

Stephanie M. Smith, PE

PROFESSIONAL HISTORY:

Risk Management Professionals, Inc., Irvine, California, Senior Engineer, 2016-Present.

Risk Management Professionals, Inc., Irvine, California, Project Engineer, 2013-2016.

AMEC Environment and Infrastructure, Inc., Irvine, California, Staff Engineer, 2008-2013.

Geomatrix Consultants, Inc., Newport Beach, California, Staff Engineer, 2006-2008.

Risk Management Professionals, Inc., Mission Viejo, California, Engineering Technical Specialist, 1995-2006.

EDUCATION:

Environmental Engineering, Master of Science, University of Southern California, Los Angeles, California.

Environmental Engineering, Bachelor of Science, California Polytechnic State University, San Luis Obispo, California.

CERTIFICATIONS:

California Professional Engineer – Civil.

TRAINING:

HAZWOPER; 2021.

First Aid, CPR, and AED; 2021.

ASSOCIATIONS:

Refrigerating Engineers and Technicians Association (RETA), corporate member.

IIAR, corporate member.

Ms. Stephanie Smith, PE graduated from California Polytechnic State University with a Bachelor of Science



degree in Environmental Engineering and the University of Southern California with a Master of Science degree in Environmental Engineering. Ms. Smith specializes in process safety engineering and civil/environmental engineering. She is currently licensed in the State of California as a Civil Engineer.

Her process safety experience includes performing updates and providing guidance on the California Accidental Release Prevention (CalARP) Program, Nevada Division of Environmental Protection (NDEP) Chemical Accident Prevention Program (CAPP), and the United States Environmental Protection Agency's (USEPA's) Risk Management Plan (RMP) Program; performing updates and providing guidance on the Occupational Safety and Health Administration's (OSHA's) Process Safety Management (PSM) Program; knowledge and providing services in other safety programs (i.e., confined space, fall protection, and Hazardous Waste Operations and Emergency Response [HAZWOPER]); providing training on CalARP, RMP, and/or PSM Programs; conducting Triennial Compliance Audits; and conducting Process Hazard Analyses (PHAs)/Hazard Reviews (HRs).

Her civil and environmental engineering experience includes Spill Prevention, Control and Countermeasure (SPCC) Plans and Urban Water Management Plans (UWMPs). Her general technical expertise includes

COMMITTEE INVOLVEMENT:

*RETA Los Angeles Chapter Board
Member; Since 2015.*

*RETA Los Angeles Chapter
President, 2019 – Current.*

*RETA Certification Committee
Member, 2019 – Current.*

*IIAR National Marketing Committee
Member; Since 2017.*

*IIAR National Marketing Committee,
Subcommittee Lead for the State
of the Industry Report, 2017 -
Current.*

*IIAR National Marketing Committee,
Vice Chair, 2019 – 2022.*

*IIAR National Marketing Committee,
Chair, 2022 – Current.*

**TECHNICAL PAPERS AND
PRESENTATIONS:**

*Presentations at the 2016, 2018, and
2019, 2021 RETA National
Conferences.*

*Presentations at the 2018, 2019, and
2021 IIAR National Conferences.*

*Ongoing webinars, TechTips,
ProcessThat, and workshop
presentations for Risk
Management Professionals'
education series.*

many remote PHAs/HRs, Compliance Audits, and general services offered by Risk Management Professionals.

Ms. Smith is an active member of the Refrigerating Engineers and Technicians Association (RETA) through Risk Management Professionals' corporate membership and an active, member of IIAR. She has also served on the RETA Los Angeles Chapter Board since 2015 and is currently servicing as President of the Chapter for 2020, 2021, and 2022. She is also serving the IIAR National Marketing Committee as the Subcommittee Lead for the State of the Industry Report since 2017 and recently started serving as the Chair of the IIAR Marketing Committee beginning in 2022. Ms. Smith formerly served as the Vice Chair of the IIAR Marketing Committee from 2019 through 2021.

In addition to her involvement in the above-listed non-profit organizations, she has presented at both organizations' National Conferences, and she is a regular presenter for Risk Management Professionals' educational outreach programs (webinar series, ProcessThat, and TechTips) and has presented at several workshops sponsored by Risk Management

Professionals on a variety of topics.

PROJECT EXPERIENCE**CalARP/CAPP/RMP/PSM Programs**

Ms. Smith's efforts in CalARP/CAPP/RMP/PSM Programs extend to a broad range of industries, including ammonia refrigeration, seafood production, produce/agriculture, pharmaceuticals, dairy production, cogeneration/energy facilities, foam- insulated metal panels manufacturing, metals finishing, and public agencies. Her CalARP/CAPP/RMP/PSM program experience extends from Hazard Assessments/Off-Site Consequence Analyses (OCAs) conducted at all program levels to

complete program developments and managing of projects. A selection of more recent and/or more robust projects are detailed below.

