Emission Data Review 101

Parameters to Consider

- NOx
- O_2
- CO
- CO_2
- SO_2
- Fuel Flow
- Megawatts
- Heat Input

Things to Consider for O_2

Readings above 20% O2 during startup (when CeDAR is not applying a 19% cap).

High O2% readings in the middle of a long run time.

Things to Consider for Fuel Flow

Megawatt values with little or no fuel flow.

Max fuel flow readings for a significant period of time (especially with load changes).

CEMS Downtimes in CeDAR

CEMS Downtimes only apply to Part 60 data.

A CEMS Downtime is anytime the unit is operating and the data is either missing or invalid.

Missing data occurs when CeDAR is not running AND the PLC is not running.

CEMS Downtimes in CeDAR

Invalid data can occur for various reasons such as:

- A missed or failed QA test
- A malfunction with an analyzer or fuel flowmeter
- A sample handling system malfunction

CEMS Downtimes in CeDAR

Use the Edit Excess Emissions and CEMS Downtime window in the CeDAR Database Editor

or

the CEMS Downtime Report in CeDAR Reports to identify CEMS Downtimes.

CEMS Downtimes in CeDAR

Things that you can check to see why a downtime may have occurred:

Alarms – either in the Data Editor Alarm Log or the Alarm Report

Minute Data on the Hourly Report or Audit > Minute Data Report.

CEMS Downtimes in CeDAR

Remember that CeDAR does not go backwards to invalidate data for any 4X calibration check fail for Part 60 calibrations.

If you have a 4 X calibration check fail, you will need to manually invalidate the data back to the last passing calibration check and rebuild the CEMS downtimes.

Part 75 Data in breez75X

Remember to check the Part 75 calibration checks under Emissions > View daily cal checks.

Check hourly data for late/missing calibration checks.

Fill in a 1 or a 0 in the NOx controls operating properly column whenever you have invalid NOx.

Part 75 Data in breez75X

Resolve all of the serious errors in the hourly data and pay attention to the warnings.

The warnings could indicate other data issues that need to be resolved including time periods when the unit was operating but the data is marked offline.

Part 75 Data in breez75X

Things that breez75X doesn't check for:

The Part 75 NOx bias factor

The QA status for QA tests other than the daily calibration checks.

Thanks for watching!