

Expertise and Achievements

Oil and Gas Industry – Global

OEMS/OIMS/PSM	<p>The following are achievement highlights in Management Systems (OEMS/OIMS/PSM):</p> <ul style="list-style-type: none">• Upgraded and implemented the HSE MS for Emirates National Oil Company and Dragon Oin - Dubai• Upgraded and implemented OEMS across Husky Energy Downstream Operations• Developed and implemented OEMS across all HollyFrontier Sites• Participated in multiple Project, PSM and Operations Management Systems (OMS) Audits across the global BP enterprise – Led to strategic changes in processes after analyzing findings• Led OEMS / PSM Elements implementation across the Global Suncor Enterprise and HollyFrontier Corporation• Performed baseline assessment and prioritization of gaps in various Business Units OEMS / PSM Element rollout across Suncor Energy• Developed and activated OEMS (including PSM) Continuous Improvement Networks across Suncor and HollyFrontier Corporation• Developed the Major Projects EH&S Manuals that aligns with OEMS / PSM requirements for Suncor, Husky Energy, ENOC and BAPCO
EH&S	<p>The following are achievement highlights in EH&S:</p> <ul style="list-style-type: none">• Led EH&S management, emergency response and business continuity across the global Petro-Canada enterprise• Managed EH&S across multiple projects and across various stages of construction, commissioning and operations with zero major incidents or impact to the environment• Developed / Reviewed EH&S Plans and Management Systems for multiple large contracting organizations
Risk Management	<p>The following are achievement highlights in Risk Management:</p> <ul style="list-style-type: none">• Performed Enterprise and Operations Risk Assessment across multiple operating assets and business units across multiple energy sectors – Upstream, Midstream and Downstream• Conducted Process Hazards Assessment (PHA), developed, and stewarded the risk mitigation plans for minimizing plant Impact and equipment failure during commissioning, start up and integration of Cogeneration unit into operating SAGD facilities• Facilitated PHAs on MOCs associated with multiple change management operations, asset and people situations• Worked with AltaGas and HollyFrontier Corporation to upgrade its Risk Matrix

Contractor Safety Management

The following are achievement highlights in Contractor Safety Management:

- Led evaluation process, selection and supported implementation of an enterprise wide Contractor Prequalification Service Provider for Suncor
 - Led the change management process for rolling out new prequalification service provider across the organization and contractor community
 - Built procedure and supporting tools for sustainable Contractor Safety Management in Global Suncor, Husky Energy, Emirates National Oil Company (ENOC) and Bahrain Petroleum Company (BAPCO)
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Project Management

The following are achievement highlights in Project Management:

- Coordinated the safe and complete commissioning and start up of the 35Kbpd, Suncor MacKay River SAGD Heavy Oil Production Operations
 - Developed and implemented the the joint commission and startup plan for integrating 165MW / 720M3/Hr steam production TransCanada Energy Cogeneration unit with MacKay River 30Kbpd Seam Assisted Gravity Drainage (SAGD) unit
 - Coordinated contractual BFW quality dispute resolution between Petro-Canada and TransCanada Energy at the MacKay River facility
 - Developed and administered Operations, PSM and EH&S training plan for operations and maintenance personnel associated with Cogen and SAGD operations
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Published Books

The following are books authored /co-authored:

Publication Year	Focus	Title
2020	PSM	Process Safety Management and Human Factors
2018	OEMS	Implementing OEMS – Getting it right the First Time (<i>Work in Progress to be Published in 2018</i>)
2015	OEMS	7 Fundamentals of an Operationally Excellent Management System – Publisher – Taylor and Francis, Jan. 2015
2013	PSM	Process Safety Management: Leveraging Networks and Communities of Practice for Continuous Improvements – Publisher – Taylor and Francis
2012	EH&S	Safety Management: A Comprehensive Approach to Developing a Sustainable System – Publisher – Taylor and Francis
2010	Project Management	Project Execution – A Practical Approach to Industrial and Commercial Project Management – Publisher – Taylor and Francis
2008	Leadership	Conducted study on turnover among Power Engineers in Fort McMurray Alberta and its relationship with leadership behaviors (EBSCOHost Publications)
Link to books		Books Authored By Dr. Lutchman

Software Development

The following provides an overview of software development:

- Developed an Organized Shared Learning in EH&S Platform for sharing learning internally, within the industry and across industries
 - Software used by AltaGas, Suncor Energy, ACM, Centrica, Husky Energy (testing)
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- Evolved software to support implementation and sustainment of Management Systems – OEMS / OIMS / PSM / EH&S

Awards Received

The following are awards received:

Year	Award
2014	NIHERST Award for Excellence in Science and Technology
2013	2013 Recipient of the Arthur Lok Jack School of Business (Trinidad and Tobago) for contributions to sustainable development to the Caribbean - PSM
2011	Recipient of the McMaster University Arch Award for unique and exceptional accomplishments and contributions to society and Canadian development

Conferences and Workshops

Presented papers and led workshops in in EH&S, PSM and OEMS in the following regions:

- Middle East: Dubai, Oman, Bahrain
- North America – USA & Canada
- Asia – Malaysia, India
- Trinidad and Tobago

Sugar Industry of Trinidad and Tobago

Import Substitution

Led the import substitution strategy and project development for replacing sugar cane production with an integrated livestock production and management system.