- *High-Performance Composite Manufacturer, El Monte, CA* – Provided supervisory support for the development of a new regulatory program and facilitated the PHA. Assistance was provided to navigate the regulatory requirements and provide support during audits and regulatory meetings.
- *Cogeneration Facilities, Various Locations, CA* – Provided supervisory services for the development of CalARP/RMP/PSM Programs for multiple facilities. Scope of work included engineering supervision of entire program development, review of developed documentation, project management, and facilitation of the HRs required for newly-developed facilities.
- *Metals Finishing/Electroplating Facilities, Various Locations, CA* – Provided services related to the CalARP/RMP/PSM Programs, including Hazard Assessments/OCAs and regulatory submittals, to various facilities in California. Scope of work included dispersion modeling, development of documentation, review of documentation, and project management.
- *Dairy Production Facility, City of Industry, CA* – Responsible for managing project tasks for the development of a new ammonia refrigeration CalARP/RMP/PSM Program Level 2 Compliance Workbook for the facility while under construction.
- *Pharmaceutical Company, Torrance, CA* – Responsible for managing project tasks for the development of a new CalARP/RMP/PSM Program Level 2 Compliance Workbook for the facility, which utilizes piperidine and hydrofluoric acid. Ongoing scopes of work for Triennial Compliance Audits, Hazard Reviews (HRs), and non-regulated safety analyses have also been completed at this facility.
- *Produce Packaging/Storage Companies, Various Locations, CA* – Responsible for managing project tasks for the development and revisions to CalARP/RMP/PSM Program Level 2 and Level 3 Compliance Workbooks. Providing general consulting services for the general safety and compliance needs for the facilities and updating program documentation upon request.
- *Sanitation Districts, Whittier, CA* – Responsible for managing the five-year CalARP/RMP/PSM update for the two facilities (Program 2 and Program 3 processes) owned by the sanitary districts that utilize chlorine, sulfur dioxide, and aqueous ammonia.

Efforts included coordinating and managing entire project, dispersion modeling and OCA for reporting, and general updates to the entire program.

- *Generating Station, Hermiston, OR* – Responsible for completing the five-year CalARP/RMP/PSM update for a Program 2 facility utilizing aqueous ammonia. Efforts included dispersion modeling for the OCA, submission of documentation to the USEPA, and management of any efforts related to the projects.
- *Ice Cream Manufacturing Plants, Various Locations, CA* – Responsible for assessing client's process safety needs and providing guidance; conducting 5-Year Updates and CalARP/RMP/PSM Program developments, including:
 - submittals, for CalARP/RMP documentation;
 - updating and developing CalARP/RMP/PSM documentation per regulations;
 - assisting with Triennial Compliance Audits;
 - providing training on CalARP/RMP/PSM programs as pertinent to the facility; and
 - providing support for high pressure receiver replacement.
- *Fertilizer Company, Various Locations, CA* – Responsible for updating documentation for several Program 1 and Program 3 facilities throughout California and Washington (including Hazard Assessment updates, CalARP/RMP submittals, and various program support). The chemicals utilized at the facilities included anhydrous and aqueous ammonia.

Process Hazard Analyses (PHAs)/Hazard Reviews (HRs)

The following is a list of selected projects that Ms. Smith has facilitated or scribed in PHAs or HRs.

- *Foam-Insulated Metal Panel Manufacturing, Various Locations, USA* – Conducted PHAs for various facilities throughout the United States due to facility changes, which included a new process chemical and regulatory needs surrounding the change. In addition, provided additional services for assistance with the NDEP CAPP for one facility.
- *Pharmaceutical Company, Torrance, CA* – Responsible for managing project tasks and conducting a variety of PHAs for regulated and unregulated operations at the facility to address regulatory and general safety concerns at the facility for upgrades to operations and facility equipment.
- *Water Treatment Plants, Various Locations, CA* – Facilitated HRs for existing water treatment plants within a district utilizing HAZOP and What-If / Checklist methodology. The HRs were facilitated utilizing engineering scribes.

