



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

**Liquid Storage Tanks/Vessels**

- 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)					
Roof type (cone, dome, pontoon, doubledeck)					

Liquid Storage Tank/Vessels (cont.)

Measurement, Physical State, etc.	External	Internal	Horizontal	Vertical	Domed External
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)					

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

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

Liquid Storage Tank/Vessels (cont.)

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 Part 60) Subparts?**

12) (Subpart K - Petroleum Liquid Storage Vessels) Does the storage vessel have a capacity greater than 151,416 liters (40,000 gallons) but not exceeding 246,052 liters (65,000 gallons), and commenced construction or modification after March 8, 1974 and prior to May 19, 1978?

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

13) (Subpart K - Petroleum Liquid Storage Vessels) Does the storage vessel have a capacity greater than 246,052 liters (65,000 gallons) and commenced construction or modification after June 11, 1973 and prior to May 19, 1978?

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

14) (Subpart Ka - Petroleum Liquid Storage Vessels) Does the storage vessel have a capacity greater than 151,416 liters (40,000 gallons) and for which construction commenced after May 18, 1978 and prior to July 23, 1984?

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

15) (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 \_\_\_\_\_

16) (Subpart XX - Bulk Gasoline Terminals) Does the facility have a bulk gasoline terminal site?

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

Have the loading racks at the bulk gasoline terminal been constructed or modified after December 17, 1980?

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

17) (Subpart UU – Asphalt Processing and Asphalt Roofing Manufacturing) Is the tank an asphalt storage facility at a petroleum refinery or an asphalt roofing plant; or a mineral storage tank at an asphalt roofing plant; and did the equipment commence construction or modification after November 18, 1980?

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

Is the equipment an asphalt storage tank or blowing still at an asphalt processing plant, petroleum refinery, or asphalt roofing plant; and does the asphalt storage tank or blowing still process and/or store asphalt used for roofing only or for roofing and other purposes; and did the equipment commence construction or modification after November 18, 1980?

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

Liquid Storage Tank/Vessels (cont.)

Is the equipment an asphalt storage tank or blowing still at an asphalt processing plant, petroleum refinery, or asphalt roofing plant; and does the asphalt storage tank or blowing still process and/or store only nonroofing asphalts; and did the equipment commence construction or modification after May 26, 1981?

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

18) (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 \_\_\_\_\_

19) (Subpart OOOOa-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 \_\_\_\_\_

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

\_\_\_\_\_

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