

SEDEM SURMELI

PROFESSIONAL HISTORY:

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

EDUCATION:

Bachelor of Science, Chemical Engineering,
University of California, Berkeley

CERTIFICATION:

- *Engineer-in-Training California Board Certified*
- *Incident Command System (ICS) IS-100 Certified*
- *Incident Command System (ICS) IS-200 Certified*
- *National Incident Management System (NIMS) IS-700 Certified*
- *National Response Plan (NRP) IS-800 Certified*

PROFESSIONAL AFFILIATIONS:

- *Refrigerating Engineers and Technicians Association (RETA)*
- *American Institute of Chemical Engineers (AIChE)*

Ms. Senem Surmeli has the experience, expertise and capabilities to provide strong project management, oversight and technical support to Risk



Management Professionals' Project Teams. She utilizes her strong analytical, problem-solving and facilitation skills to provide a high level support for all projects to ensure client satisfaction.

She is involved in a variety of projects including the fields of:

- petroleum (production, refining)
- chemical production facilities
- potable water treatment and distribution systems
- wastewater treatment and distribution systems
- chlorination systems
- anhydrous ammonia systems
- hazard mitigation
- emergency response capabilities assessment

Her chemical engineering background, coupled with her strong interest in analyzing processes to find potentially hazardous

operations to be eliminated or mitigated, makes Ms. Surmeli a valuable asset to Risk Management Professionals.

PROJECT EXPERIENCE:

Ms. Senem Surmeli has been involved in the following projects:

CalARP/RMP/PSM Program Development and Revalidation –

Ms. Surmeli has experience developing California Accidental Release Prevention (CalARP) Programs, Process Safety Management (PSM) and Risk Management Plans (RMP) for numerous facilities. As part of these efforts, Ms. Surmeli completed dispersion modeling calculations, P&ID reviews, Offsite-Consequence Analyses, Process Hazard Studies (PHA) and triennial Compliance Audits.

The detailed offsite-consequence analyses completed by Ms. Surmeli postulate a wide variety of release scenarios and include specific dispersion modeling and associated calculations. Specifically, Ms. Surmeli utilizes the modeling programs SLAB, ALOHA, RMP*Comp, and/or SCREEN3 in order to define the circle of

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concern for the specific chemical release or explosion. Ms. Surmeli is highly adept at utilizing site specific data to provide accurate modeling, including up-to-date weather, temperature, and terrain data and a customized approach to ensure the correct type of release is modeled. Additionally, she has experience addressing releases which incorporate mitigation features, including containment systems and scrubber/ventilation systems. Also, since the dispersion modeling is developed as part of a regulatory requirement, the calculations are scrutinized by the regulating agency (EPA and Local Fire Departments) and are subject to public review.

Below is a partial list of clients that Ms. Surmeli has provided CalARP/RMP/PSM program development and revalidation support to:

- Vita-Pakt Citrus Products Company
- Nor-Cal Beverages
- Seacatch Seafoods
- City of El Centro Wastewater Treatment Plant
- City of Los Angeles Department of Public Works
- Matheson Trigas
- Colver Power Project

Compliance Audits – Ms. Surmeli has completed CalARP/RMP/PSM Compliance Audits, which includes facility walkdowns and familiarization with the regulated covered process, reviewing Prevention Program documentation in order to identify deficiencies that would result in citations from the applicable regulatory agencies, developing a line item report that lists the specific deficiencies, and meeting with facility personnel in order to identify any other needs or services they may require. Ms. Surmeli has conducted RMP/PSM Compliance Audits for the following facilities:

- Wheelabrator Shasta
- Harbor Cogeneration
- City of Galt Wastewater Treatment Plant
- 7UP Bottling Company

Hazard and Operability Studies –

In addition to her CalARP/RMP/PSM experience, Ms. Senem Surmeli has participated in various HAZOP studies for processes ranging from large oil refineries to small scale refrigeration units. As a successful HAZOP facilitator, Ms. Surmeli maintained the HAZOP Study Team's focus while reviewing potential operational and process hazards. During these studies, she utilized several methodologies including HAZOP guideword, What-If, and Checklist evaluation depending on the clients' needs. She is also familiar with SIL/SIS analysis along

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with IEC 61511 standards, which covers the design and management requirements for the safety integrated systems. A partial list of Ms. Surmeli's HAZOP experience includes:

- Crude Distillation Units
- Vacuum Distillation Units
- Fluidized Coker
- Powder Wetting Systems
- Flare Vapor Recovery
- Water and Wastewater Treatment
- Ammonia Refrigeration Systems
- Steam and Condensate Systems
- Sour Water Stripper
- Butamer Unit
- Hydrotreater Unit
- Silane Loading
- Silane Refrigeration
- By-Products
- Belco Pre-Scrubber

Emergency Response Plan and Incident Response Field Guide Development – Ms. Surmeli's experience also includes Emergency Response Plan (ERP) Development and Updates. These plans include critical emergency response actions that address each scenario associated with security issues separately in terms of activation of a procedure, responsible persons and required tools. Ms. Surmeli has worked closely with Yorba Linda Water District in development of their Emergency Response Plans, and provided training support.

Hazardous Materials Inventories/Business Emergency Plans - Ms. Surmeli has supported various facilities in developing their Hazardous Material Inventories/Business Emergency Response Plans (HMI/BEP) Disclosures for their local Administering Agency or fire department. Ms. Surmeli worked closely with the clients to ensure successful completion of various HMI/BEP's.

Hazardous Materials Area Plans - Ms. Surmeli assisted facilities in completing their Hazardous Materials Area plans as part of their pre-emergency planning. As part of these efforts, Ms Surmeli worked closely with the clients to develop pre-emergency planning activities and emergency response roles in case of hazardous material releases.