

Judith Sicairos

PROFESSIONAL HISTORY:

Risk Management Professionals, Inc.;
Mission Viejo, California;
Project Engineer; 2007-Present

EDUCATION:

Mechanical Engineering, Bachelor of Science
California State University, Fullerton

CERTIFICATION:

- *California Engineer-In-Training Certification*
- *Incident Command System IS-100*
- *Incident Command System IS-200*
- *National Incident Management System IS-700*
- *National Response Plan IS-800*

PROFESSIONAL AFFILIATIONS:

- *Refrigerating Engineers and Technicians Association (RETA)*

LANGUAGE SKILLS:

- *English: Fluent*
- *Spanish: Conversational*

TECHNICAL SKILLS:

- *Auto Cad*
- *SolidWorks*

Ms. Judith Sicairos provides project management and high level technical support to Project Teams involved in various engineering activities, including risk and process safety assessments for the following industries:



- Petroleum: Production and refining
- Offshore platform
- Chemical
- Water treatment
- Wastewater treatment
- Chlorination systems
- Anhydrous ammonia systems

Ms. Sicairos is experienced in Process Hazard Analysis (PHA) methodologies, including Hazard and Operability (HAZOP) studies performed in conjunction with Layer of Protection Analysis (LOPA), leading various studies for a variety of processes. Ms. Sicairos has been involved in the development of California Accidental Release Programs (CalARP), Environmental Protection Agency (EPA) Risk Management Plans (RMP), and OSHA Process Safety Management (PSM) for hazardous chemicals facilities. Ms. Sicairos is experienced in performing Compliance Audits for the above mentioned

safety programs. Ms. Sicairos is familiar with and has experience with the implementation of the Safety and Environmental Management Program (SEMP), used for integrating and managing offshore operations. Ms. Sicairos has experience in grant writing, where she proactively pursues innovative grant opportunities that closely reflect the client's needs. Ms. Sicairos is capable of establishing and maintaining schedules, understands the complexity of project coordination, and can successfully monitor project progress and budgets.

PROJECT EXPERIENCE:

Ms. Sicairos has experience in the following areas:

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- Process Hazard Analysis (PHA) Techniques, including Hazard and Operability (HazOp), What-If, Checklists, Layer of Protection Analysis (LOPA) and other methodologies
- Risk Communication
- Development and implementation of process safety programs, including CalARP, RMP, PSM.
- RMP and PSM Program Compliance Audits
- Mechanical Integrity (MI) Programs and Training
- Project Management
- Pre-Disaster Mitigation (PDM) Grant Programs
- Offshore Platform support and SEMP implementation
- Management of Change implementation, training and support

Process Hazard Analysis Studies – Ms. Sicairos has led and supported the development of Process Hazard Analysis. Her mechanical engineering background coupled with her exposure to various processes makes her an excellent asset to the Process Hazard Analysis team. Ms. Sicairos is proficient in drafting and design as well as control systems, skills which fortify her comprehension of complex processes and allow her to identify possible causes and potential consequences associated with deviating from expected design and operation. Her involvement with various hazard analyses methods, including HazOp and What-If Checklists, provides her with the tools necessary to develop lucid, realistic risk assessments. In addition, Ms. Sicairos has experience with SIL Ranking in order to determine the adequacy of SIS features reliability, and is also experienced in LOPA methodology and implementation. Ms. Sicairos uses her combination of high level technical background and excellent communication skills to efficiently work with a team. Following is a partial list of Ms. Sicairos' HazOp and LOPA experience:

- Petroleum (production, refining, and offshore platform)
 - Coker Unit
 - Sour Water Stripping Unit
 - Acid Gas Unit
 - Sulfur Recovery Unit
 - LPG Recovery and Storage System
 - Amine Regeneration System
 - Naphtha Hydrotreater Unit
 - Naphtha Splitter Unit

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- Hydrogen Distribution
- Flare and Blowdown System
- Power Generation
- Steam Processing and Distribution System
- Fuel Gas System
- Instrument Air, Plant Air, Nitrogen Generation System
- Potable, Utility and Fire Water System
- Chemical Storage, Unloading, Transfer Units
- Wellhead Production
- Anhydrous Ammonia Systems
 - Refrigeration Systems
 - Fertilizer Manufacturing Systems
- Chlorination Systems
 - Water Treatment Facilities
 - Wastewater Treatment Facilities

CalARP/RMP/PSM Program Development and Revalidation – Ms. Sicairos has assisted in the development of California Accidental Release Prevention (CalARP) Programs, Risk Management Plans (RMP), and Process Safety Management (PSM) Programs for a diverse spectrum of facilities. As part of these efforts, she has conducted P&ID reviews and updates, Offsite Consequence Analysis (OCA), external events analysis, dispersion modeling, recommendations review, program development, US EPA and Administering Agency submittals, and review.

Compliance Audits – Mr. Sicairos has completed CalARP/RMP/PSM Compliance Audits, which requires knowledge of the regulated covered process and a review of the Prevention Program documentation and records in order to identify program deficiencies and aid in a management plan to correct deficiencies.

SEMP implementation – Mr. Sicairos has worked closely with an offshore production facility to assist with a safe plant startup, via SEMP implementation, in accordance with API 14C, API 14J, and API 75. She led teams in the Management of Change development, provided support to ensure adequacy of safety systems, and conducted Process Hazard Analysis Studies in accordance with API standards.

CAD development – Ms. Sicairos has developed and updated P&ID's and floor plans for various facilities.