

Department of Natural Resources and Environmental Control Division of Air Quality PERMIT APPLICATION	AQM-1001D VOLATILE LIQUID STORAGE
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SOURCE NAME:	
SECTION A – GENERAL	EMISSION POINT NO.:

(NOTE: All control plans must be accompanied by Manufacturer's Specifications, drawings, and other pertinent information. If more space is required to answer a question, use a separate sheet. Attach a Material Safety Data Sheet (MSDS) for each product stored).

1. How are the incoming products received? *(Check, or if more than one mode is used, indicate the appropriate percent of each volatile liquid throughput by each mode and for each product)*

(a) Tank Trucks (b) Trailers (c) Railcars (d) Pipelines (e) Marine Tanks (f) Barge

% % % % % %

(g) Other (specify):

2. How are outgoing products transported? *(Check, or if more than one mode is used, indicate the appropriate percent of each volatile liquid throughput by each mode)*

(a) Tank Trucks (b) Trailers (c) Railcars (d) Pipelines (e) Marine Tanks (f) Barge

% % % % % %

(g) Other (specify):

3. Product Data

PRODUCT TYPE (a)	DENSITY (lb/gal)	MOLECULAR WEIGHT	TRUE VAPOR PRESSURE (psi)		MAXIMUM ANNUAL THROUGHPUT (gals) (including Tank-To-Tank Transfer)
			At Maximum Storage Temperature (b)	At Annual Average Storage Temperature (b)	

- (a) List Liquid Stored (premium gasoline, regular gasoline, unleaded gasoline, acetone, isopropyl alcohol, xylene, etc.)
- (b) The color of the tank increase the storage temperature of an outdoor tank above ambient temperature by 2.5°F for aluminum (silver) point, 3.5°F for gray paint, 5°F for black paint and 0°F for white paint.
4. If gasoline is not handled, or if the outgoing product is shipped entirely by barge or marine tanks, OMIT SECTIONS B AND C. Go to Section D.
5. If the plant is a "BULK GASOLINE TERMINAL" (has a gasoline daily throughput of more than 20,000 gallons on a monthly average), OMIT Section B. Complete Sections C and D, only.
6. If the plant is a "BULK GASOLINE PLANT" (has a gasoline daily average throughput of 20,000 gallons or less on a monthly average), COMPLETE Sections B and D, only.

SECTION B: BULK GASOLINE PLANTS, ONLY

7. Is there a vapor balance system (Gasoline, only) for:

- (a) Filling storage tanks from transport vehicle tanks YES
- (b) Filling transport vehicle tanks from storage tanks YES

8. For loading gasoline into transport vehicle tanks, is there a:

- (a) Submerged fill tube;
- (b) Bottom-fill; or
- (c) Other (*Specify*):

9. For a vapor balance system:

- (a) Are the fittings vapor-tight? YES
- (b) Do the fitting close automatically upon disconnection? YES
- (c) Is the vapor return line free of restrictions? YES
- (d) Does it have interlocking devices which prevent transfer until the vapor return hose is connected? YES
- (e) Are transport vehicle tank hatches closed at all times? YES
- (f) Are there any leaks from the pressure/vacuum valve and hatches during loading? YES
- (g) Is there a pressure relief valve on the storage vessel? YES
(Pressure Setting: psig)
- (h) Is there a pressure relief valve on the transport vehicle tanks? YES
(Pressure Setting: psig)
- (i) Diameter of the liquid fill line: inches
- (j) Diameter of the vapor return line: inches
(the cross-sectional area of the vapor return hose must be at least 50% of that of the liquid fill line)

For existing sources, if any of the above and other requirements of the applicable regulation are not being met, the deficiencies shall be rectified in an expeditious manner following approval of the Division (Complete Forms AQM-1001Y and AQM-1001Z for Noncomplying Sources).

