

PROFESSIONAL HISTORY:

*Risk Management Professionals, Inc.;
Irvine, California; Senior Technical
Consultant; 2022-Present*

*Risk Management Professionals, Inc.;
Irvine, California; Technical
Consultant; 2013-2022*

*Risk Management Professionals, Inc.;
Irvine, California; Communications
Specialist; 2010-2013*

Training:

First Aid, CPR, and AED; 2019.

AFILIATIONS:

*Community Emergency Response
Team (CERT), City of Corona
Joined in 2018*

*Central Valley Chemical Safety Day
Committee Member since 2016*

*Refrigeration Engineering &
Technicians Association (RETA)
Member since 2018*

*Refrigeration Engineering &
Technicians Association (RETA)*

*Conference Committee Member
(2020)*

PUBLICATIONS:

*Fight or Flight: A Comparison of
Emergency Action and Emergency
Response Plans (2018)*

*Compliance Audits: Ensuring the
Viability of a Living Program (2020)*

Mr. Bray has twelve (12) years
of experience in the health and
safety field assisting in
technical workshops, marketing



activities, and various types of safety plans. Since 2013, Mr. Bray has been a Senior Technical Consultant at Risk Management Professionals and has been immersed in multiple aspects of the emergency preparedness. Focusing on Federal Emergency Management Agency (FEMA) and the California Governor's Office of Emergency Services (CalOES) Hazard Mitigation Plan (HMP) as well as emergency preparedness planning. His process safety experience includes performing updates and providing guidance on the California Accidental Release Prevention (CalARP) Program, the United States Environmental Protection Agency's (USEPA's) Risk Management Plan (RMP) Program; and the Occupational Safety and Health Administration's (OSHA's) Process Safety Management (PSM) Program.

His exceptional problem-solving and organizational skills provide a high level of support for all projects to ensure project completion, regulatory compliance, and client satisfaction. Mr. Bray's extensive HMP experience has focused on the following areas of practice.

- Local Emergency Planning
- Hazard and Risk Assessment
- Compliance Audit
- Water Demand Assessments
- Grant Writing and Applications
- Urban Water Management Planning
- Debris Management Planning
- Risk and Resilience Assessments

Hazard Mitigation Plans

HMPs include a risk assessment of probable hazards, including the estimated frequency of occurrence and extent of impact. In addition, the Plans identified possible mitigation projects and examined the economic feasibility of the projects through a qualitative cost-benefit analysis. Development of each Plan also included public participation and neighboring agency coordination. Mr. Bray has worked extensively on HMPs for California cities, counties, and municipalities.

Mr. Bray's experience has included working with agencies to maximize public input utilizing multiple mediums including live broadcasts and social media forums. In addition, Mr. Bray developed a system to acquire focused input from the public which can directly be implemented into the planning process. Mr. Bray has earned positive feedback from Cal OES representatives highlighting the effectiveness of the system during the review processes for multiple plans.

Mr. Bray has a 100% acceptance rate for all plans submitted to Cal OES and FEMA.

CalARP/CAPP/RMP/PSM Programs

Mr. Bray's efforts in CalARP/RMP/PSM Programs extend to a broad range of industries, including ammonia refrigeration, seafood production, produce/agriculture, dairy production, cogeneration/energy facilities, metals finishing, and public agencies. His CalARP/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.

Compliance Audits/Gap Analyses/Applicability Assessments

Mr. Bray has conducted many Compliance and Gap Analyses for several different industries including agriculture, water treatment, public agencies, and cogeneration facilities. The duration of the projects has 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.

Ryan W. Bray

Urban Water Management Plans (UWMPs)

Mr. Bray assisted with UWMPs for public agencies, water districts and cities within Southern California for the 2015 updates. His primary responsibilities included overall project management, development of water use and supply estimates, general assistance and review with the programs and developing the Water Use Contingency and Water Supply Reliability sections for the plans.

Emergency Response Plan (ERPs)/Emergency Operations Plans (EOPs)

Mr. Bray has managed the update and development of ERPs and EOPs for water districts and cities within Southern California. Mr. Bray has ensured each Plan was laid out in accordance with the Incident Command System (ICS) and illustrated by the National Incident Management System (NIMS) and in accordance with California's Safety and Emergency Management System (SEMS).

Debris Management Plans (DMPs)

Mr. Bray has managed the development of DMPs in accordance with FEMA's Public Assistance Grant Program and Cal OES guidance. Plans include debris volume estimates based on scenario modeling and serve as an extension of ERP/EOP planning. Plans includes steps for encouraging maximum reimbursement for emergency debris management from FEMA and are outlined in accordance with ICS.

Risk & Resilience Vulnerability Assessments (RRAs)

Mr Bray has managed the development of RRAs in accordance with Section 2013 of the America's Water Infrastructure Act of 2018 and the American Water Works Association J100-10 "Risk and Resilience Management of Water and Wastewater Systems" standard. The process included review of agency assets and development of hazard profiles to establish vulnerability estimates for critical infrastructure. Following the completion of the assessment, Mr. Bray has worked with agencies to identify potential modifications to their emergency plans based on the finds of the RRA.

Ryan W. Bray

Spill Prevention, Control, and Countermeasures (SPCC) Plans

Mr. Bray has provided support for 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. The industries served include meat processing and logistics.

CLIENT LIST

The following is a partial list of clients that Mr. Bray has managed and/or provided planning support.

- Bornstein Seafoods
- Boskovich Farms
- City of Benicia
- City of Brawley
- City of Calexico
- City of Cerritos
- City of Colton
- City of Compton
- City of Downey
- City of El Centro
- City of El Segundo
- City of Fountain Valley
- City of Gardena
- City of Garden Grove
- City of Imperial
- City of La Habra
- City of Paramount
- City of Poway
- City of Torrance
- City of Tracy
- City of Tustin
- Desert View Power, Inc.
- Eastern Municipal Water District
- Glacier Cold Storage
- Greenleaf Power
- Kern Energy
- Liberty Utilities
- Montecito Fire Protection District
- Montecito Water District
- Onward Energy
- Peter Rabbit Farms
- Rainbow Municipal Utility District
- Rolls Royce
- San Dieguito Water District
- Santa Fe Irrigation District
- SeneGence
- Sheldon United
- Smithfield
- Smithway Associates
- SYGMA
- SYGMA
- Terra Energy Partners
- The Gill Corporation
- The Picerne Group
- Triunfo Sanitation District
- Ventura Regional Sanitation District

Ryan W. Bray

- Ventura Water
- Williams Midstream
- Winonics
- Wood Rogers, Inc.
- World Energy
- Zone 7 Water Agency

While Mr. Bray has experience in diverse product lines, all completed projects have used risk analysis techniques for decision-making. He has provided project coordination and marketing across several industries including the following.

- Municipalities
- Ammonia Refrigeration
- Power Generation Facilities
- Chemical Manufacturing
- Oil & Gas
- Agriculture