

EXPERIENCE

Michael Quinn has over 39 years of management and consulting experience supporting high-hazard industries, including the past fourteen (14) years providing root cause evaluation, organizational and program recovery project management, corrective action program, employee concerns investigations, organizational performance assessment, safety culture and human performance training, leadership development/ coaching, and related consulting services. His clients come from several industry sectors, including: the commercial nuclear power industry in the U.S. and Canada; U.S. Government (e.g., U.S. NRC, U.S. DOE); and other Organizations seeking high reliability performance.

EDUCATION and TRAINING

- Sc.D. Doctorate in Organizational Management Systems (System Dynamics), University of New Haven
- MBA, University of New Haven
- B.S. Chemistry, Charter Oak College
- Senior Reactor Operator License (SRO) Certification Program (62 weeks)
- Numerous Nuclear/ Technical Training Programs

LICENSES and CERTIFICATIONS

U.S. NRC Senior Reactor Operator License #10071 on a Westinghouse Pressurized Water Reactor (PWR)
Certified Root Cause Investigator by:

- Nuclear Safety Review Concepts Event Evaluation (Phoenix Method) and,
- FPI/ PII Prevention and Reduction of Nuclear Organizational and Programmatic Failures

Certified Behavioral Interviewing by Development Dimensions International, Inc. (DDI) Assessment Center

Hogan Assessment Systems Certification (individual selection, executive/ management coaching and development)

Clark Wilson Group Certification (executive, management, group, and team assessment and coaching)

Certified Radiation Safety Officer (by Radiation Safety Institute of Canada)

SELECTED CONSULTING EXPERIENCE

(additional examples and greater detail available on request)

- **U.S. NRC:** provided root cause training to two 95003 Special Inspection Teams each comprised of 20+ senior US NRC staff prior to assessing a BWR licensee (in 2013) and a PWR Licensee (in 2007)
- **U.S. NRC:** Awarded 2nd five year (2012-2017) contract to develop and deliver root cause evaluation training of commercial nuclear plant licensee root cause event reports to US NRC inspectors and technical staff; entails US NRC Inspection Manual 0305; Inspection Procedures 71152, 71153, 95001, 95002, 95003; have trained over 500 U.S. NRC staff; 3-4 course deliveries/ year **(2006 - 2015)**
- **MetalTek/ SMCI** (component supplier to the four AP 1000 new builds in SC and GA) - root cause team lead for three RCAs focused on supplier fabricated product and associated processes **(2014)**
- **Energy Solutions/ ZionSolutions** - Team Lead for a root cause analysis on a spent fuel transfer to dry cask event; team lead for a *Collective Significance* assessment on Fuel Transfer Operations during decommissioning **(2014)**
- **Chicago Bridge & Iron and Shaw Modular Solutions** - (new build support for four (4) AP1000 units in GA and SC); Corrective Action Program support; root cause team lead for a significant incident; Provided root cause training to staff; consult on organizational, Safety Conscious Work Environment (SCWE), and product quality challenges; consulted on potential regulatory action and organizational response **(2012 - 2014)**
- **Westinghouse/ PaR Nuclear** – Root Cause Team Lead of eight (8) individuals conducting five RCAs on installs at five nuclear stations as well as a the Lead on the Collective Significance Assessment **(2012 - 2013)**
- **Wolf Creek Nuclear Operating Company/ Excel Services - LOOP:** Root Cause Team External Assessor/ and Lead for the Comprehensive Event Assessment investigating a 98 hour loss of offsite power event; **(2012)**
- **Mitsubishi Heavy Industries/ TCPS/ MNES/ Dominion Power** Root Cause Team Lead on a design phase issue on the U.S. APWR project for North Anna 3; SCWE; **(2011 - 2012)**
- **ZionSolutions/ Energy Solutions (2011/ 2014)** - corrective action program assessment remediation and training (2011);
- **Bruce Power Nuclear Generating Station (8 units):** Led the Root Cause Team, and was subsequently appointed Project Manager of a one-year Recovery Team of 25 following the trans-uranic uptake to over 400 workers; coached management on corrective actions, Safety Conscious Work Environment, and led program recovery **(2010 - 2011)**

