



PAT MCCRORY

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February 11, 2016

Mr. Jonathan McNeely  
Vice President of Business Development  
Tank Tech, Inc.  
P.O. Box 17  
Blodgett, MO 63824

**Re: Stand-Alone-System (SAS) for Retrofitting In-Place Single Walled Underground Storage Tanks with a Formed-In-Place Double Walled Fiberglass Tank**

Mr. McNeely,

This is in response to your request for review of the above referenced Stand-Alone-System (SAS) for retrofitting an existing single-walled steel and/or fiberglass underground storage tank with a formed-in-place double-walled fiberglass tank. The North Carolina Department of Environment Quality (NCDEQ) – Underground Storage Tank (UST) Section has reviewed the application, and supplemental information and specifications, which has been provided to NCDEQ.

**The SAS is approved for use in North Carolina under the following conditions:**

**General Conditions**

1. SAS is approved for use only with existing FRP tanks or steel tanks not requiring cathodic protection (i.e., steel/jacketed or steel/clad) and installed prior to November 1, 2007. It is not approved for previously lined steel tanks or steel tanks equipped with cathodic protection systems.
2. Each request for SAS installation will be reviewed by the UST Permitting and Inspections Branch of NCDEQ on a case-by-case basis, and must be accompanied by a written letter of explanation for choosing the SAS for the site, a preliminary schedule for installation of the SAS tank(s) and a proposed scope of work.
3. For final approval, the documented findings of a host tank integrity assessment, along with line leak detector testing, sensor operability and functionality test data, tightness testing, etc. are to be submitted as part of the Post-Installation application for review by the UST Permitting and Inspections Branch before the facility operating permit is issued or renewed.
4. The installation of a SAS tank is considered to be a tank repair and does not constitute permanent closure of that UST pursuant to 15A NCAC 02N .0405, .0802 and .0803, nor does it constitute installation of a new double-walled UST pursuant to 15A NCAC 02N .0301 and .0900 and as such will not be considered a new UST per 11/01/2007 rules.
5. Prior to the storage of alternative fuels in a SAS tank, supporting information and documentation regarding compatibility with the product being stored must be provided to the UST Permitting and Inspections Branch as part of the installation request.

6. Tank Tech must generate and provide tank calibration charts with the Post-Installation application so overflow protection controls can be properly recalibrated.
7. Unless replaced with new components during SAS installation, any and all existing overflow control components must be recalibrated to the volume and dimensions of the SAS tank.
8. The SAS tank must be built as a 360° system and shall not be glassed in such a manner as to permit the reuse of the existing tank top and bungs. New bungs, manways and ports for required appurtenances must be formed and installed as part of the SAS tank.
9. Appurtenances that are newly installed with the SAS tank, such as spill buckets, containment sumps and overflow protection components, must meet 15A NCAC 2N .0900 standards.

### Host Tank Specific Conditions

#### Existing Steel/Fiberglass Clad Tanks

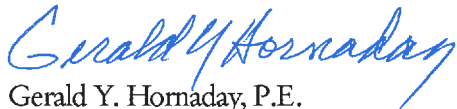
The integrity assessment of the host tank must be performed using API 1631 or NLP 631 standards.

#### Existing Fiberglass Tanks

During the integrity assessment of the host tank, a deflection of more than 1% will require consultation with a Professional Engineer and/or the host tank manufacturer to determine if the host tank is suitable for repair.

Feel free to contact me if you have any questions concerning this approval.

Sincerely,



Gerald Y. Hornaday, P.E.  
Engineer  
NC Department of Environmental Quality  
Division of Waste Management  
Underground Storage Tank Section  
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Enclosure: Secondary Containment Operation & Maintenance Requirements (12/2011)

cc: Ruth Strauss – UST Section (Raleigh, NC)  
Matthew Wegner – UST Section (Raleigh, NC)  
Steve Booe – UST Section (Raleigh, NC)  
Michael Phelps – UST Section (Winston-Salem Regional Office)  
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