



**PAUL J. MAROTTA, P.E.**

**EDUCATION:**

Ph.D. Mechanical Engineering, University of Tennessee Space Institute, Tullahoma, TN, 2008-present  
Manufacturing Executive Program, University of Michigan School of Business, Ann Arbor, Michigan, 1994  
M.S. Engineering, Union College, Schenectady, New York, 1985  
B. S. Mechanical Engineering, Manhattan College, Riverdale, New York, 1981  
B.S. Applied Mathematics, Siena College, Loudonville, New York, 1980

**PROFESSIONAL LICENSES AND REGISTRATIONS:**

Professional Engineer: New York, Michigan, Arkansas, Kentucky

**PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS:**

American Nuclear Society (ANS)  
National Council for Air and Stream Improvement (NCASI)

**OTHER:**

Inactive DOE Security Clearance (Knolls Atomic Power Laboratory)

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**CURRENT PROFESSIONAL INVOLVEMENT:** 2001 - present, **AquAeTer**, Operations Manager

Mr. Marotta is in charge of all operations of the Technical staff in the Brentwood office. He oversees technical quality, budgets, and personnel resources. Mr. Marotta has expertise in nuclear, industrial and environmental areas. Nuclear experience includes thermal design and performance analysis for the naval reactors (RSPA), design and installation of emergency fill systems, reactor vessel brittle fracture prevention analysis and new reactor prototype concept development. These areas required extensive computer modeling using complex dynamic simulations and three-dimensional finite element analysis. Mr. Marotta developed the first three dimensional finite element model used to set brittle fracture prevention limits for a reactor vessel. Industrial experience includes several positions in pulp and paper manufacturing from project engineer in the power plant, to plant manager. Environmental experience includes facility and corporate level environmental positions. Mr. Marotta currently directs mathematical modeling for air, water, wastewater, soils, and groundwater treatment projects.

**PRIOR PROFESSIONAL INVOLVEMENT:**

1997-2001 International Paper, Cincinnati, Ohio, Senior Staff Engineer, Environmental Technology  
1995-1997 International Paper, Liquid Packaging, Kansas City, Kansas, Plant Manager  
1992-1995 International Paper, Folding Carton, Clinton, Iowa, Manufacturing Manager  
1990-1992 International Paper, Corporate Environment, Memphis, Tennessee, Corporate Environmental Manager  
1988-1990 International Paper, Ticonderoga Mill, Ticonderoga, New York, Capital Project Engineer-Power, Air and Water  
1986-1988 General Electric, Knolls Atomic Power Lab, Schenectady, New York, Structural Design Engineer-Brittle Fracture Analysis of Reactor Vessel/Heavy Equipment  
1984-1986 General Electric, Knolls Atomic Power Lab, Schenectady, New York, Field/Construction Engineer Emergency Fill System and Equipment Installation  
1981-1984 General Electric, Knolls Atomic Power Lab, Schenectady, New York, Thermal/Hydraulic Design-Trident Reactor

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**AREAS OF EXPERTISE:**

**Nuclear**

Thermal Performance Analysis  
Brittle Fracture Analysis  
Emergency Fill Systems

**Environmental**

Regulatory Permitting & Compliance  
BMPs  
Ambient Air Monitoring & Modeling  
Remediation System Design & Implementation  
Soil and Groundwater Investigations  
Innovative Treatment Technologies  
Wastewater Evaluation & Design

**Manufacturing**

Facility Turnaround and Process Optimization  
Pulp and Paper  
Converting  
Printing