

Terence M. Murphy, P.E., LEED AP

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Work Experience

FLACK AND KURTZ, NY March 2006-Present

HVAC Engineer

Design Projects

- ◆Design HVAC systems for large commercial and residential building projects. Work includes heating and cooling load calculations, equipment and ductwork layouts, equipment sizing, coordination meetings, site walk downs, CAD drawings. Projects include; Federal Courthouse, Hotel/Condominiums, Theater, Commercial Piers.

Energy Analysis Projects

- ◆Model complex commercial building projects and perform energy analysis for code requirements, LEED 2.1 and 2.2 certification. Work includes modeling building envelope, enhanced glazing, HVAC systems, and energy efficiency measures. Projects include; \$7 Billion Las Vegas development (Convention Center, Theater, Podium, and Hotel Tower, Central Plant), Hotel/Condominiums, Police Station, Federal Courthouse, Corporate Headquarters, Apartment Buildings, U.S. Overseas Embassies.

Computational Fluid Dynamics Projects

- ◆Model spaces for thermal design and comfort and verification of equipment operational environment. Projects include; Data Center, Hospital Patient Rooms.

Solar Study Projects

- ◆Model commercial buildings to study effects of internal and external shading on spaces. Projects include; Multi-Phase Expansion of Convention Center, Proposed Commercial High Rise.

ENGINEERING CONSULTANT, September 2004 – February 2006

- ◆Offer engineering solutions for private residence remodeling, including MEP systems.
- ◆Functioned as liaison between Fire Department and Village of Tarrytown and their architect for new Village firehouse.

ENERGY/NEW YORK POWER AUTHORITY, NY July 1996 – August 2004

Senior Engineer, Pressurized and Boiling Water Nuclear Reactors

- ◆Perform core reactivity management and analysis.
- ◆Oversee fuel movement and inspections during core refueling.
- ◆Track and analyze isotopic and chemistry data.
- ◆Train plant staff in reactor engineering topics and risk analysis.
- ◆Conduct probabilistic risk assessment and safety analysis for five power plants.
- ◆Complete internal flooding analysis to determine flood sources, flood paths, equipment potentially vulnerable to submergence and spray effects, and structural design for flood mitigation.
- ◆Utilize accident analysis software to determine thermal-hydraulics, human reliability, and fission product parameters based on initiating events.
- ◆Prepare and analyze core design for physics studies.
- ◆Analyze core physics and technical specifications during various plant operating conditions.
- ◆Calculate plant reactivity during flux-mapping and plant startups.

Education

PACE UNIVERSITY – Lubin School of Business White Plains, NY
Master of Business Administration in Finance and Management

May 2002

MANHATTAN COLLEGE – School of Engineering Riverdale, NY
Bachelor of Science in Mechanical Engineering

February 1998

Computer Skills

HVAC	CAE	Operating Systems	Languages
eQuest	AutoCAD	Windows XP	VBA
Fluent Airpack	Revit	UNIX	HTML
Trane Trace	I-DEAS	MS Office Suite	BASIC
ComCheck			

Professional Affiliations

Professional Engineer – Licensed in the State of New York #080645
LEED Accredited Professional NC V2.2
Member – Order of the Engineer, Pi Tau Sigma

Publications

“Reactivity hold down and peaking factor comparison for fuel assemblies with Gadolinia/IFBA combinations versus IFBA/WABA combinations for Westinghouse 15x15 fuel,” Transactions from American Nuclear Society, 1998.

Leadership and Activities

Tarrytown Volunteer Fire Department: Washington Engine Co. 2, 1993 – Present ; Fireboat 5, 1994 – Present
Westchester County Department of Emergency Services Technical Rescue Team, 2006 – Present
Solomon’s Lodge No. 196 Free & Accepted Masons, 2006-Present
Tarrytown Planning and Zoning Recommendation Committee, 2005 – Present
ACE Mentor (Mentor high school students interested in architecture, construction, and engineering), 2007
Westchester/Rockland Wood Bat League, 1998 – Present
Westchester Youth Baseball Association: Head Coach Tarrytown Hawks, 2004 – 2007
Young Men’s Lyceum, 2002-Present