

Registrar of Regulations	Date/Time Filed with Registrar of Regulations
AUTHORIZATION TO FILE DOCUMENTS INCORPORATED BY REFERENCE BY DESCRIPTION	

① Agency: State Water Control Board

② Regulation Numbers: VR VAC 9VAC25-91
 Title of Regulation: Facility and Aboveground Storage Tank (AST) Regulation

③ Effective Date of Regulation: _____

④ Name of Document Incorporated by Reference:
 Steel Tank Institute (STI), Standard STI - SP001 "Standard for the Inspection of Aboveground Storage Tanks," Fifth edition, September 2011.

⑤ Attach a summary of the document incorporated by reference, including publication date and a copy of the cover page.

⑥ Document available for inspection at the following location: <u>Department of Environmental Quality, Petroleum</u> <u>Program, 629 East Main Street, Richmond, VA 23219</u> <u>(mailing: P.O. Box 1105, Richmond, VA 2318)</u>	⑦ Copy of referenced document may be procured from: <u>Steel Tank Institute, 944 Donata Ct., Lake Zurich, IL</u> <u>60047, www.steeltank.com/Publications, 847-438-8265</u>
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⑧ Exemptions Claimed Under (Specific Reference):

Administrative Process Act _____

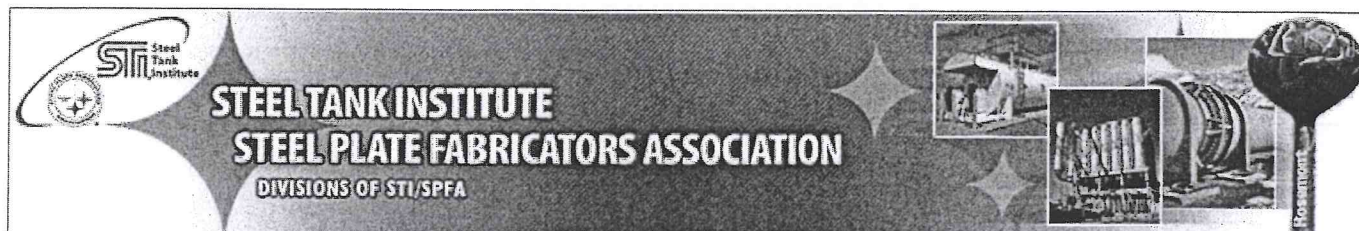
Virginia Register Act _____

Virginia Code Commission Regulations Section 3.3 B 5

Request submitted by: Cindy M. Berndt
Name

Director, Office of Regulatory Affairs, DEQ 7/29/2013
Title Date

Approved: _____
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SP001 Standard for Inspection of Aboveground Storage Tanks, Fifth Edition Issued September 2011

After nearly two years of study and revision by a broad-based committee of experts, the Steel Tank Institute announces the **5th Edition SP001 Standard for the Inspection of Aboveground Storage Tanks**.

Changes were developed through the STI AST Inspection Standards Committee review process. The revised Standard was unanimously approved by a balanced, 21 member committee of STI tank fabricators, federal and state regulators, bulk storage tank owners, tank repair companies, and several other interested parties.

Highlights of the revised SP001 Standard include:

- Elevated tanks previously required a release prevention barrier (in addition to secondary containment) to qualify as a Category 1 tank. This requirement was deleted, as leaks from elevated tanks are visible.
- Double-wall tanks must have overfill prevention in order to be considered as having secondary containment. In the revised Standard, however, overfill prevention may simply be a person watching the fill.
- The requirement for a release prevention barrier to be sufficiently impervious was deleted, to avoid confusion with EPA's definition of secondary containment.
- Language was added to the schedule of inspections concerning the initial inspection date, which is now based on the initial service date of the tank.
- Additional examples of tank configurations were added as examples of tank categories
- Inspection requirements for several types of valves, leak detection equipment, spill containers, etc. were added to the equipment checklists in the Appendix.

The committee's work stemmed in part from revisions of EPA's SPCC regulations to prevent oil pollution of the nation's water, initially published in August 2002. The rule incorporated provisions for all regulated tanks to be integrity tested. National standards such as SP001 play an important role in helping tank owners comply with the SPCC regulation. More information about the EPA's SPCC Rule can be found [here](#).

