



Direct Measurement Issues in a Mandatory Reporting Environment

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Direct Measurement Topics

- ^ Measurement Tools
- ^ Company Data Collection
- ^ Contractor Data Collection
- ^ Data Collection Conclusions

Measurement Tools

Tools	Vented	Non-Vented
Hi-Flow	X	X
Vent Bag	X	X
Insertion Meter		X
Orifice Plate	X	
Turbine Meter	X	
Hot Wire	X	

Company Data Collection

- ▲ Conducting fugitive measurements in a mandatory reporting environment with company personnel
 - Safety – new tasks for company employees
 - Communication – develop and communicate internal data collection policies
 - Using Portable Tools – bench test using typical process gas versus air and convert
 - Using Insertion/Turbine Meters – take care if reducing vent pipe
 - Meter Span Accuracy – be mindful of span of measuring device
 - Data Collection System – interactive system for readings

Contractor Data Collection

- ▲ Conducting fugitive measurements in a mandatory reporting environment utilizing contractors
 - Safety – ensure proper safety policies are in place
 - Must have a good working knowledge of site specific equipment and operation
 - Must be able to trace pipe
 - Example – same measuring point for main engine fuel and block and bleed valve. (Depends on mode)
 - Ensure technicians have been properly trained and contractor has internal training in place
 - Ensure tool testing and calibration policies are in place
 - Data System Collection System access

Data Collection Summary

- ⤴ Did I mention SAFETY
- ⤴ Data collection process must be managed
Including follow up measurements
 - Process should include post reading handling after a repair
- ⤴ Accurate Data is NOW a Must!
 - Readings could reflect our industry
- ⤴ \$ impact is now on the table. Thorough QA/QC is paramount!