UAE Refinery - Oil and Gas

CAPACITY: 500,000 Barrels per day

A major oil and gas operator in UAE contracted CMC to deliver and certify 28 PEMS and 3 CEMS along with a mobile CEMS for compliance on their refinery stacks. A SmartCEMS® PEMS was started-up to record the operating and emission data in September of 2008 for all of the units. A data acquisition system was provided by Honeywell Xceed and was started-up to record the operating and emission data in the October of 2012. The DAS collects the process and gas flow data for the compliance monitoring system. The system utilizes the signal from the gas flow monitor and other boiler parameters and the results of test data to calculate emission rates

Not actual site. Source: Arabian Gazette

The PEMS was started-up to record the operating and emission data prior to certification. The PEMS was certified to monitor SO_2, NO_x, O_2, CO, and CO_2 from the boiler and heater exhaust stacks. The unit oxidizes LNG sour gas to eliminate noxious emissions. The burners utilize fuel gas generated at the site for combustion.

A SmartCEMS® PEMS was also deployed to monitor five flares. These were specifically developed to run with an emission factor that would run a Continuous Parametric Monitoring System (CPMS).

DAS System: PI-Osi Soft
History of Project Development:
01/10/2011
Project Start Date.
12/20/2013
Setup and installed hardware, collected emission data.
03/01/2014
Site acceptance testing.

PRODUCTS:

SmartCEMS-60 PEMS
Analyzer Shelter for PEMS
Compliance Assurance Monitor
Configuration Tools
Continuous Parametric Monitoring System
Mobile CEMS
PEMS Analyzer
Remote Automated Sample and Calibration
Remote Terminal Unit
Sample Interface Panel
Server
Sample Line