

# Shani Steinhubl, P.Eng, PMP

## Education

B.A.Sc, Industrial Systems Engineering, University of Regina, 2002

## Additional Training and Short Courses

- Dale Carnegie Effective Communication Certification and Endorsement, 2013
- Dale Carnegie Effective Communication, 2012
- Dale Carnegie, Leadership for Managers, 2012
- Microsoft Project Course- 3 day, 2010
- Prosci Change Management Training, 2010
- NACE Cathodic Protection Technician, 2009
- Project Management Foundation Principles and Techniques, 2009
- Crucial Conversations, 2009
- Six Thinking Hats, 2008
- NACE Basic Corrosion, 2007
- Project Management Professional Preparation Course, 2007
- CSA Z662 Training - 4 day course, 2006
- WHMIS, 2006
- Thinking on Your Feet, 2004

## Career Summary

Feb 2014 - Present	Leviosa Industries Inc. Owner / Principal Consultant
August 2011 - January 2014	TransGas Limited Manager, Transmission Operations Effectiveness, Transmission Operations
February 2006 - August 2011	TransGas Limited Senior Engineer, System Integrity
September 2003 - February 2006	TransGas Limited Engineer, Measurement & Standards Engineering
July 2002 - July 2003	Jacques Whitford Environment Limited Environmental Engineering Consultant

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## Memberships / Associations

- Association of Professional Engineers and Geoscientists, Member
- Consulting Engineers of Saskatchewan, Member
- Project Management Institute, Member

## Summary of Experience

Ms. Steinhubl has a broad range of experience gained primarily in the Oil and Gas industry while working at TransGas Limited. Throughout her career she held several roles in a variety of departments including the transmission operations, system integrity and measurement & standards engineering. In all of Ms. Steinhubl's experience the common thread was the development, implementation and management of continuous improvement projects. This experience has provided Ms. Steinhubl with practical, applicable knowledge of management systems and their implementation.

In her role as Manager of the Transmission Operations Effectiveness group at TransGas, Ms. Steinhubl was responsible for providing direction, analysis and recommendations to District Managers to improve the effectiveness of Transmission Operations Personnel (100 employees) and providing oversight of \$20 million Operating, Maintenance and Administration (OM&A) budget. She was also responsible for designing and directing the use of a Computerized Maintenance Management System to manage preventative maintenance of over 10,000 individual pieces of equipment. She was also responsible for managing the development and execution of a newly implemented computerized work scheduling system for Transmission Operations Personnel.

As a Senior Engineer in TransGas' System Integrity department Ms. Steinhubl was responsible for designing, developing and implementing Integrity Management Programs using risk-based management principles to ensure the safe and reliable operation of over 14,000 kms of steel, high pressure natural gas transmission pipelines and 65,000 kms of steel and plastic distribution pipelines. She was also responsible for implementation of programs included planning, managing and executing numerous projects throughout the province, involving engineers, contractors, field personnel and consultants, to detect, prevent and mitigate integrity concerns on infrastructure.

As the Quality Management Representative for SaskEnergy and TransGas' federally regulated Measurement Quality Assurance Program (QAP) (statistical validation program for establishing the accuracy of natural gas measurement equipment) Ms. Steinhubl was responsible for developing Quality Assurance Documentation to meet the requirements of Measurement Canada which ensured continued accreditation for completing in-house statistical validation of measurement equipment. Specific accomplishments included expanding the scope of the quality assurance program resulting in the additional accreditation / certification for Electronic Volume Controllers, Sonic Nozzle Provers, TC Modules and Turbine meters.

In her roles as an environmental consulting engineer Ms. Steinhubl was responsible for compiling and reporting audit findings providing references to the specific regulations, codes or best industry practices. Conducting audits at client facilities ranging from material storage yards, power transmission substations, warehouses, mine sites and general operating areas. She also worked with clients developing ISO 14001 documentation for and records management procedures for uranium mining industry by working with and interviewing staff at their facilities to determine current practices and areas for improvements.