- *Wastewater Treatment Facility, San Jose / Santa Clara, CA* – Facilitated a PHA for a sludge digester gas design project and working with the design contractor to anticipate design areas where hazards needed to be addressed.
- *Cogeneration Facilities, Various Locations* – Facilitated PHAs for new and existing cogeneration facilities utilizing HAZOP and What-If / Checklist methodologies, mostly in California and Nevada.
- *Waste Heat Recovery Station, Jean, NV* – Facilitated a PHA for an existing waste heat recovery station utilizing HAZOP and What-If / Checklist methodology. The PHA was facilitated in conjunction with other work requested by the facility.
- *Ice Cream Manufacturing Plant, Oxnard, CA* – Facilitated HR for new ice cream production facility utilizing anhydrous ammonia for refrigeration. HR study utilized Hazard and Operability (HAZOP) and What-If/Checklist methodologies.
- *Sod Farming, Stockton, CA* – Facilitated PHA for an existing sod farming operation utilizing chlorine for water treatment on-site. PHA utilized the HAZOP and What-If/Checklist methodologies.
- *Fire Water System, Bakersfield, CA* – Facilitated PHA for an existing fire water system located at a refining facility. The PHA utilized the What-If / Checklist methodology to assess hazards with a non-operational fire water system in the event of an emergency.
- *Compressor Station Odorizer System, MI* – Participated in a PHA for a new odorizer system being designed and installed for a compressor station. The PHA utilized the HAZOP and What-If / Checklist methodologies to assess hazards within the new design.

Compliance Audits/Gap Analyses/Applicability Assessments

Ms. Smith has conducted many Compliance Audits, Gap Analyses, and Applicability Assessments for several different industries in various locations throughout the US, including agriculture, higher education facilities, public agencies, biofuels processing, pharmaceuticals, chemical manufacturing/blending, beverage manufacturing and bottling, ice manufacturing and cogeneration facilities since 2013. The duration of the projects have ranged from a few hours for a simpler facility to several days for more complex facilities and/or facilities with multiple processes.

Responsibilities have included performing Triennial Compliance Audits according to regulatory guidance, producing final reports and findings on the audits conducted, and managing project task teams and reviewing final reports. Gap Analyses and Applicability Assessments were

conducted in the same manner and with the same regulatory requirements as a Triennial Compliance Audit but tailored to find the needs of the individual facility.

Recognized and Generally Accepted Good Engineering Practices (RAGAGEP)

She has supervised and developed documentation to meet the Recognized and Generally Accepted Good Engineering Practices (RAGAGEP) requirements in the CalARP/RMP regulations for various facilities and to various degrees. Scope of work varies from basic documentation to prove RAGAGEP is followed and standards are met at the facility, to in-depth analysis on further compliance for the regulations.

Urban Water Management Plans (UWMPs)

Ms. Smith has assisted with UWMPs for public agencies, water districts and cities within Southern California for the 2015 and 2020 updates. Her primary responsibilities included general assistance and review with the programs and developing the Demand Management Measures (DMM), System Supplies, and Baselines and Targets sections for the plans. The next updates are scheduled for 2025.

Spill Prevention, Control, and Countermeasures (SPCC) Plan

Ms. Smith has updated several SPCC Plans for facilities within Southern California. Support included general updates and revising the plans to meet current regulations and conducting five-year review and updates with Tier I and Tier II facilities. The industries served include meat processing and cogeneration facilities.

General Safety Services

General safety services are provided for clients, as needed. The following is a list of projects in which Ms. Smith conducted and/or managed general services for the facility or client. A summary of the services is included below for pertinent projects. In general, Ms. Smith provides general environmental, health, and safety (EHS) services, regulatory compliance guidance, and general facility support to a wide range of industries and clients.

- *Oil Refining Company, Bakersfield, CA* – Provided support in developing a Fire Water System Manual for the operation, inspection, and maintenance of a fire water system on-site. Work scope included development of standard operating procedures and how to correct deviations.

- *Metals Finishing Facility, City of Industry, CA* – Provided general guidance to a metals finishing facility utilizing chlorine following a release and incident prompting further action for the facility to update their safety programs.
- *Water Treatment Plant, Benicia, CA* – Provided guidance and expertise in updating a Respiratory Protection Program utilizing self-contained breathing apparatus (SCBA) for protection against chlorine gas during routine maintenance.
- *Water and Wastewater Treatment Plants, Calxico, CA* – Provided services for updating the California Environmental Reporting System (CERS) records and addressing concerns from the local regulatory agency.
- *Lumber Retailer, Torrance, CA* – Assisted in the permit effort to construct a lumber retail facility in the vicinity of a refinery. Effort included a Flare Proximity Study for the safety of the new retailer and their operations. An emergency procedure was also developed for a safety mechanism for the property in the event of a flare event.

Training

Ms. Smith has provided various levels of training to several facilities in different industries, including ammonia refrigeration, agriculture, public agencies, biofuels processing, chemical manufacturing/blending, cogeneration, and pharmaceuticals. Training ranges from a basic understanding of the facility's CalARP/CAPP/RMP/PSM program to more details understanding of procedures regarding the different program elements. Ms. Smith has provided trainings successfully both in-person and over a web-based software platform.

Emergency Response Plan (ERP) / Emergency Operations Plan (EOP) / Hazard Mitigation Plan (HMP) / Debris Management Plan (DMP) Services

Ms. Smith has managed teams in updating EOPs, HMPs, and DMPs for local agencies in Southern California. The scope of work included updating documentation and implementation to meet new standards, managing team efforts in updating the plans, and providing status updates and project management services to the agency.

