# 2016 CiSCO CEMS User's Group

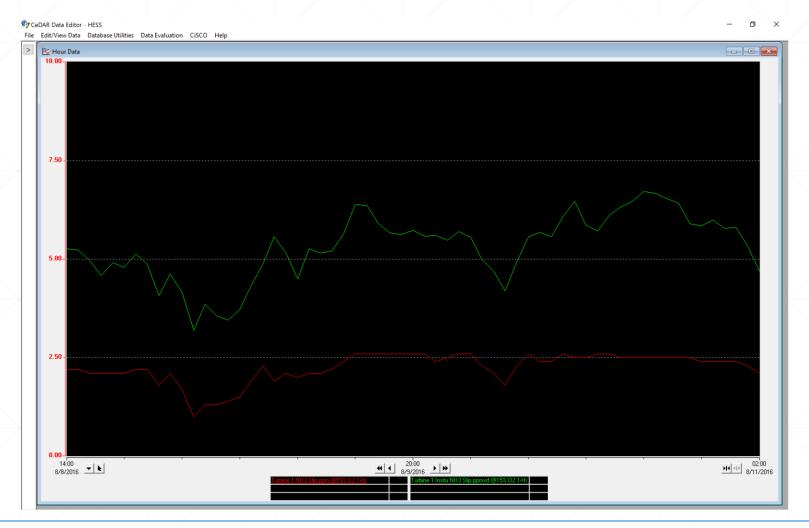
NH<sub>3</sub> Monitoring and Determination

