

Richard (Rick) Rans

Profile

Specialist in the field of Gas Transmission and Measurement. Ready to address design and operating problems to produce "Best in Class" solutions. Proven innovative results in both domestic and overseas assignments. Contributes solid understanding of business and technical needs to design, operating and measurement uncertainty/system balance problems and solutions. Collaborative work style in all projects undertaken.

PROFESSIONAL EXPERIENCE

RANSOLUTIONS LTD

2005-Present

Principal

Provided measurement consulting services to Emerson, Photon Control, Shell Canada, TransCanada, Williams Exploration and Production, Duke Energy Services, SemCAMS, Gaz Metro and PRCI. This work has focused on upstream measurement, system balance and measurement uncertainty issues.

TRANSCANADA (NOVA Gas Transmission Prior to Merger)

1995 - 2004

Measurement Process Leader/Specialist

Established, lead and participated on natural work teams to maintain and enhance the Physical Measurement and Station Measurement portions of the Gas Management Process.

- Leadership of multi-discipline and multi-business process natural work teams. Analysis of strategic business needs, innovative application of technology and the development of strategies/directions.
- Business Area Champion on the Measurement Integrity Program.
- Liaison with industry peers and management of vendor/consultant contacts including the identification and establishment of alliances.
- Represent TransCanada on the American Petroleum Institute Committee on Fluid Gas Measurement.
- Coaching and mentoring team members.
- Consultation and business direction services to other process areas to ensure integration and alignment of process plans and objectives.

1993 - 1994

Technical Supervisor - Novacorp (Malaysia)

Managed a team of Engineers and Technicians responsible for technical/engineering design. Project included approximately 500 km of 914mm pipeline and one major meter station.

- Development of specifications covering all aspects of pipeline and meter station major material.
- Design of Scraper Traps and Block Valves.
- Stress analysis of the Pipeline and Meter Station.
- Design of the temporary and permanent Cathodic Protection system.
- Design of the Meter Station Measurement and Control System
- Liaison between the Design Team and the Operations and Maintenance Team
- Coaching/training of the design team and local staff.

1990 - 1992

Technical Services Manager - Novacorp (Malaysia)

Managed and provided technical direction to a team of Engineers and Technicians responsible for the start-up of and the operation and maintenance of a major Malaysian gas utilization project. The system consisted of over 900 km of 102mm to 914mm Natural Gas Pipeline, 200 km of 164mm & 208mm Propane and Butane Pipeline, 14 natural gas and 2 liquid product meter stations, 1 compressor station and an integral SCADA & Telecommunication system.

- Co-ordination between the Regions/Customer Companies/Project Management/Contractors in the resolution of operating problems.

- Development of operating procedures related to Pipeline, Cathodic Protection, Meter Stations, Compressor Station, and SCADA and Telecommunications.
- Engineering design and modification of facilities including drafting and presentation services.
- Accountable for the day to day operation of laboratory services
- Supervision of mechanical services.(heavy equipment, welding and emergency repair)
- Support of the computer and communication systems for electronic mail, materials and maintenance management and office automation.

1985 - 1990

Senior Engineer - Gas Control and Measurement

Engineered operating and maintenance solutions for natural gas measurement and gas control.

- Design of Real Time Measurement which combined measurement and SCADA functions into a single system.
- Development of an implementation plan to convert all measurement facilities from chart based measurement systems to Real Time Measurement
- Working member of the API standards committee which developed "Flow Measurement Using Electronic Metering Systems"
- Developed the "Rans Methodology" for determination of flow computer calculation frequency incorporated into the API standard.

1986 - 1987

Senior Engineer - Operations Information Systems (1 year Secondment)

Developed a 5 year plan to modernize the SCADA and Gas Supply and Measurement system.

- Engineered data collection and processing strategies.
- Monitored and controlled of over 250 customer accounts at over 1000 metering locations.

1984 - 1985

Technical Specialist - Novacorp International Consulting

Providing start-up and commissioning expertise for a major Australian natural gas pipeline. This system consisted of over 1500 km of 508mm pipeline and 7 meter stations.

- Commissioned of the seven meter stations.
- Development of operating procedures.
- Analysis/resolution of operating problems.
- SCADA requirements assessment
- Resolved a major metering deficiency at the Gas Producers measurement facility.

1979 - 1984

Measurement Engineering - Team Leader

Supervised a team of engineers and technicians providing technical support to field operations and chart accounting. Over this period the team grew from 8 to 15 people and added an operation engineering function.

1978 - 1979

District Engineer - Field Operations

Responsible for the supervision and direction of Measurement, Controls and Corrosion Technicians. Maintained over 200 measurement facilities, 6 natural gas compressor stations and over 2000 km of pipeline system.

1975 - 1978

EIT/Engineer/Supervising Engineer Pipeline and Compression Engineering

Progressed from being an EIT to supervising an automation engineering team. Work included design and project management of meter stations (mechanical/electrical/I&C/ SCADA systems) and compressor stations (SCADA and automation systems).

Education

1970 - 1975 University of Saskatchewan Saskatoon, Saskatchewan
B.Sc. in Electrical Engineering

Professional memberships

APEGGA - The Association of Professional Engineers, Geologists and Geophysicist of Alberta

API – American Petroleum Institute

Participated as a member of the API 14.10 Flare Metering working group. This standard was approved in 2007.

Currently a working group member of API 21.1 – Electronic Gas Measurement Systems, API 22.4 – Transmitter Testing Protocol and API 22.5 – Flow Computer Testing Protocol

Hobbies

Golfing, wood-working, home renovations and computers.