



OAQ PROCESS INFORMATION APPLICATION
PI-14: Volatile Organic Liquid Compound Storage
 State Form 52554 (R2 / 1-10)
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
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 Indianapolis, IN 46204-2251
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 Toll Free: 1-800-451-6027 x30178 (within Indiana)
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NOTES:

- The purpose of this form is to obtain detailed information about all tanks larger than 250 gallons that are used to store volatile organic liquid compounds. Duplicate this form as necessary.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

PART A: Tank Identification

Part A identifies and describes the tank. Duplicate this form as necessary to include all applicable tanks.

1. Tank/Unit ID:	
2. Installation Date: <i>(actual or anticipated)</i>	
3. Tank Location:	
4. Tank Type	
<input type="checkbox"/> Fixed Roof, Cone <input type="checkbox"/> External Floating Roof, Domed <input type="checkbox"/> Internal Floating Roof <input type="checkbox"/> Fixed Roof, Dome <input type="checkbox"/> External Floating Roof, Not Domed <input type="checkbox"/> Variable Vapor Space <input type="checkbox"/> Other <i>(specify):</i> <input type="checkbox"/> Pressure Tank	
5. Is the tank Above Ground?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Tank Orientation:	<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical
7. Tank Color:	
8. Materials Stored: <i>(include MSDS)</i>	
9. True Vapor Pressure (PVA):	pounds per square inch (<i>psi at 20°C</i>)
10. Vapor Molecular Weight (Mv):	gallons (<i>lb/mole</i>)
11. Annual Throughput:	gallons per year (<i>gal/yr</i>)
12. Venting Method:	
13. Filling Method:	<input type="checkbox"/> Submerged <input type="checkbox"/> Not Submerged <input type="checkbox"/> Other <i>(specify):</i>

PART B: Emission Controls and Limitations

Part B identifies control technology, control techniques or other process limitations that impact air emissions.

14. Add-On Control Technology: <i>Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").</i>	
<input type="checkbox"/> None <input type="checkbox"/> Other <i>(specify):</i>	– Attach CE-10.
15. Control Techniques: <i>Identify all control techniques used for this process.</i>	
<input type="checkbox"/> None <input type="checkbox"/> Flare <input type="checkbox"/> Vapor Recovery System <input type="checkbox"/> Other <i>(specify):</i>	– Attach GSD-09.
16. Process Limitations / Additional Information: <i>Identify any acceptable process limitations. Attach additional information if necessary.</i>	

PART C: Information Specific to Tank Type

Part C identifies the physical properties of the tank.

- 17. Tank Diameter (D):** _____ feet (ft)
- 18. Tank Height (Hs):** _____ feet (ft)
- 19. Tank Volume / Capacity (V):** _____ gallons (gal) _____ cubic feet (ft³)
- 20. Maximum Liquid Height (Hlx):** _____ feet (ft)

21. External Floating Roof: Complete only if applicable.

- a.** Average Liquid Density (WI): _____ pounds per gallon (lb/gal)
- b.** Roof Type: Pontoon Floating Roof Double Deck Floating Roof
- c.** Tank Construction: Welded Riveted
- d.** Primary Rim Seal: Vapor Mounted Liquid Mounted Mechanical Shoe
- e.** Secondary Rim Seal: Weather Shield Rim Mounted None

22. Internal Floating Roof: Complete only if applicable.

- a.** Average Liquid Density (WI): _____ pounds per gallon (lb/gal)
- b.** Roof Type Double Deck Floating Roof Other: (specify)
- c.** Self-supported fixed roof Yes No
- d.** Number of columns supporting the fixed roof _____
- e.** Deck Construction: Welded Riveted Bolted
- f.** Primary Rim Seal: Vapor Mounted Liquid Mounted
- g.** Is there a Secondary Rim Seal? Yes No

23. Variable Vapor Space: Complete only if applicable.

- a.** Volume of liquid pumped into the system (V1): _____ gallons per year (gal/yr)
- b.** Volume expansion capacity of system (V2): _____ gallons (gal)
- c.** Number of Transfers Into the System (N2) _____ per year (/yr)

PART D: Emission Factors

Part D identifies all emission factors used to calculate air emissions from the storage tank.

24. Air Pollutant:	25. Emission Factor		26. Source of Emission Factor <i>(if not using AP-42, include calculations)</i>
	value	units	
Hazardous Air Pollutant (HAP): <i>(specify)</i> :			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other <input type="checkbox"/> N/A
Volatile Organic Compounds (VOC)			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other <input type="checkbox"/> N/A
Other <i>(specify)</i> :			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
Other <i>(specify)</i> :			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other

PART E: Federal Rule Applicability

Part E identifies any federal rules that apply to the process.

27. Is a New Source Performance Standard (NSPS) applicable to this source? <i>If yes, attach a completed FED-01 for each rule that applies.</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No	28. Unit ID:
<input type="checkbox"/> 40 CFR Part 60, Subpart K	Petroleum Liquid Storage Vessels (constructed after 6/11/1973 and before 5/19/1978)		
<input type="checkbox"/> 40 CFR Part 60, Subpart Ka	Petroleum Liquid Storage Vessels (constructed after 5/18/1978 and before 7/23/1984)		
<input type="checkbox"/> 40 CFR Part 60, Subpart Kb	Volatile Organic Liquid Storage Vessels, Including Petroleum Liquid Storage (constructed after 7/23/1984)		
<input type="checkbox"/> 40 CFR Part 60, Subpart VV	Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry		
<input type="checkbox"/> 40 CFR Part 60, Subpart GGG	Equipment Leaks of VOC in Petroleum Refineries		
<input type="checkbox"/> 40 CFR Part 60, Subpart KKK	Equipment Leaks of VOC from On-Shore Natural Gas Processing Plants		
29. Is a National Emission Standard for Hazardous Air Pollutants (NESHAP) applicable to this source? <i>If yes, attach a completed FED-01 for each rule that applies.</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No	30. Unit ID:
<input type="checkbox"/> 40 CFR Part 61, Subpart J	Equipment Leaks (Fugitive Emission Sources) of Benzene		
<input type="checkbox"/> 40 CFR Part 61, Subpart V	Equipment Leaks (Fugitive Emission Sources)		
<input type="checkbox"/> 40 CFR Part 61, Subpart Y	Benzene Emissions from Benzene Storage Vessels		
<input type="checkbox"/> 40 CFR Part 63, Subpart R	Gasoline Distribution (Bulk Gasoline Terminals and Pipeline Breakout Stations)		
<input type="checkbox"/> 40 CFR Part 63, Subpart CC	Petroleum Refineries		
<input type="checkbox"/> 40 CFR Part 63, Subpart HHH	Natural Gas Transmission and Storage		
<input type="checkbox"/> 40 CFR Part 63, Subpart EEEE	Organic Liquids Distribution (non-gasoline)		

31. Non-Applicability Determination: *Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.*

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