



FURNACE and FLARE

FURNACE EFFICIENCY IMPROVEMENTS • NOx REDUCTION • FLARE GAS RECOVERY • EFFICIENCY SEMINARS • CEMS

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CEMS (Continuous Emission Monitoring System)

BHP provided all phases of engineering including front end engineering, budget estimates, detailed engineering, installation, inspection and start up. The analyzer projects included:

- Sample System
- Analyzer Specifications & Purchase
- Analyzer / Control System Interface Design

The projects cost rang up to \$500,000.

BHP Heater Analyzer Projects

Year	Client	Project Description	Analyzed
2005	CITGO	#4 Platformer Heater CEMS	NOx, O ₂
2003	CITGO	SRU Claus Air Demand Analyzers	H ₂ S, SO ₂
2000	CITGO	SRU Tail Gas Incinerator CEMS	SO ₂ , O ₂
1998	CITGO	#2 FCCU CEMS	NOx, CO, O ₂
2005	FHR	MIO Crude Boiler CEMS	NOx, CO, O ₂
2004	FHR	#2 Parex Heater CEMS	NOx, CO, O ₂
2004	FHR	Toluene Heater CEMS	NOx, CO, O ₂
2003	FHR	Thermal Oxider CEMS	H ₂ S
2002	FHR	MSTDP Heater CEMS	NOx, CO, O ₂
2001	FHR	BTX Heaters CEMS (4 Stack System)	NOx, CO, O ₂
2003	Valero	Three Rivers Fuel Gas H ₂ S Analyzer	H ₂ S

+ Numerous other on-line process analyzer projects



FHR BTX Heaters CEMS (4 Stack System) NO_x, CO, O₂

Firing Efficiency Analyzer O₂ & Combustibles



Manual Operation



Automatic Operation