Employment History

2013 - Present

The following are my current employment activities:

Title	Clients	Focus
Management Systems Consultant - OEMS / PSM / EH&S	HollyFrontier	<ul style="list-style-type: none"> • In the process of developing and implementing OEMS across the organization – 5 Refineries / 2 Lubricant Plants / Pipeline and Terminal Operations
	AltaGas	<ul style="list-style-type: none"> • In the process of rolling out the Event (Incident) Management Process for the organization (Midstream and Power Generation)
	ENOC / Dragon Oil	<ul style="list-style-type: none"> • In the process of building and executing the corporations Contractor Safety Management Process and Manual for Managing EH&S in Major Projects Execution
	T&TEC	<ul style="list-style-type: none"> • Conducted workshops on EH&S Management across all sites (Power Generation and Distribution)
	BAPCO	<ul style="list-style-type: none"> • Updated the Corporation’s Contractor Safety Management Process
	Suncor Energy Inc.	<ul style="list-style-type: none"> • Developed the manual for managing EH&S in Major and Sustaining Projects that meets the requirements of the organization’s OEMS Elements

	Husky Energy	<ul style="list-style-type: none"> In the process of developing OIMS for both the Downstream business (7 Plants) and the Canadian Products Marketing (CPM) Business Units Developed the manual for managing EH&S in Major Projects that meets the requirements of the organization's OIMS Elements Developed the Procedure for Contractor Safety Management in Major Projects
	GAIL India	<ul style="list-style-type: none"> Reorganizing the Corporate Management System into an Operational Excellence MS
	Management System Software Safety Erudite Inc.	<ul style="list-style-type: none"> Provide leadership and SME input to market development of software for supporting sustained performance of OEMS / OIMS / PSM / EH&S
2009-Present		<ul style="list-style-type: none"> Serves as CEO of Safety Erudite Inc. providing consultancy services to the global energy industry in the areas of OEMS / OIMS / PSM / EH&S and Risk Management Led the development of software designed to support the implement and sustainment of OEMS / PSM and EH&S performance in organizations Serves as the external examiner for the Arthur Lok Jack School of Business for MBA Courses – The University of the West Indies
2012-2013		<ul style="list-style-type: none"> Operations Management System (OMS) and PSM auditor for BP Global Projects in the Safety and Operational Risk (S&OR) Team
2009-2012		<ul style="list-style-type: none"> Served as the Corporate / Business Unit Lead in the rollout of OEMS – Suncor Energy Inc. Served as the Corporate Specialist in the rollout of Contractor Safety Management – Suncor Energy Inc.
2008-2009		<ul style="list-style-type: none"> Served as the Corporate Leader for Loss Management and Emergency Management across Global Petro-Canada assets
2005-2008		<ul style="list-style-type: none"> Served as a Senior Economist Business Planning – Oil Sands Petro-Canada Developed and updated the Capital budget of >\$25Bn
2001-2005		<ul style="list-style-type: none"> Led the commissioning and start-up of Petro-Canada 30Kbpd SAGD heavy oil plant Converted wells from steam circulation mode to production mode Supported well workerovers to include sub-mersible pumps for higher production rates Managed artificial gas lift processes for well production maximization. Managed well pad production and oil separation of the SAGD Operations at Petro-Canada Mackay River SAGD operations Integrated a 175MW Cogen into the live SAGD Operations
1996-2001		<ul style="list-style-type: none"> Master engineer – Refinery Operations and Utilities – Petro-Canada
1990-1995		<ul style="list-style-type: none"> Supported and led the partial diversification of the Sugar industry of Trinidad and Tobago into an integrated Livestock Production system
1982-1990		<ul style="list-style-type: none"> Plant Operator / Steam Engineer - Trinidad and Tobago Petroleum Company Limited, Trinidad Indies

Education

Academic and Technical Training

The following is a summary of academic performance

Focus	Year	Certification / Designation	
EH&S	2010	CSP	Certified Safety Professional
	2009	CRSP	Canadian Registered Safety Professional
Business Management	2008	Doctoral Degree DBA	Doctor of Business Administration (Organizational Behavior and Leadership) - University of Phoenix USA
	2000	MBA	Master of Business Administration (Dean's Honor List) - McMaster University, Hamilton, ON, (Deans Honor List, 2000.) Canada
Technical Operations	1997	1 st Class PE	First Class Power Engineer – Canada
Agriculture Sciences	1986	BSc / MSc	The University of the West Indies. (MSc Thesis in Agriculture Economics incomplete)

Skills and Interests

Skills

The following is a list of non-academic skills:

- Well developed leadership, adult education, training and presentation skills
- Skilled in leading and managing change
- Proficient in Excel, Word, Power Point, Microsoft Project and other software packages
- Excellent analytical, critical thinking, planning, coaching and team building skills
- Completed the self-study DNV Practical Loss Control Leadership Course.
- Strong awareness of Cultural Intelligence as a business driver

Interest and Community Involvement

The following is a list of my interests and community involvement:

- A strong commitment to reducing work related incidents, globally
- Served as the Co-Chair of the Parent Council for HDC Middle school, Calgary
- Performed the duties of Treasurer for the Hindu Society Of Fort McMurray
- Served as Vice Chair of the School Advisory Council for Westwood Public School, Hamilton, Ontario
- A deep interest in community development activities

References Available Upon Request
