



Minnesota Pollution Control Agency

AIR QUALITY
520 LAFAYETTE ROAD NO., ST. PAUL, MN 55155-4194

PERMIT APPLICATION FORM **CAP-GI-05C**
TANK INFORMATION
3/7/06

1) AQ Facility ID No.: _____ 2) Facility Name: _____

3a) Tank ID No.	3b) Control Equip ID No.	3c) Product(s) Stored	3d) Interior Height (ft.)	3e) Interior Diameter (ft.)	3f) Capacity (1000 gals.)	3g) Construc -tion Type	3h) Support Type (floating roof only)	3i) Number of Columns (column- supported only)	3j) Column Diameter (column- supported only, in ft.)	3k) Deck Type (floating roof only)	3l) Seal Type (floating roof only)	3m) Date Installed or Constructed

INSTRUCTIONS FOR FILLING OUT AQ FORM

CAP-GI-05C Tank Information

If you have previously received an air emissions permit from the MPCA or have filed an annual emissions inventory, contact the MPCA Customer Assistance Center at (651) 297-2274 or (800) 646-6247 prior to filling out this form. The CAC can provide you with a printout of the MPCA's most recent information entered in the permitting and inventory database. Start with (and edit) this information when filling out the Capped application form.

- 1) **AQ Facility ID No.** -- Fill in your Air Quality Facility ID Number as indicated on the *Facility Information Form* (GI-01), item 1a.
- 2) **Facility Name** -- Enter your facility name as indicated on the *Facility Information Form* (CAP-GI-01), item 2.
- 3a) **Tank ID No.** -- Fill in the Tank ID Number. Number all the tanks consecutively, giving each tank a unique ID number beginning with 001, 002, 003, etc. It may be helpful to group tanks according to area, process, or contents. It is important to use these ID numbers consistently throughout the permit application.
- 3b) **Control Equipment ID No.** -- If emissions from the tank are directed to a control device (e.g., a condenser, a flare, or a thermal oxidizer), fill in the ID number of that piece of control equipment here. This ID information should be the same as listed on Pollution Control Equipment Information form CAP-GI-05A and will help track the flow of emissions.
- 3c) **Product(s) Stored** -- List the material contained in the tank. Include the appropriate Chemical Abstract Service (CAS) number. If the tank contains a mixture, list each individual compound in a separate row (with the same tank number in column 1). After the name of the compound, list the CAS number and the approximate weight fraction of that (or groups of chemicals) contained in the tank. An example follows:

Tank ID No.	Control Equip. No.	Product(s) Stored	Interior Height (ft)
001	001	Benzene (CAS # 71432); 52%	10
001		Toluene (CAS # 108883); 48%	

- 3d) **Interior Height (ft.)** -- List the interior height of the tank, in feet. For tanks with a cone bottom, fill in the straight-wall height only.

- 3e) Interior Diameter (ft.)** -- List the interior diameter of the tank, in feet. For a tank that is not cylindrical, calculate the area of the top of the tank. Then determine the diameter of a circle with an area equal to that of the top of the tank. List that *effective diameter* (in feet) in this column.
- 3f) Capacity (1000's of gals.)** -- List the maximum capacity of the tank (in thousands of gallons). The maximum capacity may be calculated by multiplying the height of the tank by the area of the top of the tank. Be sure to convert to thousands of gallons before writing in the capacity. For example, for a 40,000 gallon tank, fill in "40." If you need to convert from cubic feet to gallons, use the factor of 7.481 U.S. gallons in a cubic foot.
- 3g) Construction Type** -- Tanks are constructed in many ways. Describe the method used to fasten the seams of the tank itself (not the roof). Fill in the number for the type of construction from the following list:
1. External floating roof, construction not specified
 2. External floating roof with welded tank shell
 3. External floating roof with riveted tank shell
 4. Internal floating roof
 5. Fixed roof
 6. Pressure tank
 7. Variable vapor space
 8. Underground
 9. Other. Attach a description to Form CAP-GI-05C on a separate sheet.
- 3h) Support Type (floating roof only)** -- If the tank is a floating roof, describe the type of tank support used. Fill in the number for the type of support from the following list:
1. Self-supporting fixed roof with no internal support columns
 2. Column supported roof, construction type not specified
 3. Column supported roof, with 9 by 7 inch built-up columns
 4. Column supported roof, with 8 inch diameter columns
- 3i) Number of Columns (floating roof with column-support only)** -- If the tank's roof is supported by columns, list the number of columns. If no information on the number of columns in the tank can be found, refer to AP-42, Table 7.1-11. This table lists representative number of columns for internal floating roof tanks.
- 3j) Column Diameter (floating roof with column-support only) in ft.** -- If the tank's roof is supported by columns, list the average effective column diameter of a column supported tank roof. If the diameter is not known, use the following diameters:
- 1.1 feet -- 9 by 7 inch built up columns
0.7 feet -- 8 inch diameter pipe columns
1.0 feet -- if column construction details are not known

3k) Deck Type (floating roof only) -- If the tank has a floating roof, describe the materials and process used to construct the tank deck. Fill in the number for the deck type from the following list:

1. Welded
2. Bolted, 5 feet wide continuous sheet construction
3. Bolted, 6 feet wide continuous sheet construction
4. Bolted, 7 feet wide continuous sheet construction
5. Bolted, 5 by 7.5 feet rectangular panel construction
6. Bolted, 5 by 12 feet rectangular panel construction
7. Bolted, details not specified

3l) Seal Type (floating roof only) -- Describe the seal design used to reduce vapor loss from the floating roof tank. Fill in the number for the seal type from the following list:

1. Mechanical (metallic shoe seal); primary seal only
2. Mechanical (metallic shoe seal); with shoe mounted secondary seal
3. Mechanical (metallic shoe seal); with rim mounted secondary seal
4. Resilient seal (nonmetallic); liquid mounted, primary seal only
5. Resilient seal (nonmetallic); with weather shield
6. Resilient seal (nonmetallic); with rim mounted secondary seal
7. Resilient seal (nonmetallic); vapor mounted, primary seal only
8. Resilient seal (nonmetallic); vapor mounted, with weather shield
9. Resilient seal (nonmetallic); vapor mounted, with rim mounted secondary seal

3m) Date Installed or Constructed -- Provide the date that construction or installation of the tank began.