Kilowat	558.2549826
Engine HP	749
hours/yr	100.000
hours/day	24.000
convers	0.606
gal/hr	39.000

Diesel fired internal combustion engine based on BACT trigger levels

	g/bhp-hr	**lbm/yr**	**tons/yr**	**lbm/day**
POC	0.1	16.49779736	0.008249	3.959471366
NOX	6.6	1088.854626	0.544427	261.3251101
CO	1.17	193.0242291	0.096512	46.32581498
PM-10	0.0495	8.166409692	0.004083	1.959938326
S02		32.69839648	0.016349	7.847615156

Heating Value of Diesel =	137,000	Btu/gal	wt% of sulfur	0.05
Density of Diesel =	7.05	lbm/gal		
efficiency of engine =	0.3			
convert HP to BTU/hr	1,906,246.94	Btu/hr	Actual Power BTU/hr	
Ideal Power BTU/hr	6,354,156.48	BTU/hr		
SOx content in fuel	32.69839648	lbm SO2/yr	0.0163492	tons S02/yr

Gal/yr fuel	39.000	
Gal/yr fuel	3900	
Fuel BTU/HR	5.307E+06	BTU/hr

Risk

0.0495	3707.55	3.23E-06	
749	31536000	3.227796	commercial
100.0	**0.000117566**		
0.0495	3707.55	3.22E-06	
749	31536000	3.2193	residential
100	**0.000117566**		

conversation factors

1 Kw	3413.88	btu/hr
1hp-hr	2544.48	btu

power	558.2549826	
conversion to HP	749	hp
hours	100.000	
hp	749.000	
grams/sec	1.176E-04	

Inc Increase

	A/N 4437	Incremental Inc lbm/yr	Inc Increase A/N 8597 tons/yr	A/N 4437 tons/yr
POC	0.34	16.15779736	0.008079	0.00017
NOX	25.81	1063.044626	0.531522	0.012905
CO	8.25	184.7742291	0.092387	0.004125
PM-10	0.6	7.566409692	0.003783	0.0003
S02	0.85	31.84839648	0.015924	0.000425