponsored protocol is applicable to this method. Awaiting acceptance of STI vacuum protocol.

7) Aboveground and Bulk Storage-

a) SensorCom submitted some information. Requested information. None provided.

b) MassTech- Team requested use of the correct, current protocol. No response provided.

8) Secondary and Spill Containment- a) Team discussing which protocol to use for Tanknology spill bucket test.

9) Administrative team. Will be updating the hardcopy version at end of year.

Review Team Assignments- Shaheer will be Secondary and Spill Containment Test Method team leader with Bill's retirement.

Protocols under review update- Discussed with the team leader updates (see above).

New Business

1. Update on Battelle QAPP and ATG Testing. Nothing beyond Anne's update (see Day 1). Expect updates soon.

2. Update on Battelle Technology Assessment. Nothing beyond Anne's update (see Day 1). Expect updates soon.

3. Discuss issues related to Renewable Diesel. See notes above.

4. Discuss next LUSTLine Article. Curt will draft an article on the 20th anniversary of NWGLDE. Greg suggested an article on the importance of software versions for ATG.

Old Business

1. Status of looking at existing Interstitial TTT listings. Pending/ under review.

2. Orifice size. Reviewed each listing. Specifically discussed vacuum/audio evaluations and determined that the smaller hole would have a louder acoustic reading. As such, no additional response is needed. Determined that no additional work is needed for the other listings. Can review if questions on other listings arise. Discussed option of scaling the test to make it easier to perform. This will be discussed in an upcoming conference call with the manufacturer this currently affects. Emphasized the difference and required separation of test method development and independent third party evaluation.

3. Discuss when to begin search for new members. Marcia is retiring after the following meeting. Curt proposed waiting to search for both replacements at the same time. The Work Group decided to advertise considering filling up to 2 positions from the applicant pool.

The notification that we are seeking new member(s) will be placed online. (In addition, the Work Group decided to remove the “new” disclaimers from the home page).

4. Lamar is updating his tracking.

5. Update on PAP manual. Proposed adding a section on how to write a white paper. At a minimum, the white paper should include title, author(s), author qualifications, purpose, background, references, justification to include fuel, explanation of the process of making the fuel, applicability to release detection/functionality, definitive conclusions, and any peer reviewers and/or contributors.

6. Heather will send the list of the next meeting choices that the Work Group selected. New Orleans first choice, Louisville, KY, then Albuquerque, NM. Week of March 24 or March 31 with Tuesday travel and meeting Wednesday, Thursday (late), and ½ day Friday.

Friday, September 20, 2013

1. Discussed the relevance of a tank containing Lubrizol/Ultrazol. The NWGLDE previously determined that we are not including the many additives available on the market in our listings.

2. File Retention Committee Report. Bill indicated that all of the records he has have been scanned. He is adding a few recent additions and checking for duplicates. He said that it is almost done. Tim provided one of the hard drives to Bill to download the files.

3. As our chair and vice chair are nearing retirement, they suggested having the chair-elect and vice chair- elect run the next meeting(s). They will start following this meeting.

4. Other issues. None.

5. Next meeting- already covered (see above).

6. Discussed options for Fall 2014. We decided the following locations would be acceptable: Asheville, NC, Rapid City, SD, and Buffalo, NY.

7. Shaheer volunteered to take notes at the next meeting.

Team Meetings

Adjourn

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 Denver, CO
 September 18, 19, 20, 2013

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