Injury and Illness Prevention Programs (IIPPs)

Ms. Smith is cognizant in the requirements and regulations regarding Injury and Illness Prevention Programs (IIPPs) from her background in environmental engineering, certification in Hazardous Waste Operations and Emergency Response (HAZWOPER), and development of various IIPPs for clients. She also serves as the Safety Officer for Risk Management Professionals, managing technical training for all individuals, arranging First-Aid / CPR training bi-annually, is responsible

for injury reporting (if necessary), and general maintenance of the company's IIPP (including safety inspections and updates).

CLIENT LIST

The following is a partial list of clients that Ms. Smith has managed and/or provided engineering support.

Municipalities and Water Treatment

- Agua Mansa Power Plant
- Camarillo Sanitary Districts
- Castaic Lake Water Agency
- Central Coast Water Authority
- City of Benicia
- City of Calexico
- City of Cerritos
- City of Compton
- City of Downey
- City of El Segundo
- City of Fontana
- City of Garden Grove
- City of La Habra
- City of Paramount
- City of Redlands
- City of Sacramento
- City of Tustin
- County Sanitation Districts of Los Angeles County (multiple facilities)
- East Bay Municipal Utilities District
- Eastern Municipal Water District
- Las Virgenes Municipal Water District (multiple facilities)
- Liberty Utilities
- Metropolitan Water District
- Rainbow Municipal Water District
- Ventura Regional Water District
- Zone 7 Water Agency

Manufacturing/Chemical Supply

- Agri-Chemical and Supply
- All Metals Processing
- Arconic Fastening Systems / Alcoa Fastening Systems
- CALAMCO
- Custom Alloy Sales
- Ducommun
- Electronic Precision Specialties
- Elite Comfort Solutions
- Ganahl Lumber
- GrowMore
- NCI Group, Inc. (multiple facilities)
- PCC Rollmet
- Pregis
- Quaker City Plating
- Rinchem Company
- Rolls Royce High Temperature Composites, Inc.
- Supreme Plating
- The Gill Corporation

- TowerJazz Semiconductor

- TST

Ammonia Refrigeration Facilities

- Artesia Ice, LLC
- Aryzta
- Bornstein Seafoods (multiple facilities)
- Boskovich Farms, LLC (multiple facilities)
- Bubble Bee Foods
- City Brewing
- Cold Star Ice
- Deardorff Family Farms
- DM Camp & Sons
- Dr Pepper Snapple Group (multiple facilities)
- Foster Farms
- Farmer John/Clougherty Packaging, LLC
- Fresh Grill Foods, LLC & Brown Bag
- Gene Wheeler Farms
- Grimmway Farms (multiple facilities)
- Harris Ranch
- Heritage Distributing Company
- Kellogg – Eggo
- LA Bottleworks
- Manning Beef, LLC
- McConnell's Fine Ice Creams
- Milk Specialties Global
- Ninth Avenue Foods
- NorCal Beverage
- Northgate Markets
- OK Produce
- Orchard Partners
- Partners Alliance Cold Storage
- Pepsi Bottling Group (multiple facilities)
- Ruiz Food Products
- Rite Aid Corporation (Thrifty Ice Cream)
- Rockview Farms
- Sun Maid
- Seaboard Produce
- Smithfield
- Smithway Associates, Inc.
- SVP Winery
- Vie de France

Energy

- Alliance Energy
- Avangrid Renewables
- California Institute of Technology (CalTech)
- Colver Power
- Consumers Energy
- DTE Energy
- GreenLeaf Power (multiple facilities)
- Griffith Energy
- Hermiston Generating Plant
- Imperial Irrigation District
- LINN Energy (multiple facilities)
- National Carbon Technologies
- Northern California Power Agency

- NV Energy (multiple facilities)
- NRG Energy, Inc. (multiple facilities)
- Onward Energy (multiple facilities)
- Perennial Power Holdings, Inc.
- Southwest Generation (multiple facilities)
- Wellhead Power (multiple facilities)
- Windsor Energy Group LLC

Agriculture

- Colusa County Farm Supply
- County Line Ag
- Delta Farms
- Grimmway Farms
- North Valley Ag Services
- Ventura Farms
- Wilbur Ellis Company (multiple facilities)

Pharmaceutical/Medical Companies

- Bachem Americas, Inc.
- CSL Behring
- Edwards LifeSciences
- Novartis Pharmaceuticals

Oil and Gas

- Berry Petroleum (multiple facilities)
- Chevron
- Fluor
- Kern Oil
- North Star Biofuels, LLC

Other Companies

- Black & Veatch
- BlueScope Environmental
- IDE Americas
- Tippman Engineering