<u>Welcome</u>:

By Heather Peters; Chair Elect and acting moderator for this meeting.

<u>Discuss Agenda</u>:

No vendors scheduled to speak in the afternoon session

<u>Introduction</u>:

Welcome Visitors – State of South Dakota – Environment and Natural Resources UST program (Zach Burggraff, Scott Bickler, Terry Florentz).

<u>Team Leader Updates</u>:

1. Lamar Bradley – ATG and VTT Methods
   <u>ATG Completed Review</u>
   Veeder-Root: 8601 Series Console TLS-4 and TLS4b and Mag Probe 20K and 30K.
   <u>ATG Under Review</u>
   Purpora: Change Alert listings to Purpora due to Purpora's acquisition of Alert. Consolidate some listing but work group has concerns about different probe material and shape. They will do evaluations based on current probe design.
   Work Group may need to add comment to evaluation. Lamar will draft some language.
   <u>VTTT Completed Review</u>
   None
   <u>VTTT Under Review</u>
   None
   <u>Other items</u>
   Patriot Sensors: Sent revised listing to company.

2. Shaheer Mahanna – CITLDS Method
   Franklin Fueling: Indicated that its TS 550 is the same as TS 5000. Difference is that the TS 5000 can have more modules. No change in electronics (programming). Need more explanation.

3. Helen Robbins – NVTTT Method
   Tanknology: Vacuum Interstitial Test ("V.I.T") for Double-Wall Tanks – Evaluation indicates the purpose of the test is to determine the tightness of a double-wall UST with a dry interstitial space. NWGLDE previously sought to link with the pending STI protocol. However, since the method was evaluated with the NVTTT protocol, the NVTTT Team will review the company's vacuum interstitial test for double wall tanks. The Work Group completed its review and returned it to Tanknology with comments on December 10, 2010. The Work Group provided additional commentary and inquired into the status of the test method on May 28, 2014. On June 16, 2014 Tanknology replied that it

was no longer seeking listing of the V.I.T. method due to the publishing of PEI RP 1200 intersticial test method.

Tanknology: Vacuum Spill Containment Test – Requested review and listing of this method on June 16, 2014. Review is pending.

4. Lamar Bradley – SIR Method

FDR Services: Bill Strohman has been contacted. So far we have not heard back from him. TeleData SIR program originally written in Cobol was rewritten in C sharp. FDR Services claim none of the algorithms were changed and it operates the same as before. NWGLDE letter was sent giving them the option for reevaluation. If they have no plans to address this issue, what can NWGLDE do? At a minimum we could put a note under comments in the listing.

5. Tim Smith – Interstitial Monitoring and Out-of-Tank Detector Methods

Interstitial Monitoring Completed Review

- PermAlert: PAL-AT Models AT30C, AT75C, AT30K with AGW-Gold Sensor Cable, TFH Hydrocarbon Sensor Cable. Added to Out-Of-Tank Product Detector (Liquid-Phase) May 21, 2014.
- PermAlert: PAL-AT Models AT20C, AT30C, AT50C, AT75C, AT20K, AT30K, AT40K, AT80K with PHLR-S/L and PHLR-P-S/L Hydrocarbon Probes. Revised listing May 21, 2014.
- Franklin Fueling Systems – FE PETRO STP-MLD+G, STP-MLD+AG, STP-MLD+D and STP-MLD+BD Pipeline Leak Detector (for Rigid, Flexible, or Hybrid Combination of Rigid and Flexible Pipelines). Revised listing June 16, 2014.
- Veeder-Root and Acquisitions: TLS-4; TLS-4B; TLS-300, 300C, 300i, 300PC; TLS-350, 350PC, 350R, 350R-PC; TLS-450 Series; Red Jacket ProMax, ProPlus and ProPlusPC with Position Sensitive Interstitial Sensor 794380-333. Revised listing May 21, 2014.

Interstitial Monitoring Under Review

- Franklin Fueling: NWGLDE was asked to list TSP-DMS 12 and 24 inch Discriminating Magnetostrictive Sensors with E85. Team partially completed request by listing the TSP-EIS (Opto-electric); TSP-ULS (Float Switch); and TSP-UHS (Float-Switch) with E85. Information unavailable to list the other types of sensors for E85 at this time.
- OPW: NWGLDE completed 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 (30-3221-2); 30-0323-D-10/D-30/D-10B/D-20B (Q0003-001/002); and the 924B Sump Sensor. Company also requested NWGLDE list various sensors with ethanol blends E10, E15, and E85. All float switches have been listed. Information unavailable to list the other types of sensors at this time.
- Pneumercator Company, Inc: Requested NWGLDE list the following:
  o Reservoir 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.

