



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
Secretary

May 27, 2014

Charles A. Frey, Jr.
Highland Tank & Manufacturing Company
4535 Elizabethtown Road
Manheim, PA 17545

Subject: Veeder Root #794380-333 Interstitial Sensor for Highland Double-Wall Tanks (550 to 20,000 gallon capacities)

Dear Mr. Frey:

Pursuant to your request, The North Carolina Department of Environment and Natural Resources (NCDENR) – Underground Storage Tank (UST) Section has reviewed the proposed revised interstitial monitoring equipment (Veeder Root # 794380-333 PSIS) that was submitted on April 03, 2014 (as well as additional information received on 05/19, 05/20, 05/22 & 05/27/14). Based on the submitted information, it appears that the subject equipment will comply with the electronic liquid detecting sensor requirements in 15A NCAC 02N.0901 and .0903, providing that the following conditions are maintained:

1. The Veeder Root Position-Sensitive #794380-333 sensor must be installed in accordance with the Veeder Root “Interstitial Liquid Sensor-Steel Tanks Installation Guide” instructions. These instructions must be provided to all customers/contractors that install the subject tanks in North Carolina. Tank owners or operators must test the sensor and maintain written records in accordance with the manufacturer’s “Testing Procedure” guidelines and 15A NCAC 02N.0901. The Post-Installation and annual operability checks must also include documentation of the alarm test history and console status for this sensor.
2. Periodic integrity testing of the tank interstitial space must be conducted, in accordance with the “Evaluation of the Highland Tank Periodic Interstitial Vacuum Test Procedure for Double-Wall Underground Tanks”, prepared for Highland Tank and Manufacturing Company, Inc., by Ken Wilcox Associates, Inc (KWA) on 12/20/2010 and written records maintained, as required by 15A NCAC 02N.0903. Periodic integrity testing must be conducted before UST system start-up, between six months and the first anniversary of start-up and every three years thereafter. Testing must be done in accordance with the procedures and test durations specified in Table 1 of the submitted Highland Tank “Periodic Interstitial Test Procedure”, based on specific tank sizes listed in the aforementioned KWA Report. These procedures must be provided to all customers/contractors that install the subject tanks in North Carolina. Note that the test method is NOT approved for tanks containing biodiesel fuels (biodiesel content greater than 20%) or alcohol/gasoline blends greater than 10%, or for tank volumes greater than 20,000 gallons.

This letter shall be considered to be an addendum to the equipment listed in the 01/28/2011 NCDENR correspondence. Be advised that any tanks, monitoring equipment or testing procedures that are not specifically listed must be separately evaluated by this Department for compliance with the applicable regulations prior to its use. Feel free to contact me if you have any questions regarding this letter.

Sincerely,

Robert E. Johns, P.E.
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