The **Fifth Edition of the SP001 Standard** can be ordered by clicking [here](#) to visit our Publications Index. If after you purchase the Fifth Edition of SP001 you wish to obtain a redline version which indicates the revisions from the 4th Edition, please send an email to Dana Schmidt dschmidt@steeltank.com

For a list of SP001 Certified Tank Inspectors, click [here](#).

SP001 Standard for Inspection of Aboveground Storage Tanks, Fourth Edition Issued July 2006

The Third Edition of SP001, issued in July 2005, constituted a major rewrite and revision of the Standard to include risk-based inspections of tanks and containers from 55 gallons to approximately 265,000 gallons. Subsequently, public comment on the Standard was solicited through September 2005. Changes to the Standard were developed through the STI AST Inspection Standards Committee process and have now been published as a **Fourth Edition of SP001**. These changes include:

- Revision of secondary containment definitions
- Requirements for double wall tank inspections
- Changes to SP001 Inspector Certification requirements
- Various language clarifications

Changes to the requirements for SP001 Inspector Certifications include:

- STI Certified SP001 AST Inspectors must be "Tank System Inspectors." This level of inspector is also known as the Level 2 inspectors. Because the 3rd and 4th Editions of SP001 include inspections of not only the tank, but also the associated tank systems, the Certified Inspector must have sufficient training in the tank system. This Certification requires both in-person lectures and passing of exams.

- API 653 Certified Inspectors must obtain an "STI SP001 Adjunct Certification" to perform an SP001 inspection. This is to ensure that an API 653 Certified Inspector is familiar with construction of tanks and containers included in SP001 as well as the requirements of a tank system inspection. It is anticipated that this Adjunct Certification will be available through the STI website by the end of 2006.
- Level 2 STI Certified SP001 AST Inspectors that received their certification prior to September 2005 must update their certification to include the updated 3rd and 4th Editions of SP001. It is anticipated that this Updated Certification program will be available through the STI website by Fall of 2006.

SP001 Standard for Inspection of Aboveground Storage Tanks
Third Edition Issued July 2005

New Revisions to SP001 Standard to be Published

After a year of study and revisions by a broad-based committee of experts, Steel Tank Institute is announcing the newest edition of standard SP001, which is now known as "Standard for the Inspection of Aboveground Storage Tanks." The effort completes a cycle of standard-making revisions.

The revised standard incorporates key changes such as:

A risk-based inspection schedule. Tanks with a means of detecting a release of product are inspected less frequently. A system must be capable of diverting leaked product and/or incorporating a release-prevention barrier while providing for prompt detection through periodic inspection by the owner. Single-wall tanks sitting directly on soil pose the greatest risk for an incident and therefore require more frequent inspections.

Inspection of field-erected tanks up to a maximum 30-foot (9.14 meters) diameter and a maximum shell height of 50 feet (15.24 meters). This would equate to a capacity of about 265,000 gallons (1,002,840 liters). This will allow one inspector to inspect virtually all tanks at a facility where both field-erected and shop-fabricated tanks are installed.

Other significant changes include sections on safety considerations, inspection of portable containers (55 gallons or more), suitability-for-continued-service guidance, and expanded periodic inspection checklists.

The committee's work stemmed in part from revisions of the SPCC regulations, created by EPA to prevent oil pollution of the nation's water, which were published in August 2002. The rule incorporated provisions for all regulated tanks to be integrity tested. National standards, such as SP001, play an important role in trying to comply with the regulation.

A balanced number of representatives from major oil companies, engineers and regulators participated in the committee. The STI committee, which unanimously approved the new edition after a year's worth of meetings and teleconferences, was formed last year to reshape the SP001 standard and clarify issues that resulted from trying to provide the owner/operator with a method of SPCC compliance.

The committee anticipates adaptations in 2006 to STI's AST Inspector Certification program. New procedures will address certification requirements of both existing SP001 inspectors and API 653 inspectors.

The **Fourth Edition of the SP001 Standard** can be ordered by contacting STI via phone or clicking [here](#) to visit our Publications Index.

For a List of SP001 Certified Tank Inspectors, click [here](#).



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