

RESUME

Family (Last) Name: ELL

Given (First) Name: MICHAEL

Contact Data: email: ellmike@shaw.ca

Phone: 403-689-6587, Calgary Alberta

Present Profession: Chief Inspector, Air Liquide Canada

Educational Background:

- Insurance Institute of Canada, University of Toronto & Calgary
Certified Risk Management Diploma (CRM)
Fellowship in Risk Management Diploma (FRM)
- Self-study for all American Petroleum Institute (API) certifications.
- Thompson Education Service
Certificates in High Voltage Electrical Distribution, Preventive Maintenance, HVAC Systems, Welding, Gearing and Waste Water treatment facilities
- National Board of Boiler and Pressure Vessels
Commissioned Inspector #11652 and the NB Supervisor exam.
- Safety and Loss Control Leadership
Certificate in Loss Control
- Southern Alberta Institute of Technology
Diploma (2 year program) in Power Engineering

Professional Background/Qualifications:

- Pressure Equipment Inspector, Class 1 – Province of Saskatchewan
- In-Service Boiler & Pressure Vessel Inspector – Province of Alberta
- Valid/Active National Board Commission as IS+R.
- APEGA P.L.(Eng.) – In progress.
- Power Engineer (PE), First Class, Inter-Provincial Certification
- American Petroleum Institute, API-510 Pressure Vessel Inspector
- American Petroleum Institute, API-570 Process Piping Inspector
- American Petroleum Institute, API-653 Above Ground Tank Inspector
- American Petroleum Institute, API-580 Risk Based Inspection
- American Petroleum Institute, API-571 Damage Mechanisms
- CSA W178.2 Level 3 Weld Inspector/Supervisor
- Weld Specialist, Canadian Welding Bureau
- Member of the Generation Utilities Advisory Committee through Alberta Safety Codes Council
- EPRI Program Advisor
- CAN/CGSB XF Level 2

Major Projects

Project: Chief Inspector – Canadian Jurisdictions

Client: Air Liquide Canada Ltd secondment through SGS Canada Inc

Year: 2016 – Ongoing

Mandate: Pressure Equipment Chief Inspector services for jurisdictions in Canada.

- Client representative for ASME cold-stretched vessel skid packages produced in China
- Consultancy regarding ASME BPVC, ASME Pressure Piping, API, CGA Codes
- Leading Jurisdictional regulatory compliance throughout the organization across Canada
- Re-certification audit PEIMS manual rewrite
- Re-certification audit Procedures and Report generation
- Provide direction for obtaining design registration and CRNs on pressure equipment
- Planning and executing pressure equipment integrity assessments

Project: Shepard Energy Centre, 800MW Combined Cycle – Calgary

Employer: ENMAX

Year: 2011-2015

Mandate: Ultimate Owner's B31.1 Inspector. Ultimate Owners Chief Inspector.

- Responsible for ensuring final acceptance by Jurisdictional and Regulatory Authorities
- Acted as primary resource consultant on stop-work orders issued by the Regulatory Authority

Project: HRSG Upgrade

Employer: ENMAX

Year: 2013

Mandate: Project Lead on Combustion Turbine upgrade effects on HRSG steam generation capacity.

- Responsible for determination that increase of boiler steam generation capacity due to increase heat input from gas turbine upgrade constitutes an alteration with resultant boiler PSV capacity resizing project. I submitted a request for interpretation to the National Board of Boiler & Pressure Vessel Inspectors and upon review they agreed and issued an interpretation.

Project: HRSG & Power Piping Shutdown Lead

Employer: ENMAX

Year: 2013

Mandate: Responsible to ensure Regulatory and Code compliance.

- Creation of inspection plans for the HRSG
- Creation of inspection plans for Grade P91 power piping
- Responsible for resolution of defect discovery
- Responsible for repair planning for Grade P91 power piping

Project: Power plant HRSH conversation from Anhydrous NH3 to Aqua NH3

Employer: ENMAX

Year: 2014

Mandate: Responsible for directing, advising on applicable ASME BPVC and B31 Code requirements for vessels and piping.

Project: HCL Vent Scrubber Upgrade

Employer: ENMAX

Year: 2014

Mandate: Responsible for directing, advising on applicable ASME Code. Chose ASME RTP-1 as the design/construction code to use.

- Sourced and assigned ASME FTP-1 shop
- Performed shop acceptance visit. Assigned client shop Inspector
- Designed, reviewed, accepted, assigned ITPs

Project: API-650 Tank Upgrade

Employer: ENMAX

Year: 2014

Mandate: Lead Jurisdictional and API-650, API-653 compliance on retrofitting tank to accept heating coils.

Project: District Heating System, Calgary

Employer: ENMAX

Year: 2014

Mandate: Project QA/QC /Chief Inspector.

