Kuwait 4th Flow Measurement Technology Conference
3-5 December 2019
Hilton Kuwait Resort
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Kuwait Oil Company

الراعي الرسمي
Customisable interface, organize your metering, your way.
What is custody metering:

**Custody Transfer** in the oil and gas industry refers to the transactions involving transporting physical substance from one operator to another. This includes the transferring of raw and refined petroleum between tanks and tankers; tankers and ships and other transactions. Custody transfer in fluid measurement is defined as a **metering point** where the fluid is being measured for sale from one party to another. During custody transfer, **accuracy is of great importance** to both the company delivering the material and the eventual recipient, when transferring a material.
Custody Metering:
- Measurement in the field
- Computation in control system
- Representation and historization
- Reporting of quantity and quality
- Data transfer to central system (DCS/SCADA)

What all it takes:
- Reporting correct quantity and quality
- Monitoring – CBM
- Health check
- Validation
- Maintenance scheduling and records
- Handling mis measurement
- Dispensation
Metering Systems

What all it takes:

- Reporting correct quantity and quality
- Monitoring – CBM
- Health check
- Validation – uncertainty
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- Asset management
EyeMet is a metering Management Information System (MIS) - a solution that provides a high-level overview of the status and performance of a company's metering systems. The dashboards graphically represent metering data in order to clearly illustrate information for metering technicians, metering engineers and managers, enabling appropriate and informed operational decisions to be made.

High level data management / dashboard type system interfaces have been available for some time; however, they are generic plant wide systems that don't focus on the specifics of the metering systems or provide any financial risk/exposure data.
EyeMet – Architecture
Management Information System

Throughput and exposure charts

Interactive Map

Region Performance/Health
Interactive Map Sites Lists, allows access to instrument list Inventory Dashboard
Instrumentation List
Interactive Map with health indication. Click to zoom in.
Dashboard showing breakdown of factors contributing to measurement uncertainty.
Drilldown into individual stream uncertainty.
View instrument validation schedules.
View historical meter calibration results.
Monitor instrument maintenance/validation completion rates.
## Mismeasurement Report

### Irregularity Report

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WWW.KUWAIT-MEASUREMENT.COM
Store key site documentation online, and easily accessible.
Features

+ Metering MIS (Management Information System)
+ Companywide Metering Overview / Dashboard
+ Live uncertainty
+ Modular
+ Asset Management
+ Predictive Maintenance
+ Documentation
+ CBM (Condition Based Monitoring)
+ Multi-level
  + Local
  + Administration
  + Corporate

+ Made up of 4 layers:
  + Whole Country (or Company)
  + Province / Regions
  + Individual Metering Stations
  + Individual Meter Stream
+ Real-Time metering uncertainty calculations built in.
+ Mass balance calculations across pipeline systems
+ Centralise inventory of all components associated with each metering station.
+ Interactive map providing user with live status of each metering system.
Metering Systems + EyeMet

- Reporting correct quantity and quality
- Monitoring – CBM
- Health check
- Validation – uncertainty
- Maintenance scheduling and records
- Handling mis measurement
- Dispensation
- Asset management
THANK YOU