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## Project Experience

\* denotes that experience was gained as an employee

### Project Management

- Project Lead for TransGas Access Road Engineering, Procurement and Construction (EPC) Project which included performing market investigation in standard road EPC approaches, developing scope of work and RFP, award and management of winning proponent work, 2014
- \*Business Lead / Project Manager for Preventative Maintenance Identification Project resulting in the accurate inventory of over 10,000 pieces of transmission system operating equipment, identification of preventative maintenance requirements, creation of preventative maintenance expectation documentation and implementation into the corporate computerized maintenance management system, 2012 - 2013
- \*Business Lead / Project Manager for selection and implementation of Fleet GPS system resulting in the successful tracking of 100 TransGas fleet vehicles to ensure employee safety and enhance emergency response, 2011
- \*Project Manager for the installation of AC Mitigation equipment on NPS 4 pipeline paralleling a high-voltage transmission power line resulting in the successful suppression of induced current on the pipeline, 2009
- \*Project Manager for the assessment and repair of stress corrosion cracking features in NPS 12 pipeline resulting in the efficient return to operating pressure service of a critical piece of infrastructure, 2008
- \*Project Manger for Ultrasonic Inline Inspection (ILI) of 165 km, NPS 12 pipeline resulting in successful acquisition of critical pipeline data that met the requirements of the project specifications, 2007
- \*Project Manager for Validation of Ultrasonic Inline Inspection Tool resulting in the speedy turnaround of critical data and the development and execution of an infield validation exercise that verified the accuracy of the initial tool run, 2007
- \*Project Manager for Regina West Interconnect Project resulting in the design and installation of enhanced orifice measuring equipment to provide increased capacity and redundancy, 2005
- \*Project Assistant for Cabri Propane Injection Facility resulting in the increased heating value of natural gas at Injection Facility, 2004

### Management Systems & Process Management

- Development of process, procedure, work instruction, templates and tools for the implementation of a Project Server 2014 implementation and Project Management Office for TransGas, 2014.
- Development of technical procedures, work instructions, tools and templates and management system for TransGas Transmission Pipeline Design Build Program, 2014
- Development of use guideline for creation of Lockout Procedures on TransGas equipment to meet the requirements of CSA 460-13: Control of Hazardous Energy - Lockout and Other Methods, 2014
- Revision of Ministry of Environment environmental audit protocols, 2014
- \*Development and implementation of Preventative Maintenance program documentation for natural gas transmission and compression equipment, 2013
- \*Development and implementation of Stress Corrosion Cracking Integrity Management Program for high pressure natural gas pipeline system, 2006, 2007, 2008, 2009, 2010, 2011

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- \*Development and implementation of External Corrosion Integrity Management Program for high pressure natural gas pipeline system, 2008, 2009, 2010, 2011
  - \*Development and implementation of Leak Survey Program for natural gas distribution and transmission pipeline system, 2006, 2007
  - \*Redesign of management system documentation for executing direct assessments and repair of pipelines resulting in a manageable, easy to use handbook for easy field reference and adherence, 2007
  - \*Development of documentation and process for managing gas measurement between upstream suppliers and transmission company resulting in Measurement Canada permission for low intervention trade to occur between the two parties, 2006
  - \*Development of documentation and process for statistical proving of diaphragm meters using a SNAP (Sonic Nozzle Auto Prover) as the measurement proving device resulting in Measurement Canada Accreditation to use the device for in-house meter proving, 2006
  - \*Development of documentation and process for statistically proving turbine meters resulting in Measurement Canada Accreditation for in-house meter proving, 2006
  - \*Development of documentation and process for statistically proving TC Module devices for temperature correction resulting in Measurement Canada accreditation for in-house proving, 2005
  - \*Development and chair of Management Review Committee for the quarterly review of nonconformances resulting from a measurement quality assurance program, 2005
  - \*Development of documentation and process for statistically proving Electronic Volume Correction (EVC) devices for volume correction resulting in Measurement Canada accreditation for in-house proving, 2004
  - \*Development of process documentation and records management systems for ISO 14001 requirements for Cameco, 2003

