

## BEST AVAILABLE CONTROL TECHNOLOGY (BACT) GUIDELINE 2.2

<b>Equipment Category:</b>	External Combustion Rated >0.400 MMBtu/hr to <5.000 MMBtu/hr
<b>Revision:</b>	1.3
<b>Date:</b>	September 28, 2021

Pollutant	BACT Requirement	BACT Technology	Performance Standard	AIP/TF
NO <sub>x</sub>	1	Low-NO <sub>x</sub> burner, flue gas recirculation	20 ppmvd @ 3% O <sub>2</sub> (>0.400 MMBtu/hr to <1.000 MMBtu/hr units)	AIP
			12 ppmvd @ 3% O <sub>2</sub> (≥1.000 MMBtu/hr to ≤2.000 MMBtu/hr units)	AIP
			9 ppmvd @ 3% O <sub>2</sub> (>2.000 MMBtu/hr to <5.000 MMBtu/hr units)	AIP
ROC	1	Good combustion practices	N/A	AIP
CO	1	Low-NO <sub>x</sub> burner, flue gas recirculation	100 ppmvd @ 3% O <sub>2</sub>	AIP
SO <sub>x</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub>	1.a	PUC quality natural gas	≤ 80 ppmv total sulfur and ≤ 4 ppmv H <sub>2</sub> S	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<sub>x</sub> means oxides of nitrogen (as NO<sub>2</sub>) and SO<sub>x</sub> means oxides of sulfur (as SO<sub>2</sub>).
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.