

## 4.0 ORGANIC LIQUID STORAGE TANK

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### Process Description

A storage tank is defined in [Regulation 8-5-202](#) as any container, reservoir, or tank used for the storage of organic liquids, excluding tanks, which are permanently affixed to mobile vehicles such as railroad tank cars, tanker trucks or ocean vessels. Storage tanks require a permit if they have a capacity of 260 gallon or greater and store liquids with 1 wt% or greater organic compounds or concentrated acids. [Regulation 2-1-123](#) provides the specific permit exemptions for storage tanks.

### Completeness Determination

The following District forms should be completed and fees provided for organic liquid storage tanks. Use the [Completeness Determination Checklist](#) to verify completeness. Use the [Data Form Guidance](#) to ensure that the forms are completed correctly. Use the [Fee Calculation Guidance](#) to ensure that the fees are calculated accurately.

1. [Form 101-B](#) (one for facility).
2. [Form T](#) (one per source).
3. Material Safety Data Sheet for each organic liquid used, if it is a mixture of compounds.
4. If storage tank exhausts into add-on abatement device, [Form A](#) (one per device).
5. If Health Risk Screening is triggered, [Form RSA](#) (one per source).
6. Fees, calculated per [Regulation 3 \(Schedule C\)](#).

### Emission Calculations

TANKS is a Windows-based computer software program that estimates volatile organic compound (VOC) and hazardous air pollutant (HAP) emissions from fixed- and floating-roof storage tanks. TANKS is based on the emission estimation procedures from [Chapter 7 of EPA's Compilation Of Air Pollutant Emission Factors \(AP-42\)](#). The [user's manual](#), available in Adobe Acrobat format and WordPerfect, explains the many features and options of TANKS. The program includes on-line help for every screen. Also, there is an extensive [Frequently Asked Questions](#) section available to answer most questions. The permit engineer should include a copy of the printed, detailed TANKS report with their evaluation report.

### Applicable Requirements

#### District Rules and Regulations

Storage tanks are subject to the requirements of [Regulation 8-5](#). [Regulation 8-5-301](#) requires a vapor loss control device based on the tank capacity of the storage tank and the true vapor pressure of the organic contents of the tank. The other standards of [Regulation 8-5](#) specific the equipment requirements of the vapor loss control devices and the tank itself. Storage tanks located at bulk plants may also be subject to the requirements of [Regulation 8-6](#) (Subsection 8-6-304, Deliveries to Storage Tanks). The permit engineer should review the proposed storage tank application to ensure that the proposed storage tank will have complying vapor loss control devices and that the TANKS program includes such devices as inputs in the program in estimating emissions of VOCs and HAPs.

#### New Source Performance Standards (NSPS)

Storage tank may be subject to the NSPS, if it has a capacity greater than or equal to 75 cubic meters (m<sup>3</sup>) (19,815 gallons) that stores volatile organic liquids for which construction, reconstruction, or modification is started after 23 July 1984. An [applicability determination flow chart](#) is available to assist in determining NSPS applicability. The permit engineer should review the proposed storage tank application to ensure that the proposed storage tank is either exempt from the NSPS or complies with the NSPS. There is [policy](#) regarding NSPS requirements for Slotted Gauge Wells and Automatic Bleeder Vents on New External Floating Roof Tanks.

#### Best Available Control Technology (BACT)

BACT for Storage Tanks is specified in the [BACT/TBACT Workbook](#). The following are the applicable BACT requirements for:

- Storage Tanks
- [Storage Tanks - External Floating Roof, Organic Liquids](#)

- [Storage Tanks - Fixed Roof, Organic Liquids, <20,000 gal](#)
- [Storage Tanks - Fixed Roof, Organic Liquids, >=20,000 gal](#)
- [Storage Tanks - Internal Floating Roof, Organic Liquids](#)

Inform the [BACT Coordinator](#) of updates to the BACT/TBACT Workbook.

California Environmental Quality Act (CEQA)

Permit applications which are reviewed following the specific procedures, fixed standards and objective measurements set forth in this chapter (4.0) are classified as ministerial and will accordingly be exempt from CEQA review per [Regulation 2-1-311](#).

In addition to the above-mentioned source-specific applicable requirements, other requirements may also be applicable depending on the facility, its application emissions, and its source location:

- |  |  |
|--|--|
| <input type="checkbox"/> Offsets                                 | <input type="checkbox"/> School Notification     |
| <input type="checkbox"/> Prevention of Significant Deterioration | <input type="checkbox"/> Risk Screening Analysis |

**Permit Conditions**

Standardized conditions for storage tanks are available from the [Permit Condition Guidance](#). Refer to the [Evaluation Report Template Guidance](#) to obtain the Microsoft Word formatted permit conditions for this source category.