FOR OHIO EPA USE
FACILITY ID_____

EU ID PTI#

EMISSIONS ACTIVITY CATEGORY FORM
STORAGE TANK

This form is to be completed for each storage tank for which a permit is required. State/Federal regulations which may apply to storage tanks are listed in the instructions. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

1. Reason this form is being submitted (Check one)

   ☒ New Permit ☐ Renewal or Modification of Air Permit Number(s) (e.g. T001) _____

2. Type of tank: ☒ Fixed roof tank ☐ Variable vapor space tank ☐ Pressure tank
   ☐ External floating roof tank ☐ Internal floating roof tank

3. Location of tank: ☐ Indoors ☒ Outdoors ☐ Underground

4. a) Tank capacity: ____6,000_____gallons or _____ barrels

   If capacity is provided in barrels, enter the number of gallons per barrel: _____

   b) Working volume, if different from tank capacity: _____gallons or _____ barrels

5. Shape and dimensions:

   ☒ Cylindrical ☐ Spherical ☐ Other, specify _____

   ☐ Horizontal tanks:
   Tank shell length: _____ft.
   Tank shell diameter or width _____ft.

   ☐ Vertical tanks:
   Tank shell height: _____ft.
   Tank shell diameter or width: _____ft.

6. Tank shell material: ☐ Steel ☐ Aluminum ☐ Other, specify _____

7. If this tank is located outdoors and above ground, provide the paint color of the tank's shell and roof and indicate the condition of the paint.

   Shell:
   ☐ Aluminum (specular) ☐ Gray (dark) ☐ White ☐ Red (primer)
   ☐ Aluminum (diffuse) ☐ Gray (light) ☐ Other, specify _____

   Roof:
   ☐ Aluminum (specular) ☐ Gray (dark) ☐ White ☐ Red (primer)

☐ Aluminum (diffuse) ☐ Gray (light) ☐ Other, specify _____
Condition of paint: ☐ Good ☐ Poor

8. If this tank is a variable vapor space tank or is interconnected to a variable vapor space tank, complete the following:

   a) Capacity of vapor expansion system: _____gallons or _____ barrels

   b) Identify all tanks and other vapor sources interconnected to the vapor expansion system:

   _____

9. If this tank is subject to the following federal rules, complete the following:

   ☐ New Source Performance Standards under 40 CFR 60, Subpart Ka, "Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984"

      a) Date of initial fill with petroleum liquid_____

      b) Was tank out of service for a period of a year or more? ☐ Yes ☐ No
      If yes, identify the date of subsequent refilling with petroleum liquid after the most recent out-of-service period of a year or more. _____

   ☐ Maximum Achievable Control Technology (MACT) Standards under 40 CFR 63, Subpart G (HON Tanks)

      a) This tank is defined as a: ☐ Group 1 storage vessel ☐ Group 2 storage vessel

      b) At the storage temperature, maximum true vapor pressure of total HAPs:_____

10. Supplemental data, check all that apply:

   ☐ Tank was converted from an external floating roof tank or a fixed roof tank to an internal floating roof tank; provide type and date of conversion: _____

   ☐ Tank is used to store produced crude oil or condensate prior to custody transfer.

   ☐ Tank is insulated; describe: _____

   ☐ Tank is heated and indicate temperature (in degrees Fahrenheit): _____

11. Material stored ___Acids_____ Trade Name _____

    Density: __9 to 15_____lbs/gal or _____ ^{o}API Producer _____

12. Temperature of stored material: Average _____^{o}F and Maximum _____^{o}F

13. Vapor pressure of stored material:

    a) Actual vapor pressure: _____psia at average storage temperature

_____psia at maximum storage temperature

b) Reid vapor pressure, in psia:
Average _____
Minimum _____
Maximum _____

c) If material stored is a gas or liquified gas, provide the pressure at which it is stored:
_____psi gauge at _____^{o}F

14. The vapor molecular weight: _____lbs/lb-mole

15. If the material is a liquid other than gasoline, fuel oil, kerosene, crude oil, lubricant or other petroleum liquid, answer the questions below:

