

Kevin A. Cardoza

PROFESSIONAL HISTORY:

*Risk Management Professionals, Inc.
Irvine, California; Project
Engineer; September 2022-
Present*

EDUCATION:

*Bachelor of Science, Chemical
Engineering, University of
California, Riverside*

Mr. Kevin Cardoza graduated from the University of California, Riverside (UCR) with a Bachelor of Science degree in Chemical



Engineering. Currently, Mr. Cardoza provides technical support as a Project Engineer for Risk Management Professionals.

Through his experience and education, Mr. Cardoza has developed technical writing, problem solving, and analytical skills. Since joining, Mr. Cardoza has been involved in multiple aspects of United States Environmental Protection Agency (US EPA) Risk Management Plan (RMP), Occupational Safety and Health Administration (OSHA) Process Safety Management (PSM) Program, and California Accidental Release Prevention (CalARP) Program development, including the following:

- Process Hazard Analyses (PHAs) including Hazard & Operability (HAZOP) studies scribe/facilitation support
- Toxic and Flammable Gas and Liquid Dispersion Modeling
- Risk Management Plans (RMP) / Process Safety Management (PSM) Programs
- California Accidental Release Prevention (CalARP) Program

While Mr. Cardoza has experience in diverse product lines, all completed projects have used high-end qualitative and/or quantitative risk analysis techniques for decision-making. He has been involved in a variety of engineering projects across several industries, including the following:

- Wastewater Treatment and Distribution Systems
- Ammonia Refrigeration Systems
- Selective Catalytic Reduction Units
- Hydrodesulfurization Unit

PROJECT EXPERIENCE

Process Hazard Analyses (PHA)

Mr. Cardoza has been the technical scribe for PHAs using HAZOP and What-If/Checklist methodologies for varying facilities. The following is representative of the projects that Mr. Cardoza has provided technical scribing support for in the conceptual design stage, detailed design stage, and operating cycle.

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- *Otay Water District, San Diego, CA* – Provided facilitation for the Process Hazard Analysis and Hazard Reviews using HAZOP and What-if/ Checklist methodologies for four of the District's facilities including their treatment plants, wells, and reservoirs.
- *HF Sinclair, Salt Lake City, UT* – Provided scribe support for a Process Hazard Analysis conducted utilizing HAZOP and What-If/Checklist methodologies for the Hydrodesulfurization Unit.
- *Petronas Canada, Canada* – Provided scribe support for a Process Hazard Analysis conducted utilizing HAZOP methodology for the Water Hub unit utilized for fracking operations.
- *McConnell's Fine Ice Cream, Oxnard, CA* – Provided scribe support for a Hazard Review conducted utilizing HAZOP and What-If/Checklist methodologies for the ammonia refrigeration unit.

CalARP/RMP/PSM Program Developments and Updates

Mr. Cardoza has developed several CalARP, RMP, and PSM Programs for a number of industries and processes. As part of these efforts, he has conducted Offsite Consequence Analyses (OCA), dispersion modeling, program development, United States Environmental Protection Agency (US EPA) submittals, and review. Below is a partial list of projects for which Mr. Cardoza has provided CalARP/RMP/PSM Program Development/Update support:

- *Ninth Avenue Foods, Columbus, OH* - Conducted the Offsite Consequence Analysis for the Anhydrous Ammonia Refrigeration Unit. Assisted in documentation of program development for RMP compliance for the facility.
- *Northern California Power Agency, Lodi, CA* - Assisted in full program re-development to assist facility accessibility to program elements for future compliance. Conducted the Offsite Consequence Analysis as part of their RMP program development.
- *Parter Medical Products, Carson, CA* – Assisted in full program development for the EO sterilization unit for compliance with state CalARP requirements.

Compliance Audits

Mr. Cardoza has been involved in the compliance audits of multiple systems and facilities. This includes online documentation review of program elements and on-site walkthrough reviews. Mr. Cardoza determines compliancy with existing program elements and develops a list of recommendations to assist in deficient program elements. Below is a partial list of projects where Mr. Cardoza has conducted Compliance Audit services:

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- *Goal Line LP, Escondido, California* - Conducted the online documentation review as well as on on-site review of system conditions and program elements. The result of the audit was a list of recommendations in an action tracking log to meet CalARP/RMP/PSM requirements and assist in future program element compliancy.
- *City of Calexico, Calexico, CA* - Conducted online documentation review of CalARP/RMP/PSM program elements to determine compliancy with federal and state regulations. City of Calexico maintains two sites: East Side Reservoir (Program 2) and Water Treatment Plant (Program 3).
- *Shadow Wolf Energy, Newhall, CA* – Conducted online and on-site documentation review of CalARP/RMP/PSM Program level 3 elements to assist in compliance with federal and state requirements.

CLIENT LIST

The following is a partial list of clients that Mr. Cardoza has managed and/or provided technical support:

Municipalities and Water Treatment

- City of Calexico
- City of Tracy
- Central Coast Water Authority
- San Luis Obispo County – Lopez Water Treatment Plant
- Otay Water District
- City of Redlands – Henry Tate Water Treatment Plant

Ammonia Refrigeration Facilities

- Ninth Avenue Foods
- McConnell's Fine Ice Cream
- Bumblebee Foods LLC
- Boskovich Farms
- RLS Alliance
- American Bottling Company
- Cold Star Ice

Agriculture Facilities

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- Colusa County Farm Supply

Energy

- Onward Energy – Goal Line LP
- Northern California Power Agency – Lodi Energy Center
- Shadow Wolf Energy – Cogeneration Facility 42

Oil and Gas Refineries

- HF Sinclair
- Petronas Canada