## Pipeline Integrity & Engineering

- Support member for Canadian Energy Pipeline Association (CEPA) Integrity First Self-Assessment of TransGas' Pipeline Integrity Program. Included data collection, staff interviews, report development and recommendations for continual improvement, 2014
- Review of 2014 Rural Municipality (RM) road work programs to determine potential impact on TransGas pipelines and communicating impact requirements to RMs, 2014
- Review of TransGas 2013 pipeline construction builds to determine frequency of parallelism with other facilities and infrastructure, 2014
- Market investigation of pipeline construction inspection service providers to establish baseline for TransGas contracting requirements, 2014
- \*Emergency response and investigation of six (6) pipeline external interference incidents, 2007-2011
- \*Onsite supervision and repair assessment of external corrosion and external interference features on NPS 12 pipeline - 12 sites, 2010
- \*Onsite supervision and repair assessment of stress corrosion cracking and manufacturers defects on NPS 12 pipeline - 18 sites - 2008
- \*Onsite supervision and repair assessment of external corrosion features on Success TCPL pipeline - 2 sites, 2007
- \*Onsite supervision and repair assessment of external corrosion and external interference features on NPS 16 Rosetown Regina pipeline - 11 sites, 2007

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- \*Onsite supervision and management of Ultrasonic Inline Inspection (ILI) for 165 km NPS 12 pipeline, 2007
  - \*Onsite supervision of direct assessments for validation of Ultrasonic Inline Inspection Tool of NPS 12 pipeline - 14 sites, 2007
  - \*Onsite supervision and repair assessment of external corrosion on Regina - Tuberose pipeline - 3 sites - 2006
  - \*Onsite supervision and repair assessment of external corrosion on Whitewood Yarbo NPS 10 pipeline - 6 sites - 2006
  - \*Onsite supervision and investigation assessment for stress corrosion cracking on Alberta Beacon Hill NPS 10 pipeline - 3 sites - 2006
  - \*Onsite supervision and repair assessment of external corrosion, external interference and stress corrosion cracking features on NPS 16 Loomis - Herbert pipeline - 2006
  - \*Onsite supervision and repair assessment of external corrosion and stress corrosion cracking features on NPS 12 Beacon Hill Prince Albert pipeline - 4 sites, 2006
  - \*Onsite supervision and repair assessment of external corrosion features on Payton Bigger pipeline - 3 sites, 2006
  - \*Design and development of Ultrasonic Inline Inspection (ILI) for 165 km NPS 12 pipeline, 2006
  - \*Testing and evaluation of new-to-market gas measurement device (Dattus Meter) that relied on fluidic oscillation principles resulting in the deployment of the devices at several locations for further assessment and analysis, 2006
  - \*Testing and evaluation of multiple brands and styles of service regulators to replace discontinued model resulting in the specification of an appropriate replacement model, 2005

## Auditing

- Environmental Compliance Auditor for Cameco Cigar Lake, 2014
- Environmental Compliance Auditor for Cameco Key Lake, 2014
- \*Auditor of SaskEnergy measurement quality assurance program (pre-internal-audit), 2004, 2006
- \*Assistant Auditor of ISO 14001 Environmental Management System at approximately ten (10) SaskPower substation facilities, 2003
- \*Assistant Auditor of ISO 14001 Environmental Management System at Mosaic K2 potash mine, 2003
- \*Assistant Auditor of ISO 14001 Environmental Management System at approximately three (3) SaskPower warehouse facilities, 2003
- \*Preparation of audit reports for ISO 14001 Environmental Management Systems for SaskPower, 2002, 2003
- \*Preparation of audit reports for ISO 14001 Environmental Management Systems for Mosaic K2 Potash, 2003
- \*Preparation audit reports for environmental management system audits of ConocoPhillips Canada, 2002, 2003

## Data Analysis

- Review and revision of TransGas 2013 Engine Hours Report data to facilitate automated key performance indicator generation in sharepoint performance point software, 2014

## Training and Education

- Delivery of 8 Week Dale Carnegie Effective Communications Course (Tandem), October 2013
- Delivery of 8 week Dale Carnegie Effective Communications Course (Tandem), April 2013

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- Presentation on “Stress Corrosion Cracking” at the 2009 Banff Pipeline Conference
  - Presented “Engineering an Ultrasonic InLine Inspection Run” at the 2008 International Pipeline Conference in Calgary, AB, 2008

## **Registrations / Certifications**

- Professional Engineer: Association of Professional Engineers and Geoscientists of Saskatchewan
- Project Management Professional: Project Management Institute