What we know now – a follow up

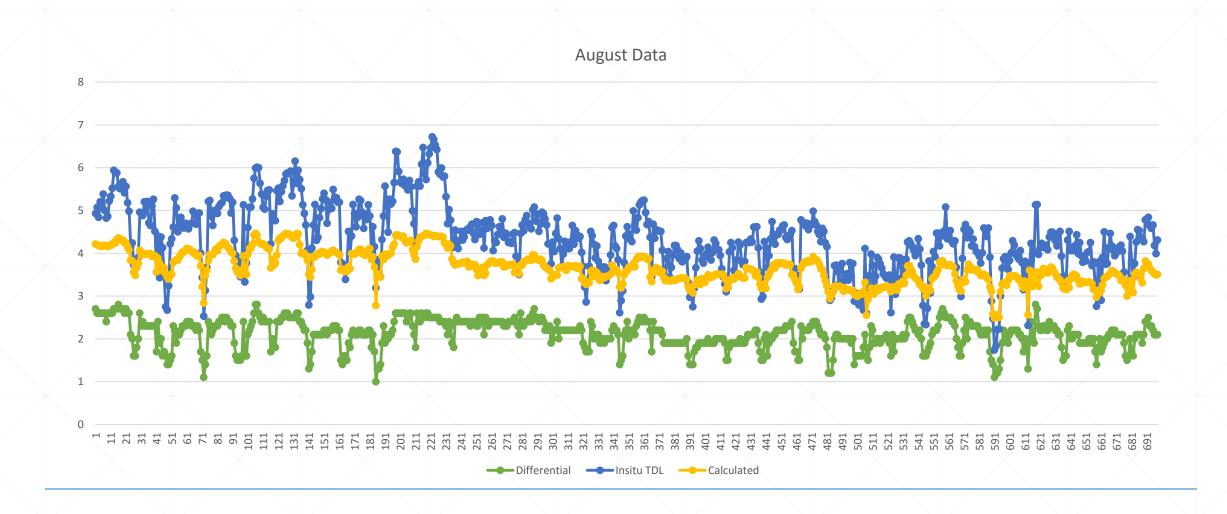
# The Case Study

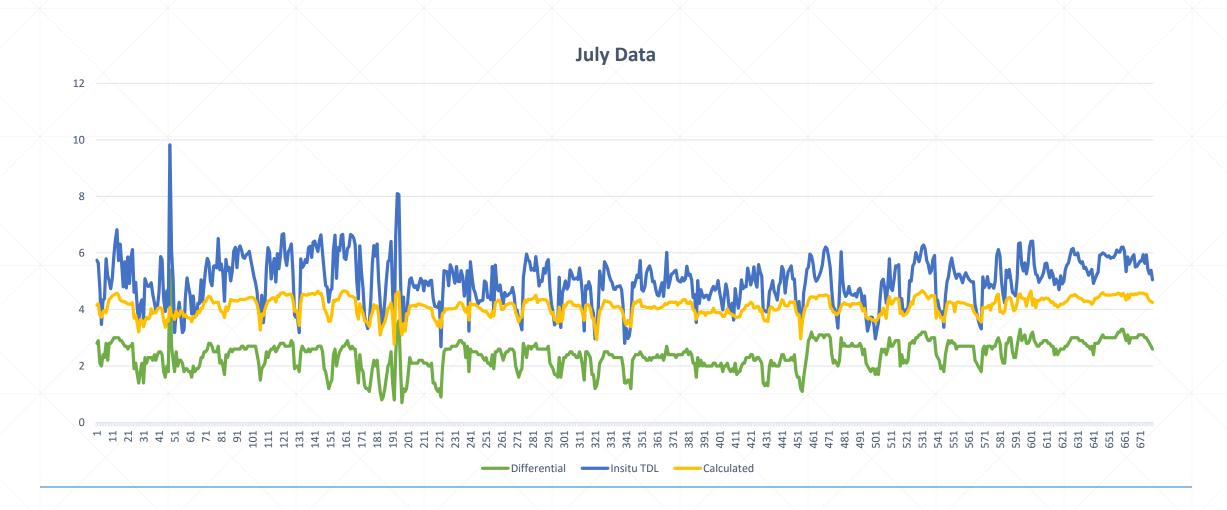
- Site in New Jersey
- Combined Cycle Combustion Turbine
- Site has been certified and running for over a year
- There is a high temp  $NH_3$  to NO Converter at the probe with split sample line to two  $NO_x$  analyzers (traditional  $NH_3$  determination method).
- Also have a SCR  $NO_X$  analyzer so we can calculate  $NH_3$  Slip using a traditional calculation (also need amount of  $NH_3$  injected)
- There is a cross stack TDL (Tunable Diode Laser) NH<sub>3</sub> analyzer at the stack
- There is an extractive TDL analyzer at the probe, but communication issues with the PLC have prevented data collection from that analyzer

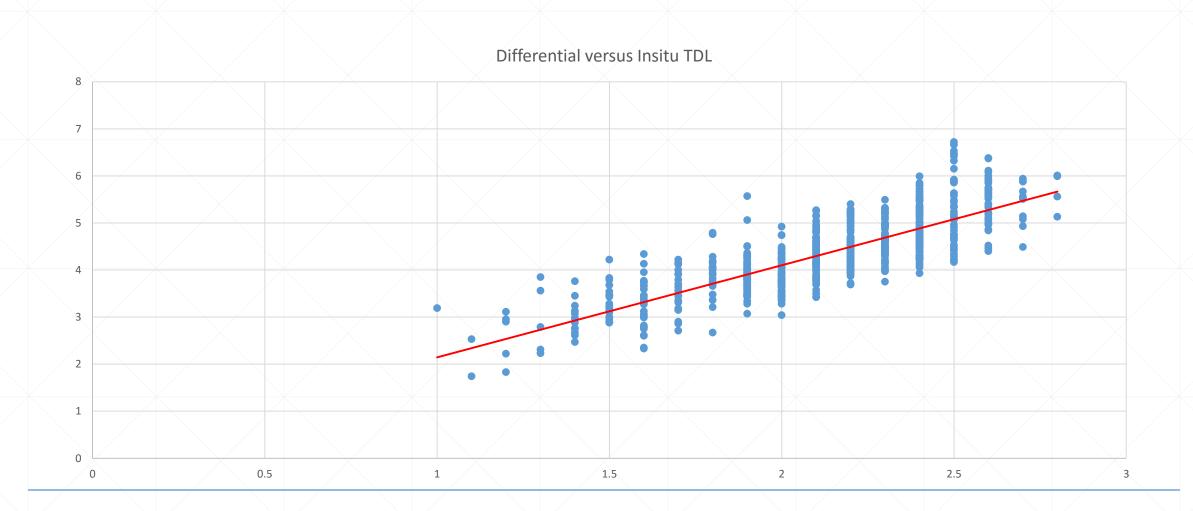












#### Conclusions

- Correlation statistically, r = 0.80
- Need some more information from the site (stack testing, etc.)
- Going to continue to look at data from site
  - Want to look at Startup data more closely
  - Want to see if a new NH3 to NO converter changes the data
- Hope to put together a formal presentation by EPRI 2017

# What's Next

CeDAR Updates