

American Tower Corp.
78-0229/65492

Heat Input Calculations

Fuel Type	Diesel
Stated Fuel Consumption (gal/hr)	5.8
Heating Value (Btu/gal)	145,953
Design Heat Input (MMBtu/hr)	0.85

PM Emission Calculations

Engine Power (hp)	131
PM emission factor (lb/hp-hr)	0.000721
Actual PM emissions (lb/hr)	0.09
Design Heat Input (MMBtu/hr)	0.85
Allowable PM Emissions (lb/MMBtu)	0.6
Allowable PM Emissions (lb/hr)	0.51

SO₂ Emission Calculations

Stated Fuel Consumption (gal/hr)	5.8
Fuel Density (lb/gal)	7.39
Stated Fuel Consumption (lb/hr)	42.9
Sulfur Content (ppm)	15
Sulfur Consumption (lb/hr)	0.00064
SO ₂ emissions (lb/hr)	0.00129
Allowable SO ₂ emissions (lb/hr)	0.1

CO, VOC, and NO_x Emission Calculations

Engine Power (hp)	131
Engine Power (kW)	97.726
Allowable NO _x + NMHC emissions (g/kW-hr)	4.0
Allowable CO emissions (g/kW-hr)	5.0
Allowable NO _x + NMHC emissions (lb/hr)	0.86
Allowable CO emissions (lb/hr)	1.08

Emissions in tons/year assuming 500 hours per year of operation

Pollutant	Actual Emissions (lb/hr)	Actual Emissions (tons/year)	Allowable Emissions (lb/hr)	Allowable Emissions (tons/year)
PM	0.09	0.02	0.51	0.13
SO ₂	0.00129	0.0003	0.1	0.03
CO	1.08	0.27	1.08	0.27
NMHC	0.86	0.22	0.86	0.22
NO _x	0.86	0.22	0.86	0.22