

TNI Stationary Source Audit Sample (SSAS) Expert Committee

The NELAC Institute Bellevue, WA August 18, 2011





Welcome from Members

Active Committee Members:

- Friedman, Maria (Chair)
- Hayes, Michael
- Klein, Michael
- Lowe, Theresa
- O'Neal, Gregg
- Schapira, Michael
- Serne, Jim
- Swartz, Richard (Vice-Chair)
- Tong, Stanley

- TestAmerica (Laboratory)
- Linde Group (Provider)
- New Jersey DEP (Regulatory Agency)
- CCI Environmental (Stationary Source Tester)
- North Carolina DAQ (Regulatory Agency)
- Enthalpy Analytical (Laboratory)
- TRC (Stationary Source Tester)
- Missouri, DNR (Regulatory Agency)
- EPA, R9 (Regulatory Agency)

Active Associate Members:

- Garber, Ty
- Kassner, Shawn
- Miller, Michael
- Mills, William
- Program Administrator
 - Jackson, Ken

- Wibby Environmental (Provider)
- ERA (Provider)
- Independent consultant
- Mills Consulting (NELAC Assessor)
- TNI





Today's Agenda





- SSAS Program update
- SSAS Table update
- Overview of Method 25 Audit Sample Collection Procedures





Approval of Minutes

| gust 11, 2011 endance Committee member | | | | resent | |
|--|--|---|---------|------------|--|
| tendance ana Friedman - Chair ana Friedman - Chair | | | absent | | |
| (estAmenca (Later) | | Committee member | | - Contract | |
| | | Committee member | | present | |
| inde (Provider) Nichael Klein | | | present | | |
| tear Jersey DEF Colors | Committee member | | - | - | |
| Theresa Lowe CCI Environmental | Committee member | | present | | |
| Gregg O'Near, DAQ (State government) | | | | present | |
| | | Committee member | | | |
| (Michael Schapira Entralpy (Laboratory) | Committee member | | 1 | absent | |
| Jim Serne resphonary Source | | | - | | |
| TRC Solutions Survey of the Trestell Richard Charles Richard Charles Richard Charles Richard Government) EAR Region of Credital Government) Richard Charles Rich | | Committee member | | absent | |
| | | | | present | |
| | | | | present | |
| | | Program Administration Associate member Associate member Associate member | | present. | |
| | | | | present | |
| | | | | | |
| | | | | present | |
| | | | | present | |
| | | | | absent | |
| Mike Miller | Miller Miller (Member at large) Associate memi (Miller Miller (Met AC Assessor) Quest | | 190 | absent | |
| William Kills | | | | present | |
| | | | _ | present | |
| TNI (Alebraster) | | Quest | | present | |
| | | Guest | | present | |
| Paul Maeter (Faul Maeter (Wayne Stollings) 1) Double-check receipt | | Ph. 146.93 | | - | |

staview and approve minutes from teleconference on June 27, 2011



SSAS Program Update





Milestones

| Date | Milestone |
|------------|---|
| 07-07-2008 | SSAS Expert Committee 1st Meeting |
| 12-18-2008 | TNI SSAS Working Draft Standard Published |
| 05-15-2009 | TNI SSAS Voting Draft Standard Published |
| 10-09-2009 | Final TNI SSAS Standard Adopted |
| 09-13-2010 | EPA Final Rule Published (75 FR 55636) |
| 05-18-2011 | EPA Approved TNI SSAS Program |





Current Status

- TNI SSAS Program approved by EPA
- Two Accreditors approved by TNI to accredit Providers
- At least two prospective Providers being evaluated by Accreditors; approval pending
- TNI SSAS Expert Committee completing review of SSAS Table (concentration ranges and acceptance limits)



Next Steps

- TNI Finish review of update to SSAS Table
- TNI Finish audit sample concentration tool
- Accreditation of Providers
- Audit samples commercially available
 - 2 Providers (minimum)
 - Posted at <u>www.epa.gov/ttn/emc</u> at least 60 days before compliance test
- Inform Stationary Source Testers/Facilities of new requirements



Next Steps (cont.)

