

## AMANDA SISTILLI, P.Eng.

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### EDUCATION AND TRAINING

- B.A.Sc. ChemE - University of Toronto, 2011
- Human Error Prevention (Process Improvement Institute (PII) 2018)
- Enterprise Risk Management Certificate (U of T SCS 2017 – 2018: 5 courses)
- HAZOP Studies and other PHA Techniques for Process Safety and Risk Management CH157 (AIChE 2016)
- Process Safety Bootcamp CH900 (CCPS 2015)
- Incident Investigation and Root Cause Analysis Leadership (PII 2015)
- Layers of Protection Analysis (PII 2015)

### PROFESSIONAL EXPERIENCE

#### M.Sc. Candidate, University of Alberta (Jan. 2019 - present)

- I am currently developing the scope for a project that will explore how PSM is being integrated with other management systems in organizations across Canada. This project is meant to identify best practices, areas for improvement and opportunities for development related to PSM and Integrated Management Systems. My goal is to aid in building a stronger business case for Process Safety while identifying the best ways to streamline PSM adoption within an organization.

#### Sr. Risk Engineer, Enbridge Gas Inc. (Oct. 2019 - present)

- Develop policy and processes used to implement internal risk management strategies
- Review risk assessment work from other risk engineers
- Conduct qualitative and quantitative risk assessments for internal Enbridge projects
- Coordinate risk assessment activities with risk team and act as point of contact for stakeholders in the organization for risk assessment initiatives

#### Process Safety Engineer, ERCO Worldwide (Aug. 2017 – Sept. 2019)

- Process Safety corporate representative for newly acquired ClO<sub>2</sub> generator business, International Dioxide (IDI):
  - Guide IDI team in PSM workflow for commercial projects and collaborate with the IDI team and corporate PSM group to customize PSM workflows to the IDI business.
  - Facilitate HAZOP and What-If studies for new and existing commercial generator designs.
- Guide co-op students through Electrical Area Classification documentation development for ERCO manufacturing sites.
- Conduct HAZOPs and LOPAs for capital projects at ERCO sodium chlorate and chlorine facilities.
- Participate in development of ALARP methodology to be applied to current and future hazard study recommendations.
- Developed and implemented a risk-based planning and prioritization process for open PSM actions with the goal of better integration of PSM initiatives with other business priorities.
- Develop and update corporate procedures for PSM topics.

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- Internal auditor for PSM audits at ERCO manufacturing sites. The audit scopes measure compliance against OSHA 1910.119, Responsible Care and internal corporate standards.
- Maintain responsibilities held under Process Safety Specialist role.

#### Process Safety Specialist, ERCO Worldwide (Sept. 2014 - Aug. 2017)

- Provided PSM implementation support to the Grande Prairie, Alberta; Buckingham, Quebec; and Valdosta, Georgia sodium chlorate plants as part of ERCO Responsible Care commitments.
- Facilitated HAZOP Studies and What-If Analysis studies for 3 sites for revalidations and MOCs.
- Created an Enterprise Risk Management survey for plants in order to obtain a holistic understanding of key business risks in order to develop an implementation plan to address them.
- Coordinated major hazards risk assessment completion for all ERCO sites with an external consultant.
- Completed dispersion modelling for hazardous scenarios and compared site risks to MIACC Land Use planning guideline in order to prioritize capital risk reduction projects for each site.
- Participated in Pre-Start-Up Safety Reviews (PSSRs) for new installations at ERCO sites.
- Acted as PSM representative on ERCO Safety Committee.
- Participated in incident investigations for process safety incidents.

#### Process EIT, ERCO Worldwide (June 2011 - Aug. 2014)

Completed a 3-year Rotational EIT Program where I developed a strong appreciation for practical process safety applications in a plant environment:

##### Year 3: Process EIT, ERCO Chlorine Dioxide and Sodium Chlorite Plant, Thunder Bay, Ontario

- Facilitated What-If analysis studies for plant MOCs.
- Prepared the specification and technical quote comparison for replacement of the site's Chlorine Dioxide Absorption Tower.
- Prepared technical and budgetary engineering proposals for numerous plant MOCs.

##### Year 2: Process EIT, ERCO Sodium Chlorate Plant, Grande Prairie, Alberta

- Acted as the project manager for the purchase and installation of a replacement cooling tower
- Completed technical design work on plant MOCs.
- Managed the site MOC system and PHA action system:
  - Followed up on MOC progress and PHA recommendations with the plant management team.
  - Trained site employees and prepared the site procedure for the new OSys KMS MOC system.
- Provided technical mentorship to plant co-op students.

##### Year 1: Process EIT, ERCO Head Office, Toronto, Ontario

- Completed a comparative technical and budgetary study for a bromine removal system as part of a large capital expansion project.

#### VOLUNTEER EXPERIENCE

##### CSCHE PSM Division Member (Feb. 2016 - present)

- Elected into Secretary Role in January 2019 for a 2-year term.

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- Lead the development of awareness presentations for CAN/CSA Z-767: Process Safety Management with the goal of obtaining industry and regulator adoption of the standard.
- Guest lecturer for CHE561 Risk Based Safety Management and 4th year ethics course: CHE403. Professional Practice, University of Toronto, Faculty of Chemical Engineering and Applied Chemistry.
- Workshop presenter at the Canadian Chemical Engineering Conference Student Workshop: Exploring the World of Process Safety Management from 2016 - 2018.

Team Co-Coach and Founder, The Dragonators Dragon Boat Team (July 2015 - present)

- Co-coach an intermediate dragon boat team, comprised of 20 paddlers, from May – September.