- o Non-Discriminating Liquid Float-Switch Sensor models LS600 Series, LS600-LD Series, and LS610 with Console Models LC1000 Series, LC2000 Series, E-14, E-29, E700-1, LDE-700, LDE-740, TMS3000, TMS2000, and TMS2000W Series.
- Steel Tank Institute: NWGLDE was asked to revise the listing for Permatank Interstitial Monitor for Detection of Air and Liquid Leaks – Interstitial Tank Tightness Test Method. The group was also asked to add a new combined listing for the STI-P3® Act-100® and ACT-100U® Double Wall Steel Underground Tanks Interstitial Monitor for Detection of Air & Liquid Leaks. The submittals have been back with STI for rework since April 2, 2013. The Work Group has answered subsequent questions from STI in correspondence dated April 15, 2013, May 1, 2013, and December 12, 2013.
- Tank Tech, Inc: Review Braddock Method by Tank Tech using vacuum on the interstice of an In-situ Upgraded Tank. Method was evaluated using Non-Volumetric Tank Tightness Test Method (Vacuum).

6. Peter Rollo– Aboveground and Bulk Storage Tank Methods
   No Activity

7. Shaheer Muhanna– Secondary and Spill Containment Test Methods
   No Activity

8. Curt Johnson – Administration
   Web Page - David Wilson
   - He is now using Dreamweaver to administer web page. Still needs to resolve issues with the left menu under Method Index.
   - Under Links – Suggestion that we eliminate the links listed under Vendors and Miscellaneous.
   - Dave still needs to investigate a way to capture the webpage at a certain point in time to replace the annual listings.
   - (Side note (off topic) – From "INCON TS-STS Sump Test System" evaluation there was a suggestion to take out the sentence in bold? "The US EPA has not set a minimum detectable leak rate for Secondary and Spill Containment Test Methods at the time of this evaluation.")

9. Greg Bareta– Line Leak Detection Methods
   No Activity

Discussion in preparation for afternoon Vendor Presentations

Open Meeting (Vendors):

1. Welcome- No scheduled Vendor Presentations

2. Opened Floor to visiting vendors:

- Howard Dockery (Simmons) – Wants to know time frame for adopting new protocols. NWGLDE expects stakeholder comments in December.
- Sam Gordji – Working on White Paper on Renewable Diesel. Scheduled to present to Work Group next meeting.
- Lorri Grainawi (STI) – Status of use of flow meters (Ken Wilcox) for Secondary Containment testing. Mike Juranty responded that test data provided by Ken Wilcox Associates in using flow meters for induced leak rates of different viscosity fluids looks promising.
- Sam Gordji – Demo "Flow of Fluid through Hole in a Tank". See YouTube video http://www.youtube.com/watch?v=OTNJ7I49XEU

New Business

1. Discuss New Draft EPA Protocols – Tim Smith and Curt Johnson
   - Need Track Changes version of Battelle documents for next round of reviews.
   - Negotiating new contract with Battelle by mid-November.
   - What recourse do we have with Battelle if issues are not addressed? Tim – The contract to update the protocols is between EPA and Battelle. I do not see any direct recourse, per se, NWGLDE has with Battelle.
   - EPA is committed to ensuring that comments from NWGLDE are brought to the attention of Battelle and appropriately addressed.
   - Review Protocols Introduction and Use and get Curt any comments by Sept. 19.
   - Discuss adding type of fuel used when evaluating water sensors in ATG listings since this may differ if water sensor was tested with ethanol blend fuel - Lamar Bradley
   - Do we want to state in a disclaimer or comment that the evaluation was done in a 100% hydrocarbon fuel (no ethanol)? Workgroup decided to add language to disclaimer on the NWGLDE website immediately.
   - A matrix was developed with new sensors tested at different levels. Add to existing revised sensor protocols. Send table to Battelle.
   - Applicability statement – Does it need to be revised? Whose responsibility is it to determine liquid used in evaluation? Discussion: Leave as is and look at removing after new protocols are finalized.
   - When does change in method or equipment merit a new evaluation? Need to think of guidelines as to when it is no longer reasonable or feasible to do a console comparison.
   - When shall we require a full evaluation? Need to get Ken Wilcox's thoughts. Put discussion on next meeting's agenda.