- Regulators Sign up to access TNI SSAS Central Database
 - Establish point of contact for Providers 70+
 Regulators already signed up
 - Use application forms available at Registration Desk or go online:

nelac-institute.org/ssas/regaccount.php





SSAS Table Review

| | | Stationary Source Audit Sample Revision 1, Effective Decem | | Acceptance Criteria 12 | |
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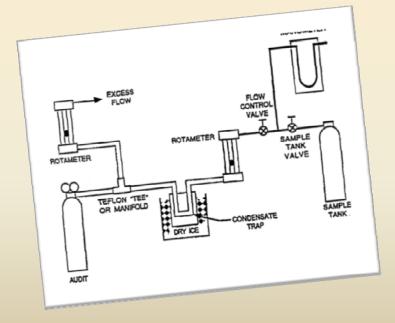
SSAS Table Review

- No changes to Method 25 in next revision (Revision 2)
- Need to define implementation period for Revision 2





Method 25 Audit Collection Procedures





Method 25 Supplies

- Two audit cylinders of different concentrations (if two cylinders are not available then one can be used)
- Two-stage regulator (CGA 350) subject to change (depending on Provider instructions)
- Glass manifold or Teflon tee connection
- Other Swagelok fittings





Method 25 Procedures

- A set of 2 audit samples is to be collected in the field from cylinders of different concentrations
- Collection should be conducted during the field compliance test activities
- Audit cylinder seal may not be broken until the regulatory representative is present and audit sample collection starts – some exceptions apply





 Prior to sampling, the collection tank must be leak checked in accordance with section 8.1.2 of Method 25





- Maximum of approx. 5 liters of audit gas shall be used for each audit sample collected
- Set up the Method 25 train and perform the leak check
- Attach cylinder & Method 25 probe to two of the manifold or tee connections
- Start cylinder gas flow into the manifold or tee
 with the sampling train flow turned off



- Turn on the sampling train flow while adjusting the flow from the audit cylinder to ensure excess audit gas flow from the manifold or tee
- After proper sample flow rate has been obtained in the sampling train, adjust the cylinder flow so only a few cubic centimeters of gas is discharged from the manifold or tee





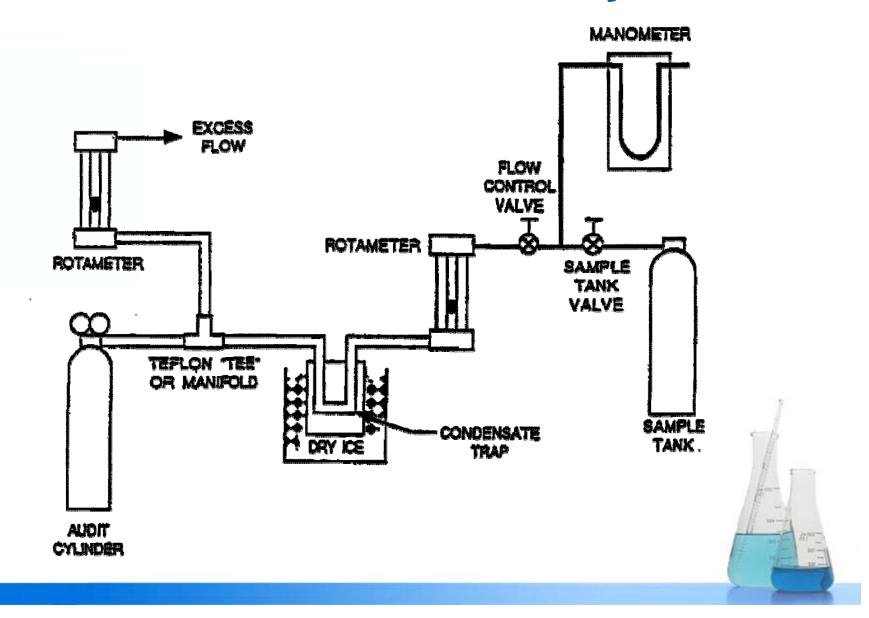
- Use the same sampling flow rate and same sample volume as the stack samples
- The audit should use the same number of collection tanks as required by the average run
- Re-seal the audit cylinders after audit sampling is complete to ensure no more audit gas is collected





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Method 25 Audit System





Method 25 Notes

- The audit cylinders should not be analyzed when the pressure drops below 200 psi
- The possibility of requiring a dedicated manifold for each cylinder was suggested





Questions





Thank you to all who participate and contribute to the TNI SSAS Program!