

Welcome to Lambda Measurement Solutions

How we can help you reduce your operating costs.

Measurement systems, practices and procedures are the means from which the corporate financial statements are derived for all blending, rail car loading, trucking, pipelining, storage and refining operations.

These systems form the corporate front line cash register from which custody transfer products are transacted and paid and where the effectiveness of pipeline leak detection systems are based.

It is therefore mandatory to have a sound well defined measurement design and installation criteria as well as equipment calibration and commissioning procedures, meter proving process, staff measurement systems training and measurement audit system in place to ensure the accuracy of this data.

Measurement systems also include any product quality determination that is performed on the commodities you market. For instance, this would include sulfur, density, TAN, pour point and viscosity for crude oil or H₂S, total sulfur, hydrocarbon composition, sulfur and H₂S for natural gas liquids.

Lambda Measurement Solutions Ltd can develop this plan for you and will review your companies existing processes with respect to:

- Meter run design and installation criteria
- Product volumetric flow allocation processes
- Corporate measurement policies
- Product specific measurement policies
- Defining impact of product density blending shrinkage on system shortages
- Processes to update metering schematics and sample points
- Defining effects of ground temperature changes on system inventories
- Establishing SCADA system role in measurement system verification
- Establishing PLM system role in measurement system verification
- Effectiveness of existing pipeline leak detection systems

Lambda Measurement Solutions Ltd also has the experience; training and the ability provide many other measurement related reviews including:

- Conducting a measurement review to provide a formal report on your operations compliance to current quality assurance and control policies.
 - Working with current measurement field coordinators to assess training requirements and defining their roles and responsibilities.
 - Conducting annual measurement reviews to ensure continued compliance to new policies and new regulations.
 - Developing action plans to address measurement deficiencies identified during measurement review audit process.
- We can assess the uncertainty, repeatability and reproducibility of your existing measurement systems and processes and establish a baseline accuracy statement. Based on this we can make recommendations and specific engineered measurement improvements that will reduce the over/short liability your bottom line and investors are currently absorbing.

We can review the operation of your existing system and ensure it is in compliance with API best practices and establish a base line for current operation and determine if it will meet custody transfer grade measurement as a system.

We can also confirm that your refined products measurement system will meet with Measurement Canada approval.

Crude oil and refined product costs will continue to grow, so it is important to move today and make the investment in accurate measurement systems and well defined, effective documented procedures and reporting.

This investment will continue to leverage this capital expenditure as commodity prices continue to increase and so do the costs around ineffective volumetric and qualitative measurement policies and systems.