

G02 - BULK GASOLINE STORAGE TANKS, EXTERNAL FLOATING ROOF.

CALCULATION METHODS

$$E_a = [(L_r + L_f) \times 8760] + [\#dg \times (L_{dg} + L_{rf})] \times \%Ci/100$$

$$E_h = E_a / H$$

NOTES:

- L_r (rim seal losses - lbs/hr) are calculated separately from the database and provided to the sites as a fixed emission rate (constant) dependent only upon design parameters.
- L_f (fitting losses - lbs/hr) are calculated separately from the database and provided to the sites as a fixed emission rate (constant) dependent only upon design parameters.
- L_{dg} (degassing losses) = 0.462D² + 0.707D (Note: Deck Seam Losses were omitted from the calculation procedure since this type of equipment does not exist in San Diego County.)
- L_{rf} (refilling losses) = 0.315D²
- Max hourly emissions are assumed equal to average hourly emissions since no acute substances are expected to be released from gasoline storage operations.
- Emissions from loading racks and vapor processors are calculated separately.
- Emissions from fixed roof tanks should be calculated with the standard gasoline dispensing form using emission factors for bulk dispensing.
- Calculation procedures are primarily based upon information in AP-42, Section 7.1 (9/97).

POLLUTANT	District Emission Factor	EPA REFERENCE	ARB	(UNITS)	COMMENTS
	(Weight Percent %)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG	100.000	AP-42, Section 7.1 and others			Assumes all gasoline vapor is TOG.
ROG	100.000	AP-42, Section 7.1 and others			Assumes all gasoline vapor is ROG.
TSP					
PM10					
BENZENE	0.40%	NESHAPS Doc. 453/R-94-002a	0.40%	weight percent in vapor	Assumes emissions = gasoline vapor speciation for reformulated / oxygenated fuel
ETHYL BENZENE	0.10%	NESHAPS Doc. 453/R-94-002a	0.10%	weight percent in vapor	Assumes emissions = gasoline vapor speciation for reformulated / oxygenated fuel
HEXANE	1.40%	NESHAPS Doc. 453/R-94-002a	1.40%	weight percent in vapor	Assumes emissions = gasoline vapor speciation for reformulated / oxygenated fuel
LEAD					
TOLUENE	1.10%	NESHAPS Doc. 453/R-94-002a	1.10%	weight percent in vapor	Assumes emissions = gasoline vapor speciation for reformulated / oxygenated fuel
2,2,4-TRIMETHYLPENTANE	0.70%	NESHAPS Doc. 453/R-94-002a	0.70%	weight percent in vapor	Assumes emissions = gasoline vapor speciation for reformulated / oxygenated fuel
XYLENES	0.40%	NESHAPS Doc. 453/R-94-002a	0.40%	weight percent in vapor	Assumes emissions = gasoline vapor speciation for reformulated / oxygenated fuel