- **Atomic Energy Canada Limited:** organizational turnaround consulting on reactor rebuild organization of 600 staff; corrective action/ root cause coaching and training/ SCWE/ nuclear safety consulting to the CANDU Reactor Retube Project; advised CARB/ MRB entailing two nuclear reactor rebuilds; **(2009 - 2010)**
- **Vermont DPS/ Vermont Yankee Nuclear Power Station** co-assessor of the Corrective Action Program and VY Root Cause process in context of the reliability evaluation of Vermont Yankee in regard to plant license extension (beyond 2012) **(2008 - 2009)**
- **US Department of Energy (Hanford)** – led an assessment team on a prime contractor’s activities (2006)
- **Los Alamos National Laboratory - KSL Services:** Led organizational effectiveness assessment team recon effort/ and subsequent SCWE recovery of two organizations; employee concern investigations; causal analysis **(2006 - 07)**
- **Point Beach/ Kewaunee/ NMC/ Day Zimmermann NPS** – investigated and remediated safety culture issues at two sites/ three units with a prime nuclear supplier (multi-year fleet contract for maintenance services)

SUMMARY OF LINE MANAGEMENT EXPERIENCE (1975-1999)

- **Project Manager** (reporting to the President), on the Millstone Station recovery team, of a group assessing and remediating the safety culture and a safety conscious work environment (SCWE) at a recovering multi-unit nuclear facility of 3000 personnel (one of several project managers on the station recovery team) (1995-1999)
- **Director of Nuclear Station Services - Haddam Neck Station (CY)** - responsible for Radiation Protection, Industrial Safety, Nuclear Oversight, Corrective Actions/ Human Performance, Quality Assurance, Procurement, Finance and Accounting, Human Resources, Chemistry/ Radiochemistry, Licensing (liaison), Emergency Planning, Facilities Management, Building Services, Health Facility (Westinghouse PWR)
- **Manager of Planning and Strategy - Northeast Nuclear Energy Company** for five nuclear units located at three sites in two states
- **Project Manager - Northeast Utilities Nuclear Organization** organizational performance evaluations
- **Manager Nuclear Station Chemistry and Radiochemistry - Haddam Neck Station (CY)**
- **Nuclear Station Radio-Chemist/ Chemist - Haddam Neck Station (CY)**

Other Positions/ Responsibilities

- **Director of Nuclear Station Emergency Operations** (SRO Licensed - #10071) 1982-1997
- **Refueling and Maintenance Outage Shift Manager** - three outages (1984, 1986, 1988)
- **Nuclear Station Duty Officer** 1982-1997
- **Chair and Member, Plant Operations Review Committee (PORC) and CARB** - Haddam Neck Station
- **Member of a Nuclear Safety Assessment Board** sub-committee (Millstone Nuclear Power Station)
- **Executive Review Board** - Founding member of an executive review board at Millstone Station
- **INPO Team Member:** Evaluator - U.S. Southern Nuclear Unit 1989

CONTACT INFORMATION

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MICHAEL D. QUINN, Sc.D.

Selected organizations Dr. Quinn has worked with include:

Argonne National Lab/ International Atomic Energy Agency
Atomic Energy Canada Limited (AECL)
Bartlett Nuclear Inc.
Black and MacDonald, Limited (Nuclear Supplier)
Bruce Nuclear Generating Station (8 Unit Site in Ontario, Canada)

CANDU Owner's Group
Chicago Bridge & Iron
Connecticut Yankee Atomic Power Company
Day and Zimmermann NPS
Dominion Power - Millstone Nuclear Power Station

Energy Solutions
Excel Services, Inc.
Florida Power and Light
Kewaunee Nuclear Power Station
Los Alamos National Lab/ KSL Services/ KBR
Maine Yankee Atomic Power Company

Millstone Nuclear Power Station
Mitsubishi Heavy Industries/
Mitsubishi Nuclear Energy Services - US / North Anna 3 Nuclear
MetalTek/ Specialty Maintenance and Construction (SMCI)
Metropolitan Life Insurance, Inc.
Northeast Nuclear Energy Company

Nuclear Management Company (NMC) LLC
Nuclear Safety Associates/ WSCI
Ontario Building Trades
Point Beach Nuclear Power Station
Radiation Safety Institute of Canada

U.S. Nuclear Regulatory Commission (U.S. NRC)
U.S. Federal Emergency Management Agency (FEMA)
U.S. Department of Energy (DOE) Hanford, WA
U.S. Department of Energy (Waste Isolation Pilot Plant) Carlsbad, NM
U.S. Department of Energy (DOE) Yucca Mountain

Radiation Safety and Control Services, Inc.
Recon Management and Engineering, Inc.
St. Lucie Nuclear Power Station
Seabrook Nuclear Power Station

Shaw Group, Inc.
Shaw Modular Solutions, Inc.
SMCI - MetalTek International
South Texas Nuclear Project
State of Vermont DPS/ Entergy - Vermont Yankee

TC Program Solutions, Inc.
Westinghouse/ PaR Nuclear, Inc.
Wolf Creek Nuclear Operating Company
ZionSolutions - Zion Station Nuclear Power Station