

In 2006 EPA posted an update to Section 7.1, Organic Liquid Storage Tanks, in *AP-42, Compilation of Air Pollutant Emission Factors*. The updates included changes to two fitting types in Table 7.1-12 DECK-FITTING LOSS FACTORS, kfa, kfb, AND m, AND TYPICAL NUMBER OF DECK FITTINGS, NF

The deck fittings table in the TANKS program can be updated to reflect the changes in the zero miles-per-hour loss factor for the following deck fittings:

- Fixed roof support column well, Built-up column, ungasketed sliding cover:  
K-fa (lb-mole/yr) was 47, updated to 51
- Ladder well, Sliding cover, ungasketed:  
K-fa (lb-mole/yr) was 76, updated to 98

If no specific information is available, these values can be assumed to represent the most common or typical deck fitting currently in use for internal floating roof tanks.

You can update the fittings in the TANKS program by adding the two records below to the fitting table.

Close the tank records browser window. Open the **Data/Fittings/Edit Database** menu. From the **Fitting Factor** window, click on **Add New**. Choose the **Fitting Type** and fill in the **Status** with the information below. Update the **Loss Factors, K-fa** and **Save** the record.

As long as you continue to use the same tank database (eg. Tankdata.mdb) these fitting options will be available to you when you create a floating roof tank with deck fitting options.

The screenshot shows the 'Fitting Factor' dialog box. At the top, 'Fitting Type' is set to 'Column Well (24-in. Diam.)' and 'Status' is 'Updated: built up col. sliding cover, ungask.'. Below this, the 'Loss Factors' section contains: 'K-fa (lb-mole/yr):' with a text box containing '51', 'K-fb (lb-mole/(mph)\*M-yr):' with a text box containing '0', and 'M (dimensionless):' with a text box containing '0'. The 'Default Quantity' is '1' and 'API Certification Number' is empty. At the bottom are buttons for 'Add New', 'Delete', 'Save', 'Close', and 'Help'.

The screenshot shows the 'Fitting Factor' dialog box. At the top, 'Fitting Type' is set to 'Ladder Well (36-in. Diam.)' and 'Status' is 'Updated: sliding cover, ungasketed'. Below this, the 'Loss Factors' section contains: 'K-fa (lb-mole/yr):' with a text box containing '98', 'K-fb (lb-mole/(mph)\*M-yr):' with a text box containing '0', and 'M (dimensionless):' with a text box containing '0'. The 'Default Quantity' is '1' and 'API Certification Number' is empty. At the bottom are buttons for 'Add New', 'Delete', 'Save', 'Close', and 'Help'.