

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**  
**Best Available Control Technology (BACT) Guideline**

**Source Category**

<b>Source:</b>	<i>Coffee Roasting</i>	<b>Revision:</b>	<i>1</i>
		<b>Document #:</b>	<i>47.3.1</i>
<b>Class:</b>	<i>110,000 BTU/hr to 3.5 MM BTU/hr</i>	<b>Date:</b>	<i>4/2/08</i>

**Determination**

<b>POLLUTANT</b>	<b>BACT</b> 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	<b>TYPICAL TECHNOLOGY</b>
<b>POC</b>	1. <i>n/d</i> 2. <i>0.047 lb/ton of beans roasted</i>	1. <i>n/d</i> 2. <i>Afterburner (<math>\geq 0.3</math> sec. retention time at <math>\geq 1400^{\circ}F</math>)<sup>a</sup></i>
<b>NO<sub>x</sub></b>	1. <i>n/d</i> 2. <i>0.2 lb/MMBTU<sup>a</sup></i>	1. <i>n/d</i> 2. <i>Natural Gas Firing<sup>a</sup></i>
<b>SO<sub>2</sub></b>	1. <i>Natural gas firing<sup>a</sup></i> 2. <i>Natural gas firing<sup>a</sup></i>	1. <i>Fuel Selection<sup>a</sup></i> 2. <i>Fuel Selection<sup>a</sup></i>
<b>CO</b>	1. <i>0.1 lb/MMBTU</i> 2. <i>0.4 lb/MMBTU</i>	1. <i>Natural Gas Firing &amp; Use of Heat Exchangers<sup>a</sup></i> 2. <i>Good combustion practice<sup>a</sup></i>
<b>PM<sub>10</sub></b>	1. <i>n/d</i> 2. <i>0.01 gr/dscf<sup>a</sup></i>	1. <i>n/d</i> 2. <i>Natural gas firing with cyclone and afterburner (<math>\geq 0.3</math> sec retention time at <math>\geq 1400^{\circ}F</math>)<sup>a</sup></i>
<b>NPOC</b>	1. <i>n/a</i> 2. <i>n/a</i>	1. <i>n/a</i> 2. <i>n/a</i>

**References**

*a. BAAQMD Application # 13807 & 15187*