G13 - NEW ABOVEGROUND STORAGE TANK WITH STANDING LOSS CONTROLS, PHASE I EVR, PHASE II PRE-EVR

CALCULATION METHODS

Ea = Ua x EF (lbs/1000 gallons throughput) x Ci Weight %(Weight % Vapor/Liquid)

Eh = Tank Ullage (50% Tank Capacity) x EF (loading) x Ci Weight %(Weight % Vapor/Liquid)

NOTES:

- Annual throughput (Ua) is for gasoline only, do not include diesel or jet fuels.
- Use a set ROG / TOG factor of 1.8 lbs/1000 gallons thruput for annual estimates, vapor and liquid.
- Emissions from tank loading, breathing, refueling, spillage and hose permeation are speciated using average vapor and liquid concentration values for reformulated & oxygenated gasoline.

POLLUTANT	District Emission Factor	EPA REFERENCE	ARB	(UNITS)	COMMENTS
	(lbs/lb emissions)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG			1.8	lbs/1000 gal	Sum of loading (.15), breathing (.57), refueling (.63), spillage (0.42), hose permeation (.062)
ROG			1.8	lbs/1000 gal	Sum of loading (.15), breathing (.57), refueling (.63), spillage (0.42), hose permeation (.062)
TSP					
PM10					
BENZENE					ASSUMES 0.4% BY WEIGHT IN VAPOR AND 1.0% BY WEIGHT IN LIQUID
ETHYL BENZENE					ASSUMES 0.1% BY WEIGHT IN VAPOR AND 1.6% BY WEIGHT IN LIQUID
HEXANE					ASSUMES 1.4% BY WEIGHT IN VAPOR AND 1.8% BY WEIGHT IN LIQUID
LEAD					
TOLUENE					ASSUMES 1.1% BY WEIGHT IN VAPOR AND 8.0% BY WEIGHT IN LIQUID
2,2,4-TRIMETHYLPENTANE					ASSUMES 0.7% BY WEIGHT IN VAPOR AND 0.8% BY WEIGHT IN LIQUID
XYLENES					ASSUMES 0.4% BY WEIGHT IN VAPOR AND 2.4% BY WEIGHT IN LIQUID

Last Updated on
1/31/23 By J. Lofgren