



# ARD-5 FORM INFORMATION REQUIRED FOR PERMITS FOR A FUEL LOADING FACILITY

Air Resources Division/Permitting and Environmental Health Bureau

RSA/Rule: RSA 125-C:12 and Env-A 1700

## I. EQUIPMENT INFORMATION – *Complete a separate form for each emission unit.*

Device Description: \_\_\_\_\_

Date Construction Commenced<sup>1</sup>: \_\_\_\_\_ Start-Up Date<sup>1</sup>: \_\_\_\_\_

Bulk Gasoline Loading Terminal       Bulk Gasoline Plant       Gasoline Service Station

Other: \_\_\_\_\_

### A. Bulk Terminal and Plant Loading Information

Tank Car/Truck       Marine Vessel

Type of Fuel

Crude Oil       Distillate Fuel       Gasoline

Residual Fuel       LPG

Other (specify): \_\_\_\_\_

Gallons loaded per year: \_\_\_\_\_

Liquid loading temperature (°F) \_\_\_\_\_

Type of Loading for marine vessels or tank cars and trucks :

Submerged       Submerged load-balance       Stage I vapor balance

Splash load-balance       Other (specify): \_\_\_\_\_

Cargo Hold Usage

% in load balance service \_\_\_\_\_

% of total evacuated (clean) \_\_\_\_\_

% in dedicated service (dirty) \_\_\_\_\_

### B. Stack Information

Is emission unit equipped with multiple stacks?     Yes     No *(If yes, provide data for each stack)*

Are multiple units connected to this stack?     Yes     No

*(If yes, identify other emission units or devices on this stack:)* \_\_\_\_\_

Stack #	Discharge Height Above Ground Level (ft)	Inside Diameter (ft) or Area (ft <sup>2</sup> ) at Stack Exit <sup>2</sup>	Exhaust Temperature (°F)	Exhaust Flow (acfm)	Stack Capped or Otherwise Restricted <sup>3</sup> (Yes - Type/No)	Exhaust Orientation <sup>4</sup>	Stack Monitor (Yes/No) and Description
#5 (Ex)	65 ft (Example)	4 ft (Example)	70 °F (Example)	1500 acfm (Example)	Yes - Rain Cap (Example)	Vertical (Example)	No (Example)

**C. Hours of Operation**

Hours per day: \_\_\_\_\_ Days per year: \_\_\_\_\_

**II. UNCONTROLLED AIR POLLUTANT EMISSIONS (list emissions prior to add on controls – use additional sheets if necessary)**

Pollutant	Emission Factor	Units	Emission Factor Source <sup>5</sup>	Actual (lb/hr)	Potential (lb/hr)	Actual (tpy)	Potential (tpy)

Provide an example of the calculations used to determine uncontrolled air pollutant emissions, if applicable:

**III. POLLUTION CONTROL EQUIPMENT**

**Not Applicable**

Note: If the emission unit utilizes more than one type of pollution control equipment, provide data for each type of equipment.

**A. Type of Equipment:** \_\_\_\_\_

**B. For each control device, include an Air Pollution Control Equipment Monitoring Plan pursuant to Env-A 810.**

**C. Controlled Air Pollution Emissions** (list emissions after all add on controls – *use additional sheets if necessary*)

Pollutant	Controlled Emission Factor	Units	Emission Factor Source <sup>5</sup>	Actual (lb/hr)	Potential (lb/hr)	Actual (tpy)	Potential (tpy)

Provide an example of the calculations used to determine controlled air pollutant emissions, if applicable:

## ARD-5 FORM INFORMATION INSTRUCTIONS

- 1 If exact date is unknown for Date Construction Commenced or Start-Up Date, you may use 01/01/year. Date Construction Commenced refers to the date the owner or operator has entered into a contractual obligation to undertake and complete a continuous program of construction, reconstruction, or modification of the emission unit. Start-Up Date refers to the date the emission unit is first operated at the facility.
- 2 Examples of Inside Diameter or Area at Stack Exit: Diameter at discharge point of convergence cone, if applicable
- 3 Flapper valves and other devices which do not restrict the vertical exhaust flow while the emission unit is operating are not considered obstructions or restrictions.
- 4 Examples of Exhaust Orientation: Vertical, Horizontal, Downward  
**Note:** for a stack to be considered vertical and unobstructed, there shall be no impediment to vertical flow, and the exhaust stack extends 2 feet higher than any roofline within 10 horizontal feet of the exhaust stack
- 5 Emission factor sources may include:
  - Continuous Emissions Monitor (CEM)
  - Stack Test (Provide Date)
  - Vendor Guaranteed Rates (Provide Documentation)
  - AP-42 Emission Factors
  - Material Balance (Provide Sample Calculation)
  - Engineering Estimate