

Fort Berthold Federal Implementation Plan
Control Device Monitoring Cost Data Analysis for ICR Burden
February 2013

Cost Parameter	EOG ^a	QEP ^a	Single Tip Utility Flare Scenario with 1 Enclosed Combustor	Average Facility ^b 1 Single Tip Utility Flare w/ continuous pilot and 2 enclosed combustors w/ 2 auto ignition
Auto ignition - Total Capital Investment	\$12,000.00	\$4,100.00		
Auto Ignition - Life Expectancy	10	10		
Auto Ignition CRF Factor @ 7%	0.14238	0.14238		
Auto Ignition - TCI annual cost	\$1,708.56	\$583.76	\$1,146.16	\$2,292.32
Auto ignition - Annual O&M cost	\$1,000.00	\$1,500.00	\$1,250.00	\$2,500.00
Auto ignition - Total Annual Cost	\$2,708.56	\$2,083.76	\$2,396.16	\$4,792.32
Continuous Pilot - Total Capital Investment	\$12,000.00	\$4,500.00		
Continuous Pilot - Life Expectancy	10	10		
Continuous Pilot CRF Factor @ 7%	0.14238	0.14238		
Continuous Pilot - TCI annual cost	\$1,708.56	\$640.71	\$1,174.64	\$1,174.64
Continuous Pilot - Annual O&M cost	\$1,000.00	\$3,500.00	\$2,250.00	\$2,250.00
Continuous Pilot - Total Annual Cost	\$2,708.56	\$4,140.71	\$3,424.64	\$3,424.64
Total Capital Cost for Typical Facility				\$3,466.95
Total O&M Cost for Typical Facility				\$4,750.00
TOTAL - Total Annual Cost				\$8,216.95

^a EOG and QEP were the only 2 operators to include annual O&M cost specific to control device monitoring operations

^b On average, an oil and natural production facility was determined to consists of 2 wells per facility. We based our cost estimate on 1 utility flare and 2 enclosed combustors for each oil and natural gas production facility.