Old Business

1. Update on "Under Review", "Not Listed", "Review Completed" Lists:
   Lamar Bradley presented copy of lists and asked Work Group members to let him know of any changes in the status of the items on the list.

2. Renewable Diesel:
   Received email from Cal Hodge 2ndopinion@aol.com saying Renewable Diesel is exactly like diesel. Workgroup still needs a White Paper on Renewable Diesel.

3. "Capture" web page in place of creating annual listings:

David Wilson has been assigned to find a way to capture a static version of the web page every year which will replace the usual annual listing.

4. Update Vacuum Testing for Interstice of Double Wall Tanks:
    -   The Interstitial Methods Team suggested several changes to protocol as well as noted information required by protocol developers (KWA and STI) 1.5 years ago.
    -   Send Latest to Lori Grainawi (STI) to ensure that we are working from the same understanding.

5. Status of LUSTLINE Article:
    Curt indicated one article currently was complete. Need ideas for future articles:
    -   Heather – How Vacuum from Vapor Recovery affects leak detection on high throughput sites.
    -   Lamar – There are no listed methods for ethanol blends, and software version issues.

6. Discuss PAP Manual:
    Tim indicated it is a work-in-progress.
    -   Tim will add a procedure for developing White Papers and outline minimum requirements based on the recent submittal of the Biodiesel paper.
    -   Tim will send a request to Team leaders to fill-in their blank areas of the Policy and Procedures Manual.

Other Issues

1. Procedure for future NWGLDE Meetings:
    -   If no vendors request a presentation, vendors will be notified 3 weeks beforehand.
    -   If there is no response then there will be no open meeting
    -   Put this in the letter for vendor invitation.
    -   Send email to notify if there is to be no open meeting.

2. Discuss Spring 2015 meeting – Curt Coordinating
    Order of Choices
    1. San Antonio, TX
    2. Austin, TX
    3. Charleston, SC
    Dates: Week of April 6 or Week of April 13

3. Greg Bareta will be taking the minutes for next meeting.

ATTENDANCE LIST
National Work Group on Leak Detection Evaluations
Rapid City, SD
September 10, 11, 12, 2014

Name	Representing	Phone Number	Email address
David Wilson	NWGLDE/Utah DEQ	801-536-4138	dtwilson@utah.gov
Marcia Poxson	NWGLDE/Mich Fire Marshall	517.373.3290	poxsonm@michigan.gov
* Zach Burggraff	~~NWGLDE~~/SDDENR	(605)347-1621	zachary.burggraff@state.sd.us
* Scott Bickler	SD DENR	(605) 362-3500	scott.bickler@state.sd.us
Lamar Bradley	TNUST	(615) 532-0952	Lamar.Bradley@tn.gov
CURT JOHNSON	ADEM	(334) 271-7986	cdj@adem.state.al.us
Helen Robbins	CT DEEP	(860) 424-3291	helen.robbins@ct.gov
PETER Rollo	DNREC/NWGLDE	302-395-2500	PETER.Rollo@STATE.de.us
Mike Juranty	NHDES	603 271-6058	michael.juranty@des.nh.gov
Shaheer Muhanna	EPD	404-362-2579	Shaheer.Muhanna@state.ga.us
Heather Peters	MO DNR	573-751-7877	heather.peters@dnr.mo.gov
TIM SMITH	U.S. EPA/OUST	(703) 603-7158	SMITH.TIMR@EPA.GOV
* TERRY FLORENTZ	SDDENR	(605) 773-3296	terry.florentz@state.sd.us
Randy Boucher	Franklin Fueling	207-571-1137	boucher@franklinfueling.com
William Jones	WRA	800-972-7472	wjones@warrenrogers.com
Lori Grainawi	STI/SPFA	847.428.8265	lgrainawi@steeltank.com
Howard Dockery	Simmons	972-497-9002	Howard.Dockery@Simmons-env.com
Mike Juranty	NHDES	603 271-6058	michael.juranty@des.nh.gov
Sam Gordji		662-234-1179	samgordji@egree.com

6