

Appendix C
Emission Factors

Emission Factors Used To Estimate Baseline Emissions

Diesel Engine Emission Factors

	MGO (2.5%S)	MGO (0.1%S)
NOx	13.9	13.9
PM	0.4	0.25
HC	0.4	0.4
SOx	2.1	0.4

- All emission factors in g/kW-hr
- NOx and HC emission factors from Starcrest. See report: Port of Los Angeles Emissions Inventory (Entec, 2002)
- PM and HC emission factors developed by ARB staff based in part on work reported by ENVIRON.

Turbine Engine Emission Factors

NOx	6.0
PM	0.01
HC	0.07

- All emission factors in g/kW-hr
- Emission factors taken from ENVIRON report: Shoreside Power Feasibility Study for Cruise Ships Berthed at Port of San Francisco, 2005

Grid Emissions

NOx	0.19
PM	0.029
HC	0.035
SOx	0.014

- All emission factors in lbs/MW-hr
- Emissions for total State generation, including non-thermal generation
- Based upon ARB staff estimates for total emissions from in-state power plants and CEC staff estimates for total power used in California, including out-of-state imports