G01 - BULK GASOLINE STORAGE TANKS, INTERNAL FLOATING ROOF.

CALCULATION METHODS

$Ea = Lr + Lf + Lwd + (Lrf \times \#rf) + (Ldg \times \#dg) \times \%Ci/100$

$Eh = Ea / H$

NOTES:

- Lr (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.

- Lf (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.

- Lwd (Withdrawal Losses - lbs/year) = $[(0.943 \times Q \times C \times Wl) / D] \times [1 + (Nc \times Fc / D)]$

- Ld (Deck Seam Losses - lbs/hr) were omitted from the calculation procedure since this type of equipment does not exist in San Diego County.

- Lrf (refilling losses) = $0.315D^2$

- #rf = refilling times

- Ldg (degassing losses) = $0.462D^2 + 0.707D$

- #dg = degassing times

- 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 (11/2006).

POLLUTANT	District Emission Factor (Weight Percent %)	EPA REFERENCE DOCUMENT	ARB FACTOR	(UNITS)	COMMENTS
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