SECTION C: BULK GASOLINE TERMINALS, ONLY

10. Is there a vapor control system for filling gasoline transport vehicle from storage tanks? YES

- (a) Is the system vapor tight? YES
- (b) Are the hatches on the transport vehicle closed except for the time required to install the submerged fill lines? YES

11. What type of vapor control device is used?

- Incinerator
- Adsorber
- Other (*Specify*)

12. For the control device, specify:

- (a) Diameter of the stack or vent: inches
- (b) Height of the stack or vent: inches
- (c) Quantity of gases discharged: acfm
- (d) Temperature of gases discharged: °F
- (e) Concentration of hydrocarbon emissions from the device: grains/cubic foot
- (f) Date installed: / /

For existing sources, if any of the above and other requirements of the applicable regulation are not being met, the deficiencies shall be rectified in an expeditious manner following approval of the Division. (Complete Forms AQM-1001Y and AQM-1001Z for Noncomplying Sources).

SECTION D

Please refer to the appropriate Regulation for storage vessels for the requirements.

PART 1: ALL STORAGE TANKS								
TANK I.D. #	PRODUCT STORED	DATE INSTALLED	TANK DIAMETER (feet)	TANK HEIGHT OR LENGTH (feet)	MAXIMUM HOURLY FILLING RATE (gallons/hr)	MAXIMUM ANNUAL THROUGHPUT (gallons/yr) (including Tank-to-Tank transfers)	TANK CAPACITY (gallons)	AVERAGE AMBIENT DIURNAL TEMPERATURE CHANGE (°F)
		/ / / / / / / /						
PART 2: FIXED-ROOF TANKS								
TANK I.D.#	PAINT COLOR		AVERAGE VAPOR SPACE HEIGHT (feet) (2)	HORIZONTAL OR VERTICAL?	UNDERGROUND?	PART 3: VARIABLE VAPOR SPACE TANKS		
	ROOF (1)	SIDES (2)				VOLUME EXPANSION CAPACITY (gallons) (3)	NUMBER OF TRANSFERS INTO THE TANK PER YEAR (including Tank-to-Tank transfers)	
				HORIZONTAL	YES			
				HORIZONTAL	YES			
				HORIZONTAL	YES			
				HORIZONTAL	YES			

(1) White, Aluminum (specular, diffuse), light gray, medium gray, etc.

(2) The vapor space in a cone roof is equal in volume to a cylinder which has the same base diameter as the cone, and is one-third (1/3) the height of the cone

(3) Volume of the variable vapor space.

SECTION D

Please refer to the appropriate state and/or federal regulation for storage vessels for the requirements.

PART 4: ALL FLOATING-ROOF TANKS							
TANK I.D. #	RIVETED OR WELDED TANK SIDES?	TYPE OF PRIMARY SEAL (4)	TYPE OF SECONDARY SEAL (5)	AVERAGE ANNUAL WIND SPEED (MPH)	SHELL CONDITION (6)	NUMBER OF SUPPORT COLUMNS	COLUMN CROSS-SECTIONAL DIMENSIONS
	RIVETED						
	RIVETED						
	RIVETED						
	RIVETED						
	RIVETED						
PART 5: INTERNAL FLOATING-ROOF TANKS, ONLY							
TANK I.D. #	TYPES OF DECK FITTINGS (7)	NUMBER OF EACH TYPE	DESIGN OF EACH DECK FITTING (8)	NUMBER OF EACH DESIGN	LENGTH OF DECK SEAM (feet) (BOLTED DECKS, ONLY)		

- (4) Metallic shoe, liquid or vapor mounted resilient seal, etc.
- (5) Shoe mounted, rim mounted, with weather shield, etc.
- (6) Light rust, dense rust, gunite-line.
- (7) Access hatch, automatic gauge float well, column well, ladder well, roof leg or hanger well, sample pipe or well, drain stub, vacuum breaker, etc.
- (8) Bolted, gasketed or sliding cover; fabric sleeve or seal; weighted mechanical activation