



**Kansas Department of Health and Environment  
Division of Environment  
Bureau of Air**

**Liquid Storage Tanks/Vessels at Oil and Natural Gas Production Stations**

- 1) Source ID Number: \_\_\_\_\_
- 2) Company/Source Name: \_\_\_\_\_
- 3) Emission Unit Identification and Number: \_\_\_\_\_
- 4) Type of Tank:      1. External Floating Roof (E)      \_\_\_\_\_  
                                  2. Internal Floating Roof (I)      \_\_\_\_\_  
                                  3. Horizontal Fixed Roof (H)      \_\_\_\_\_  
                                  4. Vertical Fixed Roof (V)      \_\_\_\_\_  
                                  5. Domed External Floating Roof (D)      \_\_\_\_\_

5) Complete the following table:

Measurement, Physical State, etc.	External	Internal	Horizontal	Vertical	Domed External
Shell height (ft)					
Diameter (ft)					
Shell length (ft)					
Maximum liquid height (ft)					
Average liquid height (ft)					
Working volume / tank volume (gal)					
Turnovers per year					
Net throughput (gal/yr)					
Tank heated (yes/no)					
Tank underground (yes/no)					
Self-supported roof? (yes/no)					
Number of columns					
Column diameter (ft)					
Shell color/shade					
Shell condition (good/poor)					
Shell paint condition (good/poor)					
Roof color/shade					
Roof paint condition (good/poor)					

Liquid Storage Tank/Vessels (cont.)

Measurement, Physical State, etc.	External	Internal	Horizontal	Vertical	Domed External
Roof type (cone, dome, pontoon, doubledeck)					
Roof height (ft)					
Dome roof radius (ft)					
Cone roof slope (ft/ft)					
Tank construction (welded, riveted)					
Primary seal (vapor-mounted, liquid-mounted, mechanical shoe)					
Secondary seal (weather shield, rim-mounted, none)					
Fitting category (typical, controlled, detail)					
Vacuum setting (psig)					
Pressure setting (psig)					
Deck type (bolted, welded)					
If bolted, deck construction					
If bolted, deck seam length (ft)					
Deck fitting (typical, controlled, detail)					
Chemical category of liquid (crude oil, petroleum distillate, organic liquid)					
Single or multiple component mixture					
Chemical name					
CAS number					
Vapor pressure of tank if different than ambient (psig)					
Temperature of tank if different than ambient (°F)					

Liquid Storage Tank/Vessels (cont.)

6) Tank shape: cylindrical \_\_\_\_\_ spherical \_\_\_\_\_ other, describe \_\_\_\_\_

7) Tank material: steel \_\_\_\_\_ fiberglass \_\_\_\_\_ other, describe \_\_\_\_\_

8) If tank is fixed roof, check the type of vapor recovery system:

Liquid absorption \_\_\_\_\_ Vapor compression \_\_\_\_\_ Carbon absorption \_\_\_\_\_  
None \_\_\_\_\_ Other, describe \_\_\_\_\_

9) Tank filling source: pipeline \_\_\_\_\_ railcar \_\_\_\_\_ truck \_\_\_\_\_ other, specify \_\_\_\_\_

10) Type of filling: submerged \_\_\_\_\_ splash \_\_\_\_\_

11) Maximum rate at which tank can be emptied \_\_\_\_\_ gpm filled \_\_\_\_\_ gpm

**Is this storage vessel subject to any of the following NSPS (40 CFR 60) subparts?**

12) (Subpart Kb - Volatile Organic Liquid Storage Vessels) Does the storage vessel have a capacity greater than or equal to 75 m<sup>3</sup> (19,813 gallons) and is used to store volatile organic liquids in which construction, reconstruction, or modification commenced after July 23, 1984?

Yes \_\_\_\_\_ No \_\_\_\_\_ Exempt \_\_\_\_\_

13) (Subpart OOOO-Oil and Natural Gas) Does the storage tank have the potential to emit greater than 6 tons per year of volatile organic compounds?

Yes \_\_\_\_\_ No \_\_\_\_\_ Exempt \_\_\_\_\_

14) Reason for any exemptions: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_