Is it a photochemically reactive material? ☐ Yes ☒ No

16. Is the material a hazardous waste? ☐ Yes ☒ No
If yes, identify type (EPA hazardous waste number) _____

17. Type of filling: ☐ Splash ☒ Submerged ☐ Other, specify _____

18. Indicate the year (or 12-month period) for which throughput is provided in items 19 and 20:_TBD___

19. The maximum daily throughput of material stored: __250___gallons or _____ barrels.

20. Maximum annual throughput of material stored: __90,000____gallons or _____barrels.

21. Identify the control equipment associated with this tank.

a) Type of vapor control system _____

b) Date tank was equipped with or vented to vapor control system (month/year) _____

22. Complete the table below for any pressure or vacuum relief vent valve.

Type of Vent Valve	Pressure Setting	Vacuum Setting	If pressure relief is discharged to a vapor control system, identify the vapor control system

If this is a Fixed Roof, Variable Vapor Space or Pressure Tank, complete items 23 through 27:

23. If the tank is vertical, what type of roof does it have?

☐ Cone roof Height: _____ft ☐ Dome roof Height: _____ft

24. The average height of the liquid material stored within the tank during the year: _____ft.

25. The maximum height of the liquid material stored within the tank during the year: _____ft.

26. The average liquid surface temperature: _____ ^{o}F

27. Is this tank bolted or riveted construction? ☐ Yes ☐ No

If this tank is an <u>External</u> Floating Roof Tank, complete items 28 through 34:

28. Is the external floating roof domed? ☐ Yes ☐ No

29. Type of floating roof: ☐ Double Deck ☐ Pontoon ☐ Other, specify _____

30. Type of shell construction: ☐ Welded ☐ Riveted or bolted

31. Are all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, main roof drain, emergency roof drains and slotted gauging/sampling wells, equipped with both a cover, seal or lid without visible gaps and a projection into the tank below the liquid surface?

☐ Yes ☐ No

If no, explain: _____

32. Is there a <u>slotted</u> gauging/sampling well?

☐ Yes ☐ No

If yes, is it equipped with an object which floats on the liquid surface within the well and which covers at least 90 percent of the area of the well opening?

☐ Yes ☐ No

33. On the blank lines to the left of the various types of roof fittings shown below, indicate the number, if any, of each fitting.

Access hatch (24-inch diameter well)
_____Bolted cover, gasketed
_____Unbolted cover, ungasketed
_____Unbolted cover, gasketed

Vacuum breaker (10-inch diameter well)
_____Weighted mechanical actuation, gasketed
_____ Weighted mechanical actuation, ungasketed

Unslotted guide-pole/sample well (8-inch diameter unslotted pole, 21-inch diameter well)
_____ Ungasketed sliding cover ☐ With sleeve
_____ Gasketed sliding cover ☐ With sleeve ☐ With wiper

Slotted guide-pole/sample well (8-inch diameter unslotted pole, 21-inch diameter well)
_____ Ungasketed sliding cover, without float _____ Gasketed sliding cover, without float
_____ Gasketed sliding cover, with float

Gauge-float well (20-inch diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover, gasketed

Gauge-hatch/sample well (8-inch diameter)
_____ Weighted mechanical actuation, gasketed
_____ Weighted mechanical actuation, ungasketed

Roof leg (3-inch diameter)

_____ Adjustable, pontoon area	☐ Gasketed	☐ Ungasketed	☐ Sock
_____ Adjustable, center area	☐ Gasketed	☐ Ungasketed	☐ Sock
_____ Adjustable, double-deck roofs			
_____ Fixed			

Roof drain (3-inch diameter)
_____ Open
_____ 90% closed

Roof leg (2-1/2-inch diameter)
_____ Adjustable, pontoon area
_____ Adjustable, center area
_____ Adjustable, double-deck roofs
_____ Fixed

Rim vent (6-inch diameter)
_____ Weighted mechanical actuation, gasketed
_____ Weighted mechanical actuation, ungasketed

