BEST AVAILABLE CONTROL TECHNOLOGY (BACT) GUIDELINE 3.5

Equipment Category:	Prime Lean Burn Spark Ignition Engines
Revision:	1.1
Date:	June 14, 2017

Pollutant	BACT Requirement	BACT Technology	Performance Standard	AIP/TF
NO_x	1	Selective catalytic reduction (SCR) with ammonia slip of 5 ppmv @ 15% O_2, oxidation catalyst	5 ppmv @ 15% O_2; 0.063 g/bhp-hr	AIP
ROC	1	Oxidation catalyst	25 ppmv @ 15% O_2 (as methane); 0.11 g/bhp-hr	AIP
CO	1.a	Oxidation catalyst	54 ppmv @ 15% O_2; 0.45 g/bhp-hr	AIP
	1.b	Oxidation catalyst	12 ppmv @ 15% O_2; 0.10 g/bhp-hr	TF
SO_x, PM, PM_{10}, $PM_{2.5}$	1.a	PUC quality natural gas	≤ 80 ppmv total sulfur and ≤ 4 ppmv H_2S	AIP
	1.b	Produced gas treated using a continuously operating sulfur removal system	Case-by-case	AIP

Notes:

1. NO_x means oxides of nitrogen (as NO_2) and SO_x means oxides of sulfur (as SO_2).
2. AIP means Achieved in Practice. TF means Technologically Feasible.
3. BACT is the most stringent control technique for the emissions unit and equipment category that is either achieved in practice or technologically feasible/cost effective.
4. BACT determinations are subject to periodic updates without advanced notice.