

RIFFAT MAQBOOL QADIR, PE
Principal, Enpro Solutions, Inc., Dublin, California

AREAS OF EXPERTISE

Project Management and Cost Control, Strategic Environmental Management, Environmental Compliance and Auditing, Soil and Ground Water Remediation, Process Engineering, Water and Air Treatment, Feasibility Studies, Risk Assessment, Chemical Fate and Transport Modeling, Site Assessment, Environmental Permitting (air, water, RCRA), Process Safety Management (PSM), Process Hazard Analysis (PHA), Hazardous Materials Management, Chemical Spill Prevention and Pollution Prevention.

SUMMARY OF EXPERIENCE

With over thirty years of consulting and industrial experience, Mr. Qadir has managed environmental projects for Fortune 500 corporations and federal, state and local government agencies. He has provided strategic environmental assessment and due diligence to support property transfer/M&A activities. He has provided engineering peer review and litigation support for environmental, health and safety issues. He has performed QA/QC, cost estimating and planning for remediation system and manufacturing facility decommissioning. Mr. Qadir has prepared RCRA Part B operating plans, spill prevention control and countermeasure plans (SPCCs), storm water plans (SW3Ps), hazardous materials plans and hazardous waste minimization plans. Mr. Qadir has developed products and processes in the areas of coatings, wet-welding electrodes and explosives.

Mr. Qadir has extensive experience in PSM of hazardous materials and has prepared CalARP/RMP plans, conducted PHAs and offsite consequence analyses (OCA). He has conducted environmental and PSM audits at more than 12 chemical or ammonia refrigeration facilities and provided audit support to industrial clients audited by regulatory agencies. Mr. Qadir has led HAZOP and What If reviews for ammonia refrigeration systems and chemical plants handling ammonia, chlorine, hydrogen, sulfur dioxide, trichlorosilane and other toxic or flammable materials.

Mr. Qadir has managed large, complex, soil and ground water remediation projects from concept through design, procurement, installation, startup, operation & maintenance and closure. He has obtained site closure, remediation system shutdown or reduced monitoring at several sites. His experience spans industrial, superfund, military, commercial, and retail sites. Mr. Qadir has led teams of engineers and scientists on multimillion dollar projects and has prepared feasibility studies (FS) and life-cycle cost estimates, remedial action plans (RAPs), design drawings and construction specifications. He has performed pilot studies, prepared remedial designs (RD), directed remedial investigations (RI) and/or managed remediation system O&M at over 50 sites. He has directed or performed fate-and-transport modeling for free product plumes, ground water and solute transport, vadose zone leachate and vapor extraction. Mr. Qadir has installed/managed remediation systems at sites containing petroleum, chlorinated hydrocarbon, metal or other contaminants in soil and/or ground water. Technologies included soil excavation and treatment, dual-phase extraction, product recovery, soil vapor extraction (SVE), hot air injection, air sparging, in-situ chemical oxidation, and ground water extraction/treatment. He has designed vapor and ground water treatment processes including activated carbon, thermal/catalytic oxidation, ozone and hydrogen peroxide injection, air stripping, steam stripping, bioreactor, ion exchange and reverse osmosis.

PROFESSIONAL HISTORY

President, Enpro Solutions, Inc., January 1998 - Present

President/Principal, Amador Engineering & Infrastructure, Inc., February 1997 - December 1997

Engineering Manager/Senior Engineer, Environmental Science & Engineering, Inc., Concord, California, 1993 - 1997

Senior Engineer/Project Engineer, Harding Lawson Associates, Santa Ana, California, 1990 to 1993.

Staff Engineer, Kennedy/Jenks/Chilton, Irvine, California, 1988 - 1990

Senior Engineer, Broco Inc., Rialto, California, 1984 - 1988

Development Engineer, Advanced Coatings and Chemicals, Temple City, California, 1983

EDUCATION

MS Chemical Engineering, University of Michigan, 1981

BS Chemical Engineering, University of Engineering and Technology, Pakistan, 1980

Graduate work at Cal-Poly, Pomona, 1985,

Graduate work at the Illinois Institute of Technology 1982.