34. The average wind speed at the tank site: _____mph.

If this tank is an <u>Internal</u> Floating Roof Tank, complete items 35 through 41:

35. Type of floating decks:

☐ Contact deck ☐ Noncontact deck

36. Type of roof above floating decks: ☐ Column-supported ☐ Self-supporting

37. If roof is column-supported, identify the type of column construction:

☐ 9-inch by 7-inch built-up columns ☐ Other, specify _____
☐ 8-inch diameter pipe columns

38. Floating deck seam construction:

☐ Welded ☐ Bolted ☐ Other, specify _____

39. If deck seams are bolted, complete a) or b):

a) ☐ Continuous sheet construction; specify width of sheets (e.g., 5 ft, 6 ft, or 7 ft):_____

☐ Panel construction; specify size of panels (e.g., 5 ft x 7.5 ft, or 5 ft x 12 ft):_____

b) Total length of bolted deck seams: _____ft

Total area of floating deck: _____sq ft

40. On the blank lines to the left of the various types of floating deck fittings shown below, indicate the number, if any, of each fitting.

Access hatch (usually one)
_____Bolted cover, gasketed
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed

Automatic gauge float well (usually one)
_____ Bolted cover, gasketed
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed

Deck supports (roof legs or hanger well)
_____ Adjustable
_____ Fixed
_____ Stub drains (1-inch diameter; not used on welded contact deck)

Ladder well (usually one)
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Column wells
_____ Pipe column, flexible fabric sleeve seal
_____ Pipe column, gasketed sliding cover
_____ Pipe column, ungasketed sliding cover
_____ Built-up column, gasketed sliding cover
_____ Built-up column, ungasketed sliding cover

Sample pipe or well (usually one)
_____ Slotted pipe, gasketed sliding cover
_____ Slotted pipe, ungasketed sliding cover
_____ Sample well, slit fabric seal (10% open area)

Vacuum breaker (10-inch diameter)
_____ Weighted mechanical actuation, gasketed
_____ Weighted mechanical actuation, ungasketed

41. Are all openings on the floating deck, except stub drains, equipped with a cover, seal or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling?

☐ Yes ☐ No

If no, explain: _____

If this tank is an <u>Internal or External</u> Floating Roof Tank, complete items 42 through 47:

42. Type of seal between floating roof and tank well:

☐ Single seal (primary seal only)
☐ Single seal with weather shield (primary seal with weather shield)
☐ Dual seals (primary seal with secondary shield mounted above it)

43. Primary seal information:

Manufacturer_____
Make or model_____
Date installed_____
(month/year)

Type:
☐ Liquid-mounted, liquid-filled
☐ Liquid-mounted, resilient foam-filled
☐ Vapor-mounted, resilient foam-filled
☐ Mechanical shoe (complete item below)
☐ Flexible wiper
☐ Other, specify _____

If the primary seal is a mechanical shoe, complete the following:

Vertical length of shoe _____ inches
Vertical length of shoe above stored liquid surface _____ inches

44. Secondary seal information:

Manufacturer _____ Type: ☐ Rim-mounted, flexible wiper
Make or model _____ ☐ Rim-mounted, resilient foam-filled
Date installed _____ ☐ Shoe-mounted
(month/year) ☐ Weather shield
☐ Other, specify _____

45. Most recent seal inspection for visible holes, tears or other openings in the seal or fabric:

Seal(s) inspected _____
Date of inspection _____
Inspected by (person and company) _____
Condition of seal(s) ☐ Good condition
☐ Needed repair or replacement, specify type and date of corrective action

46. Most recent seal gap measurements:

	Primary Seal	Secondary Seal
Date of measurement	_____	_____
By: (person)	_____	_____
(company)	_____	_____
Width of maximum gap	_____ inch	_____ inch
Total area of gaps	_____ sq in	_____ sq in
	_____ sq in/ft tank diameter	_____ sq in/ft tank diameter

47. Condition of the interior side of the tank shell:

☐ Little or no rust ☐ Dense rust ☐ Gunite-lining