



THOMAS V. RODANTE, P.E., CFEI, CFII
Senior Principal Engineer
BAKER ENGINEERING AND RISK CONSULTANTS, INC.

Education:

B.S., Fire Protection Engineering, University of Maryland

Areas of Practice:

Tom Rodante is a remote staff member in BakerRisk's Process Safety Group. He has over forty plus years of international experience in the petroleum and chemical industries providing service to corporations and facilities in the areas of fire protection, process safety management, crisis management, risk engineering, occupational safety & health, environmental management, and incident investigation. Mr. Rodante's primary experience is in upstream E&P (both on and off shore), downstream manufacturing (refining, petro-chemical, gas plants, grease, and lube oil), downstream distribution (marketing operations, terminals, pipelines), and corporate consulting activities. He joined BakerRisk with the merger of ECRC and BakerRisk in 2000, and resides near Dallas, Texas.

Experience:

- Conducted numerous plant audits (process safety management, fire protection, risk mitigation, emergency preparedness, due diligence, emergency isolation valves, pre-startup operational readiness, etc.), fire protection design reviews, incident investigations, facility siting studies, insurance risk engineering surveys, and process hazard assessments.
- Performed extensive hazard consequence and risk analysis modeling to aid in assessing engineering design alternatives, developing pre-fire and oil spill response plans, quantifying potential loss estimates, and validating incident investigation suppositions.
- Served as a principal investigator on numerous industrial accidents, fires, and explosions.
- Programs developed by Mr. Rodante included corporate EHS policies, engineering design standards, performance metrics, and model operating practices.
- In addition to various technical skills, Mr. Rodante has extensive experience in management systems. He has counseled executive management in the areas of EHS process integration, EHS alignment with business objectives, evaluation and response to emerging issues, personnel development programs, and corporate stakeholder interactions / community relations. His innovative implementation of departmental organizational structure yielded a truly integrated group of professionals aligned directly to core operational business functions rather than along more traditional scientific disciplines.
- Served as Chairman for the Center for Chemical Process Safety (CCPS) – Technical Management Subcommittee, Chairman of the National Fire Protection Association's (NFPA) Industrial Section Board of Directors, Chairman of the National Fire Protection Association's Safety to Life Code - industrial chapters, and Chairman of the American Petroleum Institute's Committee on Safety and Fire Protection Engineering. He is currently serving on: NFPA 59A Technical Committee – Standard for the Production Storage, and Handling of Liquefied Natural Gas; and past member of the American Fuel and Petrochemical Manufacturers' – Safety & Health Committee.
- Prior to joining ECRC, Mr. Rodante was employed by Caltex Petroleum Corporation where he held the position of International Manager – Environment, Health & Safety, and Director – Crisis Management Team. In that capacity, he had direct responsibility for 23 EHS specialists in 15 countries.

Professional Chronology:

College Park Vol. F.D., 1970-1975; United States Coast Guard, 1973-1975; Caltex Petroleum Corp., 1975-2000 (retired); ECRC, 2000-2001; Baker Engineering and Risk Consultants, Inc., 2001-Present.

Professional Registrations/Certifications:

Registered Professional Engineer (Texas)
Certified Fire and Explosion Investigator (CFEI)
Certified Fire Investigator Instructor (CFII)



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Professional Memberships: Society of Fire Protection Engineers (SFPE), American Society of Safety Engineers (ASSE), National Fire Protection Association (NFPA) – Life Member, National Association of Fire Investigators (NAFI)

Publications: “Cost Effective Safety Considerations Made Possible By Quantifiable Hazard Analysis” - American Institute of Chemical Engineers (1989); “Innovative Fire Protection for Marine Petroleum Wharves” - International Fire Journal (1998); “Analysis of an LPG Explosion and Fire” – Mary Kay O’Connor Process Safety Center (2001) and – Process Safety Progress (Vol.22, No.3); “Investigation of a Naphtha Storage Tank Fire” – American Institute of Chemical Engineers (2004) Loss Prevention Symposium and – Process Safety Progress (Vol.24, No.2); “Application of an Emergency Egress Risk Index System and Protection Layer Evaluation in the Determination of Life Safety Requirements for Open Structure Industrial Occupancies” – CCPS/AIChE (4th Annual Global Conference of Process Safety - 2008) and – NPRA National Safety Conference (2008) and – NFPA World Safety Conference (2008); “Corporate Crisis Management - Disaster and Business Continuity Planning” – NFPA World Safety Conference (2009); “Industrial Incident Investigation Techniques” – International Symposium on Fire Investigation Science and Technology (2012); “Procedural and Causal Lessons Gathered Over Years of Ingestions” - AIChE 13th Global Congress on Process Safety, San Antonio, TX, March 28, 2016; “Guidelines for Investigating Chemical Process Incidents” - CCPS/AIChE text book co-author Third Edition in progress.