

TankESP for Tank Emission Calculations



MANAGING COMPLIANCE WITH TECHNOLOGY

Storage tanks are an integral part of operations for petroleum refineries, chemical manufacturing plants, and large organic liquid logistics terminals. Recently, the U.S. EPA proposed enforcement initiatives focusing on emissions from organic liquid storage tanks. Facilities should review their current tank emission compliance demonstration methodologies to ensure they are appropriate and defensible in a case of EPA review.

The U.S. EPA is no longer supporting TANKS 4.09d, the emission calculation tool historically used for tank emissions, due to documented technical deficiencies, and no longer recommends its use. In light of these developments, having an accurate, reliable, and easy to use tank emission calculation tool is key for facilities operating organic liquid storage tanks.

OUR PARTNERSHIP

TankESP was developed by well-known tank expert Robert Ferry at TGB Partnership. As a partner and an authorized distributor, Trinity Consultants/T3 provides license processing and implementation support for TankESP. We have extensive domain knowledge as well as experience using and implementing TankESP.

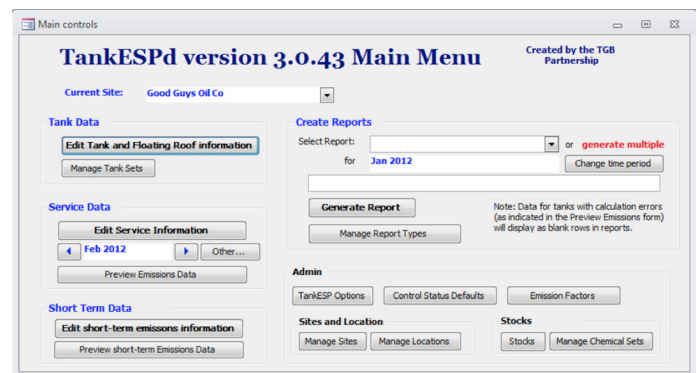
“Trinity Consultants/T3 exhibits the integrity and technical proficiency that I appreciate in a corporate partner, and I have the utmost trust in their capability to support my TankESP software.” – Rob Ferry

Tank emission consulting services

Trinity Consultants is widely recognized as a leading air quality focused consulting firm and has the expertise to assist clients in addressing all regulatory and compliance issues for tanks. In addition to our 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. With the EPA enforcement initiative imminent, it is critical that facilities operating large storage tanks ensure their emission calculation methodologies are accurate.



TankESP

TankESP is a tank emissions calculation program that uses 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.

TankESP is widely regarded as the most accurate tank emission calculation tool in the market because it was designed by one of the authors of the AP-42 Chapter 7.1 and American Petroleum Institute (API) documents 19.1, 19.2 and 19.4.

Easy to use functionality

TankESP is available in spreadsheet (Microsoft® Excel®) or database (Microsoft® Access®) format. Both TankESP formats allow for easy block copy and paste functions to quickly populate throughput and product data for routine emission calculations. The database version allows users to copy an entire existing site as a new site, to easily create what-if scenarios for permitting purposes.

Accurate, reliable calculations

With over 70+ equations and 100+ variables, the AP-42 storage tank methodologies are not simple emission calculations. TankESP provides an easy to use interface and also calculates tank landing emissions, tank cleaning emissions, and 12-month rolling emission calculations. The database version can also provide short-term emissions estimate and flashing emission calculations.

Advanced features

The database version of TankESP provides advanced features to users including no limits on the number of tanks that can be added and no limit on the number of stocks, or on the number of pure chemicals that may be added to the database for purposes of speciation. The database also allows for the storage of historical data with the ability to retrieve past data entries for a given time period.

TankESP follows typical database architecture where the code resides in the 'front-end' and the data resides in tables in the 'back-end'. This allows replacement of the front-end during a software upgrade while retaining all of the historical data in the back-end thus avoiding the need to reenter data (unless the upgrade involves a revision of the back-end). The spreadsheet version requires re-entry of data when upgrading to a newer version.

Licensing

Multiple licensing options are available to best meet your compliance needs. Purchasing a database license includes the use of the spreadsheet version as well. Single site licenses allow for multiple users located at a single industrial facility.

	License Fee	Annual Maintenance	Total Initial Cost
Single-Site License			
Excel Spreadsheet (TankESP)	\$4,500	\$1,750	\$6,250
Runtime Database (TankESP_d)	\$6,000	\$2,500	\$8,500
Corporate License			
Excel Spreadsheet (TankESP)	\$28,000	\$5,500	\$33,500
Runtime Database (TankESP_d)	\$37,500	\$7,500	\$45,000

WHY CHOOSE T3?

T3 was launched in 1995 when Trinity Consultants, an international 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 IT experts. This powerful combination gives T3 unmatched capability in applying technology to solve industry's EHS information management challenges.

For more information about TankESP and Trinity/T3's related 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

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