

Tank Emission Calculation Tool and Services



PREPARE FOR COMPLIANCE ENFORCEMENT

The U.S. EPA recently proposed an enforcement initiative focusing on emissions from organic liquid storage tanks. According to EPA, storage tanks are potentially significant sources of excess air emissions at many sites, including terminals, refineries, and chemical plants. Some of these tanks are located in ozone nonattainment areas, communities of environmental justice concern, or other areas with sensitive populations.

EPA no longer supports the TANKS 4.09d emission calculation tool for tank emissions due to technical deficiencies in the program. While TANKS 4.09d is still available on EPA's website, EPA no longer recommends its use. Facilities operating large storage tanks should review their emission calculation methodologies to ensure they are accurate and defensible in a case of EPA review.

T3, a division of Trinity Consultants, can help you prepare for EPA review of storage tanks emissions by verifying emissions data and assisting with the selection and implementation of an emissions calculation tool.

TRINITY/T3'S TANK TOOL

Our Tank Tool is an Microsoft® Excel®-based tank emissions calculation program that follows the emission estimation procedures from Chapter 7 of U.S. EPA's *Compilation of Air Pollutant Emission Factors* (AP-42) for volatile organic chemical (VOC) emissions from storage tanks. It also resolves the technical issues with TANKS 4.09d and provides additional functionality for non-routine emissions events.

Accurate, Reliable Calculations

With over 70+ equations and 100+ variables, the AP-42 storage tank methodologies are not simple emission calculations. Trinity/T3's Tank Tool is easy to use and familiar to those who already use Excel spreadsheets. The spreadsheet

is designed with a centralized location for users to enter data such as tank design data, tank fitting data, and throughput and stock data. The tool can be easily integrated with a tank throughput tracking system. Each calculation step is carefully noted with description, symbols, and calculation references. Calculation steps for each tank are organized on a single worksheet tab, which makes it easier for error tracking and report printing.

Enhanced Capabilities

In addition to the standard emissions calculations such as working loss and standing/breathing loss, Trinity/T3's Tank Tool also incorporates non-routine emission calculations. With the increasing emission tracking requirements of Maintenance Startup and Shutdown (MSS) calculations, an accurate tool to track tank roof landing, cleaning, and service change is essential. Effective April 29, 2016, refineries must keep a record of each floating roof landing. Our Tank Tool was built to collect all the necessary input data and track emissions for MSS compliance.

Trinity/T3's Tank Tool also includes a full speciation calculation option for chemical companies. Users can enter the speciation profile for a stock without searching for details on the mixture properties. Our Tank Tool will calculate the mixture properties based on the full speciation profile. Tasks can be associated with an organizational unit such as a business line, plant, area, unit, and source and then filtered to display only those tasks that belong to a specific organizational unit.

TANK TOOL FEE SCHEDULE

- \$2,000 licensing fee per site
- Discounts available for multiple site licensing
- Support and maintenance contracts are offered separately

ENVIRONMENTAL EXPERIENCE, TECHNOLOGY EXPERTISE

Trinity/T3 can help evaluate your tank emissions management processes to choose the best tool for permitting, compliance tracking, and emission reporting. With EPA enforcement initiative imminent, having an accurate, reliable, and easy to use tank emission calculation tool is key for facilities operating organic liquid storage tanks.

In addition to our application development, selection, and implementation support, Trinity/T3 provides a broad spectrum of tank emission consulting services, such as tank design data, tank fittings data, and tank activity data as well as custom, on-site training. Trinity can also provide complete permit application support for tank projects from strategy to emission calculations, through permit application preparation and support with state and local agencies.

Data Challenges

One key challenge (and potential source of error) in tank emission calculations is outdated or incorrect tank design and liquid product characterization data. Facilities should complete the following for each unit:

- Update product chemical/physical properties with reasonable HAP speciation
- Record and report tank turnaround inspection and maintenance activities
- Update tank seal and design parameters

To ensure compliance, it is important to check regulatory requirements and operating permit limits. Facilities may also need to revisit historical emission limits or permitting analyses when updating emission calculation methodologies due to the technical issues with TANKS 4.09d.

WHY CHOOSE T3?

At T3, our core business is helping organizations operate more efficiently and cost-effectively, while improving environmental performance. T3 offers appropriately scaled solutions to businesses of all sizes through the delivery of mobile solutions, custom compliance solutions, and EHS Management Information Systems.

A History of Innovation

T3 was launched in 1995 when Trinity Consultants, a leader in environmental consulting, responded to client needs by focusing on the specialized area of EHS management solutions. Today, T3 is an industry leader with a rare mix of EHS professionals and Information Technology (IT) experts. This powerful combination gives T3 unmatched capability in applying technology to solve industry's information management challenges. We have a broad range of solutions to meet individual client needs, all designed to save you time and money.

In every way, T3 is committed to helping you achieve the highest standards – of business performance and environmental responsibility. For more information about Trinity/T3's Tank Tool and tank emissions services, please contact us at (972) 661-8121 or email T3support@trinityconsultants.com.

Visit tthree.com to learn more.



Information Technology for EH&S Management

972.661.8121 ■ Fax: 972.385.9203 ■ sales@tthree.com ■ tthree.com

T3 is a division of Trinity Consultants and a registered trademark of Trinity Consultants, Inc. Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Copyright 2016. All rights reserved.