

## INDUSTRY SEGMENTS

- Refining
- Chemical
- Power

**Vector's Continuous Emissions Monitoring System (CEMS)** is the complete solution to comply with EPA requirements. At our Pearland campus, the engineered package is designed and integrated to meet regulatory permits.

## MANUFACTURING PARTNERS

thermo scientific



Dräger



## WHY VECTOR CAG

### Cool-Dry Extractive Systems

- Sample gas is extracted and conditioned to remove moisture prior to analysis
- Conditioning at the CEM shelter
- Heated sample line is required to keep the wet sample above its dew point until it reaches the moisture removal system

### Hot-Wet Extractive Systems

- No moisture removal - Moisture remains in the system throughout the sampling and measurement process
- Sampling line, pump, and analytical equipment are heated to ensure the wet sample is analyzed hot, and gas is wet

### Points to Consider

- Temperature of the sample
- Moisture content in the sample
- Dew point of sample gas
- Particulate content in the stack
- Corrosive components in the sample
- Range of the analyzer
- Area classification, (safe area or class 1 div 2)
- Maintenance requirement of the analyzer

### Calibration

Calibration of an analyzer ensures that the analyzer is reading the certified gas correctly. Calibration gas sent to the probe and back to ensure no bias in sample system.

### Testing

- 7 day drift prior to going live
- Daily validation
- Quarterly CGA
- Yearly RATA

