safety POWER

clean essential energy

Design Parameters

The design of the Safety Power emissions reduction system is based on the following conditions.
Note: Nox is calculated as NO_2.

Table 1 – Engine Data

Engine Type:	Cummins C2000 N6C	Cummins C334N6C
Application	Prime Power	Prime Power
Engine Power (kW)	2,000	334
Exhaust Temperature (°C)	458	534
Design Exhaust Flow Rate (CFM)	14,315	2,940
Fuel Type	NG	NG

Table 2 – Emissions Data at Full Engine Load

Option	Emissions	Catalyst Inlet (ppmv actual O2)	Emissions Reduction (%)	Catalyst Outlet (%)
Cummins C2000N6C	NOx	168	90	90
Cummins C334N6C	NOx	2 (g/Hp-hr)	90	90

Table 3 – SCR System Data

Engine Model	Cummins C2000 N6C	Cummins C334N6C
Max. Ammonia Slip @ 15% O^2	5 ppm	5 ppm
Urea Consumption – 32.5% solution	4.8 lph	2.2 lph
SCR Pressure Loss	12" W.C.	13" W.C.
SCR Inlet/Outlet ANSI Flange Inches	28/28	12/12