TRAINING

RIFFAT MAQBOOL QADIR, PE
Principal, Enpro Solutions, Inc., Dublin, California

OSHA and EPA 40-hour Training with annual refresher/8-hour Supervisory Training
Understanding Human Factors, AIChE/CCPS Short Course, 8th Global Congress for Process Safety, 2012
Process Safety for the Biofuels Industry, AIChE/CCPS Short Course, 2011
Management Development for Entrepreneurs, 60-hour course, Certificate, UCLA, 2001
California Accidental Release Prevention (CalARP), Short Course, Hazmacon, 1998
Risk-Based Corrective Action (RBCA), Short Course, ASTM, 1997
Bioremediation of Hazardous Waste Sites: Practical Approaches to Implementation, EPA Seminar 1996
Nuclear Gage Radiation Safety Training Class, 1996
Assessment, Control and Remediation of LNAPL Contaminated Soils, ES&T Workshop, 1995
Basic Principles of Project Management, 30-hour course, Certificate, Project Management Institute, 1993
Soil Remediation Workshop, Shell Oil Co., 1992
Soil Remediation Workshop, Shell Oil Co., 1991
Chemodynamics, Environmental Fate and Mobility, Short Course, AIChE, 1990
HazCat Chemical Identification System Short Course, Hazmacon, 1988
Sputter Deposition and Ion Beam Processes, Short Course, American Vacuum Society, 1985
Safety and Handling of Marine Explosives, Safety Course, Broco Inc., 1984
Southern California Meter Association, Instrumentation Short Course, 1984

REGISTRATIONS AND LICENSES

Professional Engineer, California #CH4767, 1992
General Engineering Contractor, California, License #750661, with Hazardous Substance Certification, 1998

PROFESSIONAL AFFILIATIONS

American Institute of Chemical Engineers (2001-2002 Chair, Northern California Section)
Contra Costa Industrial Association
Refrigeration Engineers and Technicians Association (RETA)
Western States Petroleum Association
Past Member - American Council of Engineering Companies
Past Member - Northern California 8a Association (2006-2008 Secretary)

PUBLICATIONS AND PRESENTATIONS

“Are You Ready for a Random OSHA-PSM Inspection? What Every Ammonia Refrigeration Operator Must Know About OSHA’s New Chemical NEP Enforcement Program!” Mac Qadir, PE, Presented at RETA Bay Area Chapter, August 15, 2012

“Are You Ready for an OSHA PSM Inspection? How OSHA’s new Chemical NEP Could Affect Your Bottom Line”, Mac Qadir, PE, Presented at Process Safety Management Workshop, Industrial Association of Contra Costa, April 2012

“What did your HAZOP miss? Revalidate Your PHA Properly to Meet EPA, OSHA and CalARP Requirements”, Mac Qadir, PE, Presented at Process Safety Management Workshop, Industrial Association of Contra Costa, April 2012

"The Brownfield Challenge", R. Maqbool Qadir, PE, Environmental Protection, March 2002

"Final Site-Wide Feasibility Study for Lawrence Livermore National Laboratory Site 300", (L. Ferry, R. Ferry, W. Isherwood, R. Woodward, T. Carlsen, Z. Demir, R. Qadir and M. Dresen), University of California - U.S. Department of Energy Publication UCRL -AR- 132609, November 1999

Risk-Based Corrective Action and Natural Attenuation: Recent Trends in Site Restoration, or "To Remediate or Not to Remediate, That Is The Question", presented at Northern California AIChE, Berkeley, California, September, 1998.

"Predicting Cleanup Time and Transient VOC Concentrations in Vapor Extraction Systems with Mathematical Models in Hydrocarbon Contaminated Soils and Ground Water", R. Maqbool Qadir, Volume 3, edited by Paul T. Kosteci & Edward J. Calabrese, Lewis Publishers, 1993.