



Measurement Consultancy Services

Overview

KELTON has a worldwide reputation for the provision of outstanding flow measurement consultancy and independent audit services.

Audit Services

KELTON recognise the value and subsequent benefits of auditing the various stages of the development, design, installation, commissioning and operation of a measurement and allocation system including:

- Pre-design and design
- Pre and post-commissioning
- Compliance
- Management
- Allocation

Measurement Uncertainty Calculations

KELTON provide measurement uncertainty calculations for liquid and gas hydrocarbon measurement systems with the following deliverables:

- Data gathering and review (including a site survey, if required)
- Construct and populate the appropriate UNCERTAINTYPLUS™ modules
- Prepare an uncertainty report

Engineering Studies

KELTON understand the importance of ensuring that any proposed metering system is fit for purpose. The scope of service encompasses:

- Conceptual study
- FEED study
- Basis of design
- System specification
- Detailed engineering design
- EUETS uncertainty calculations
- Dataflow analysis and uncertainty

Metering Documentation

The KELTON service starts when projects end, as the system vendor would normally provide a functional design specification, operating instructions, material/equipment certification and unique system data. The KELTON service is aimed at the commissioning, operation and routine calibration of a metering system by the provision of experienced consultants providing:

- Metering manuals
- Pre-commissioning and commissioning procedures
- Operating procedures
- Calibration procedures
- Tolerance and configuration manuals
- Log books

Management of Measurement

KELTON provide their customers with an effective value added service to manage their measurement requirements to ensure:

- Measurement systems are operating accurately
- The risk of losses are minimised
- Reduction in effort
- Reputation is maintained
- Promotion of a 'we know what we are doing' culture for all stakeholders
- Reporting is accurate, meeting all requirements
- Production data is validated and accurate
- Mis-measurements are minimised
- Overall uncertainty in measurement is managed
- Traceability is maintained
- Validation is effective
- Compliance with regulations and agreements

Training

KELTON offer a number of standard and bespoke flow measurement training courses. Over 5,000 delegates have attended including process engineers, analyser technicians and production supervisors. Courses include:

- Standard three-day CPD accredited flow measurement of hydrocarbon liquid and gas
- Two-day flow measurement of hydrocarbon liquid
- Two-day flow measurement of gas
- One-day multiphase flow measurement
- One-day wet gas flow measurement
- One-day introduction to uncertainty in measurement
- One-day introduction to allocation systems

Measurement System Support

KELTON provide client support through a network of consultants, all of whom have a wide range of hydrocarbon measurement expertise from design through operation, metering management and support services. Service is currently provided for major oil and gas producers throughout the world and includes:

- Metering support
- Contract strategy
- Maintenance and calibration of system equipment
- Test equipment
- Spares management
- System equipment performance evaluation
- Mis-measurement reporting
- Management consultancy
- Documentation - log books, site diary, test equipment certification file, field equipment certification, calibration records file, procedures manual, etc.
- Hydrocarbon accounting - production and sales allocation, pipeline hydrocarbon accounting and reporting, invoicing/ payment/share ownership

Why KELTON

- Independent
- Outstanding reputation
- Extensive experience
- Worldwide reach
- Best in class

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