

QUALIFICATIONS

- 24 years of Transmission and Distribution Engineering and Management
- Registered Professional Engineer, Vermont, Pennsylvania, New Jersey

PROFESSIONAL EXPERIENCE & ACCOMPLISHMENTSTECHNICAL

- Developed an innovative plan using two unused 115kV lines operating at 34.5kV to keep the Freehold, NJ area from experiencing severe voltage problems during the summer of 1990.
- Designed and supervised construction of a 1000 foot distribution span over a deep gorge in West Townshend, Vermont.
- Designed and specified equipment for 34.5kV distribution lines in Jericho and Cambridge, Vermont.
- Designed, specified equipment for, and supervised the construction of a new 34.5V structure at Underhill Substation.
- Developed and implemented construction and operational plans that reduced VEC outage rate by 30%.
- Designed 5MVA, 46-12.5kV substation for the AgriMark Middlebury plant.
- Designed rebuild and addition to the Town of Stowe Electric Department Lodge Substation.
- Designed substation and 46kV line serving Coventry Landfill Generating Station for Washington Electric Cooperative
- Operated North Hartland Hydroelectric Plant, 4MW peaking unit on the Ottauquechee River, 1990-1996.

MANAGEMENT

- Supervised Engineering and Operations at the Vermont Electric Cooperative including:
 - Northern District Line Department consisting of the Northern District Line Supervisor, 11 linemen, and a mechanic, and;
 - Southern District Line Department consisting of the Southern District Line Supervisor, four linemen and an engineering technician, and;
 - Engineering Department consisting of the Engineering Supervisor, two engineering technicians, and a clerk, and;
 - Dispatch Department consisting of one VEC dispatcher and two contract night dispatchers, and;
 - Purchasing Department consisting of one Purchasing Supervisor and two stock clerks.
- Supervised the Northern Area Studies Group at Jersey Central Power and Light consisting of three junior engineers and two draftsmen. This group was responsible for the capacitor replacement program, performing circuit analysis, and mapping.
- Recognized the need to quantify the number of miles of line clearing required on the VEC system and implemented a program to record actual clearing on a foot/span basis. Obtained funding to allow a seven-year clearing cycle.



CONTRACT ADMINISTRATION EXPERIENCE

- Participated in successful contract negotiations with IBEW Local 300 in 1990, 1992, 1994, 1996, 1997, and 1999. Worked closely with the IBEW to modify the contract to include a four-day workweek and allow for “rubber-gloving” energized lines.
- Prepared and sent out for bid, construction contracts for the rebuilding of 150 miles of distribution lines.
- Negotiated maintenance contract with NEP for the North Hartland Hydroelectric Station.

REGULATORY EXPERIENCE

- Prepared testimony for VEC rate cases including the capital and O&M budgets.
- Wrote the T&D section of the IRP and negotiated a settlement of this section with the Department. The Board approved this IRP in 1999.
- Provided testimony to successfully resolve two long-standing Dockets, Windham and Derby Center, where members were trying to secede from the Cooperative.
- Handled the regulatory issues of the North Hartland Hydroelectric Station including:
 - the 401 Water Quality Permit, and;
 - the Army Corps Of Engineers Operating Agreement, and;
 - the FERC license.
- Prepared annual outage report for the DPS and PSB. Worked closely with Department consumer representatives to resolve members’ service problems and complaints.
- Prepared statistical information yearly for the FERC 1 Report.
- Prepared the REA Form 300 operating report bi-annually and met with representatives of REA to discuss capital and O&M spending.

BUDGETARY/FINANCIAL EXPERIENCE

- Assisted with \$200M annual T&D capital budget preparation at JCP&L, including proposing, scheduling and design of projects.
- Developed the \$2M annual T&D capital and O&M portion of the \$15M total budget at VEC. Helped the VEC Comptroller develop and implement an annual cash flow operating budget.
- Negotiated new pole attachment rates with NET that doubled attachment revenue.
- Prepared REA loan and Work Plan documents.

ENVIRONMENTAL EXPERIENCE

- Recognized the need to develop a program to remove PCB contaminated regulators and transformers from substations, and oversaw the implementation of a retro-fit/removal program.
- Prepared a Borrower’s Environmental Report required by REA for the VEC 1991-92 Work Plan.

EDUCATION

B.S., Electrical Engineering, Lafayette College, 1977-1981



EMPLOYMENT HISTORY

E/PRO ENGINEERING & ENVIRONMENTAL CONSULTING, LLC – Montpelier, VT

2001 – present *Principal Electrical Engineer*

GREEN MOUNTAIN POWER CORPORATION–Colchester, Vermont

1999-2001 *Senior Engineer*

VERMONT ELECTRIC COOPERATIVE – Johnson, Vermont

1990 – 1999 *Engineering and Operations Manager*

JERSEY CENTRAL POWER & LIGHT – Morristown, New Jersey

1981-1990 *Engineer I-Senior Engineer*

PROFESSIONAL AFFILIATIONS / REGISTRATIONS

Registered Professional Engineer:

Vermont (#5989), since 1990

Pennsylvania (#PE-038329-R), since 1988

New Jersey (#GE31539), since 1986

REFERENCES

Charles A. Farrington, Vermont Gas, 802-63-4511 ext. 305

Richard Joyce, Wellesley Municipal Light Plant, 781-235-7600 ext. 380

Dan Weston, Washington Electric Cooperative, 802-223-5245

OTHER

Westford Zoning Board of Adjustment, 1995-2003

President, Green Mountain Division, United States Fencing Association, 2005-Present