BEST AVAILABLE CONTROL TECHNOLOGY (BACT) GUIDELINE 2.3

Equipment Category:	External Combustion Rated ≥5.000 MMBtu/hr
Revision:	1.3
Date:	December 9, 2019

Pollutant	BACT Requirement	BACT Technology	Performance Standard	AIP/TF
NO_x	1	Low-NO_x burner, flue gas recirculation, selective catalytic reduction (SCR) with ammonia slip of 5 ppmvd @ 3% O_2	9 ppmvd @ 3% O_2 (≥5.000 MMBtu/hr to ≤20.000 MMBtu/hr units)	AIP
			7 ppmvd @ 3% O_2 (>20.000 MMBtu/hr to <26.000 MMBtu/hr units)	AIP
			5 ppmvd @ 3% O_2 (≥26.000 MMBtu/hr units)	AIP
ROC	1	Good combustion practices	N/A	AIP
CO	1	Low-NO_x burner, flue gas recirculation, SCR with ammonia slip of 5 ppmvd @ 3% O_2	50 ppmvd @ 3% O_2	AIP
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
	2	Fuel Gas Sulfur Plan	N/A	AIP

Notes:

1. NO_x means oxides of nitrogen (as NO_2) and SO_x means oxides of sulfur (as SO_2).
2. External combustion is defined as any combustion equipment permitted to be fired with liquid and/or gaseous and/or solid fossil fuel, which either (a) is used to produce steam or to heat water; or (b) transfers heat from combustion gases to water or process streams. This equipment category excludes oilfield steam generators.
3. AIP means Achieved in Practice. TF means Technologically Feasible.
4. 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.
5. BACT determinations are subject to periodic updates without advanced notice.