- Main point of contact with Jurisdictional Authority
- Led the investigation and resolution of acceptance of EN pipe material
- Assigning ITPs and assigning NDE requirements
- Resolved product EN piping code issues measured against ASME B31.1 – buried piping
- Project lead for Hot Tapping into existing buried district heating piping system
- Assigned and trained Junior P. Eng. for role as Client Shop Inspector for new 20MW boiler

WORK EXPERIENCE

From 2016 to present

Company: **SGS CANADA LTD**

Position Held: Chief Inspectorate

Brief description of Responsibilities:

- Assigned as SGS ASME AIA, NB Commissioned Inspector
- Develop, implement and verify pressure equipment inspection and maintenance program
- Develop and enhance inspection plans in compliance with pressure equipment safety regulation
- Develop and perform Integrity Assessment training
- Provide training and competency validation of inspection personnel for inspection of pressure equipment
- Assigned as ASME B31 Piping Owner's Inspection (B31.1 & 31.3)
- Provide supervision to inspection personnel and perform spot audits
- Acting as the link between the provincial jurisdiction and the client
- In-shop or on-site quality assurance inspection to verify conformity of work performed by suppliers with contractual requirement of clients

From 2011-2015

Company: **ENMAX CORPORATION**

Position Held: Integrity Lead, Chief Inspector

Pressure Equipment and Pipelines

Brief description of Responsibilities:

- Responsible for ensuring legal & safety requirements are met concerning the life cycle of regulatory mandated pressure equipment and pipeline integrity programs
- Facilitated creation of jurisdictional Pipeline Integrity Program
- Performance of internal and facilitating external audits of power generating plants
- Consultancy to, advised on and direction to Junior P. Eng.'s and EITs regarding Capital Projects relative to applicable Codes, Standards and Specifications. This includes drafting of Scope of Work, Project Inspection and Test Plans
- Standards and Procedures development on pressure equipment and structural steel
- Develop and perform Integrity Assessment training
- Implemented and drove ENMAX membership with EPRI. Acting as EPRI Program Advisor for ENMAX
- Ensured site due diligence regarding power plant purchases
- Lead reviewer of Jurisdictional websites for ongoing QMS ever-greening
- Internal consultant role on Boiler & Machinery Insurance aspects relative to ENMAX as an Owner-User of pressure equipment
- Directly responsible for weld repair program
- Hands on visual inspection tasks

From 2006-2011

Company: **ACUREN GROUP**

Position Held: Integrity Specialist – Pressure Equipment

And Structural Steel

Brief description of Responsibilities: *Integrity Specialist – Pressure Equipment*

- Chief Inspector and/or Chief Power Engineer. Responsible for ensuring legal & safety requirements are met concerning the ownership, inspection, repair and maintenance of Clients Pressure Equipment within an established Integrity Assessment program
- Plant shutdown planning, budgeting and coordination activities based upon operational review of plant equipment with review of plant equipment drawings
- Leadership of Integrity Team members for petrochemical, oil, gas and utility Clients

- Jurisdictional, ASME, API, National Board Code compliance for construction, inspection and repairs of boilers, pressure vessels and pressure piping systems
- Report on and develop non-destructive inspection plans and evaluate results of inspections to assess the integrity and fitness for service of pressure vessels, pressure piping systems, pipeline and their related appurtenances
- Perform Audits of Pressure Equipment Integrity Assessment programs thus ensuring due diligence is exercised to protect the safety of the public and the environment
- Hands on inspection activities of boilers, vessels, piping

From 2006-2011

Company: **ACUREN GROUP**

Position Held: Integrity Specialist – Pressure Equipment
And Structural Steel

Brief description of Responsibilities: *Integrity Specialist – Structural Steel*

- Project Consultant for Encana (The Bow) Structural Steel 60 storey Office Tower project. Responsible for the entire mandate on all aspects of developing, planning, documenting and reviewing the Structural Steel Inspection requirements.
- Leadership, Coordination, direction and planning of Inspectors and Technician activities covering Fabrication Plants across Canada, China and the USA.
- Review of Project Specifications and drawings in conjunction with applicable Codes and Standard
- Auditing of Contractors involved in the production of structural steel products
- Review and approval structural steel project submittals
- Responsible for achieving Canadian Welding Bureau certification for Acuren Inc. Calgary Centre

From 2005 to 2006

Company: JOHNSON CONTROLS LP AT YYC

Position Held: Site Operations Manager/Chief Power Engineer

Brief description of Responsibilities:

- Demonstrated ability in leading a team of 15 employees including all aspects of human resource management
- Overall responsibility for Power Plant, HVAC operations, inspections, repairs, management, maintenance, safety concerns, budgets and Contractor duties
- Due diligence review for acceptance of emergency generator system project

From 1993 to 2005

Company: ROYAL & SUN ALLIANCE INSURANCE

Position Held: Consultant, Risk Management

Brief description of Responsibilities:

- Responsible to carry out Risk Assessments and site/equipment surveys to ensure boiler, pressure equipment, pipeline, electrical equipment and rotating equipment is constructed, operated, maintained, and repaired according to Jurisdictional and related Codes for compliance
- Issue recommendations to prevent boiler, pressure vessel, oil, gas, electrical and rotating equipment losses
- Issue assessment reports to Underwriters
- Perform claims investigations for direct damage, business interruption and consequential insurance product coverage
- Ensure performance of root-cause analysis of failures and offer recommendations to prevent recurrences on pressure equipment and pipelines
- Performed visual in-service inspection on HVAC systems, boilers, fired/unfired pressure vessels, process vessels, rotating and electrical equipment. Jurisdictional, ASME, API, National Board Code compliance for inspections and repairs

From 1987 to 1993

Company: **ATCO POWER LTD**

Position Held: Operator (Power Engineer) and Inspector

Brief description of Responsibilities:

- Performed commissioning, inspection & operation of two 400 MW, coal-fired boiler-turbine units, including acting team leader/resource person for Operators on shift
- Inspection of Boiler/Pressure Vessels/Rotating equipment on several ATCO Power Ltd coal-fired electrical generation site
- Coordination of maintenance/shutdown activities on plant equipment
- Development of an Operator training competency system
- Troubleshooting and resolution of Operational issues