

**Appendix E - LONG BEACH GENERATION, LLC**  
**Emission Factors**

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Total Annual Hours of Operation = 1,500 hours  
 Total Hours of Commissioning = 120 hours  
 Total Hours During Non-Commissioning = 1,380 hours

**Fuel Consumption During the Commissioning Period**

Total PM10 emissions during commissioning = 552lb  
 Total heat input during commissioning = (552 lb)(MMBTU/0.0053 lb) = 104,151 MMBTU

Total Heat Input (MMBTU)	Fuel Heating Value (BTU/scf)	Total Fuel Cons. during Comm. (MMscf)
104,151	1,020	102.1088

**Commissioning Period Emission Factor**

NOx Emissions during commissioning (lb)	CO Emissions during commissioning (lb)	Total Fuel Cons. during Comm. (MMscf)	NOx EF lb/mmscf	CO EF lb/mmscf
12,712	6,804	102.1088	124.49	66.63

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Annual fuel consumption (AFC) during non-commissioning is calculated as follows:

$$\text{AFC} = (4 \text{ CTGs})(871.3 \text{ MMBTU/hr})(1 \text{ scf}/1,020 \text{ BTU})(1,261\text{-}30 \text{ hr/yr}) = 4,206.16 \text{ MMscf/yr}$$

### Non-Commissioning Period Emission Factor

Total NOx Emissions (lb/yr)	Total CO Emissions (lb/yr)	AFC (MMscf/yr)	NOx EF lb/mmscf	CO EF lb/mmscf
85,050	51,185	4,206.2	20.2203	12.1691

<sup>1</sup> The total NOx, CO and SOx emissions as well as the AFC are for all 4 CTGs

### Emission Factor Determination for Condition A63.1 & A63.2

PM10 EF lb/MMBTU	SOx EF gr/100 scf	VOC EF lb/MMBTU	Grains/lb	Heat Content BTU/scf	PM10 lb/mmscf	SOx lb/mmscf	VOC lb/mmscf
0.0053	0.250	0.0020	7,000	1,020	5.39	0.7143	2.0400

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