

# Young / Sommer LLC

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October 22, 2013

Hon. Secretary Kathleen H. Burgess  
Secretary  
New York State Public Service Commission  
Three Empire State Plaza  
Albany, New York 12223

RE: Case No. 12-T-0502, *Proceeding on Motion to Examine Alternating Current Transmission Upgrades,*

Case No. 13-T-0454, *Application of North America Transmission Corporation and North America Transmission, LLC for a Certificate of Environmental Compatibility and Public Need Pursuant to Article VII of the Public Service Law for an Alternating Current Transmission Upgrade Project Consisting of an Edic to Fraser 345 kV Transmission Line and a New Scotland to Leeds to Pleasant Valley 345 kV Transmission Line.*

Case No. 13-T-0456, *The Part A Application of NextEra Energy Transmission New York, Inc. for a Certificate of Environmental Compatibility and Public Need Pursuant to Article VII for the Oakdale to Fraser Project.*

Case No. 13-M-0457, *Application of New York Transmission Owners Pursuant to Article VII for Authority to Construct and Operate Electric Transmission Facilities in Multiple Counties in New York State.*

Case No. 13-T-0461, *Application of Boundless Energy NE, LLC for a Certificate of Environmental Compatibility and Public Need Pursuant to Article VII for Leeds Path West Project.*

Dear Secretary Burgess:

Please be advised that pursuant to 16 NYCRR §85-2.11(a)(9) and (b), 16 NYCRR §4.3 and Public Service Law § 124(4), the County of Delaware requests permission to intervene and be granted active party status in the above-captioned Article VII proceedings. In addition, as set forth in more detail in the attachment to this letter, the County of Delaware is hereby seeking intervenor funding to participate in these proceedings.

The County of Delaware has direct and substantial interests in this matter in that four of the transmission lines are proposed to be located in the County of Delaware. The County is uniquely suited to evaluate the multitude of potential impacts associated with the proposed transmission lines and alternatives. Delaware County Planning is the planning agency responsible for rendering assistance to all of the municipalities within Delaware County. In 1975 Delaware County commenced a pilot program called the Town Planning Advisory Service (TPAS) to provide professional planning staff to assist local planning boards with subdivision zoning reviews as well as to provide technical assistance in developing land-use laws to protect the rural character of the communities. Now, more than 35 years later, TPAS provide services to 26 of the Delaware County communities. The services provided include:

- Current Planning;
- Comprehensive Planning;
- Municipal Capital Projects;
- Watershed Management;
- Grant Writing;
- Well Head Protection;
- SEQRA;
- Land Use Training; and
- Mapping Services

The program is funded by Delaware County and the participating communities. As a result, Delaware County will be heavily involved in assisting the various individual communities with reviewing and identifying both advantages as well as potential concerns related to the route of the various transmission line proposals within the individual communities, as well as coordinating and evaluating the review of the impact of any proposal on Delaware County as a whole.

In addition, the County is independently investigating measures that will ensure that its residents and businesses have access to affordable (or low cost) energy sources for the foreseeable future through a County-wide Master Energy Plan. The residents and businesses of Delaware County cannot compete with those of the large metropolitan areas for the purchase of electricity over the grid. Those areas (with their higher per capita income and economies of scale) can afford to pay much higher prices for electricity than the rural communities. Since Delaware County has the natural resources to generate low cost electricity (natural gas, wind and hydro), it is investigating its alternatives to ensure that its residents and businesses have access to affordable electricity for the long term. In other words, Delaware County is investigating its

options for generating low cost clean electricity and making it available to its residents and businesses.

No other party can adequately represent the County's interests in this matter. The County further believes that its intervention will contribute to the development of a full and complete record and will serve the public interest. The County should, therefore, be granted active party status.

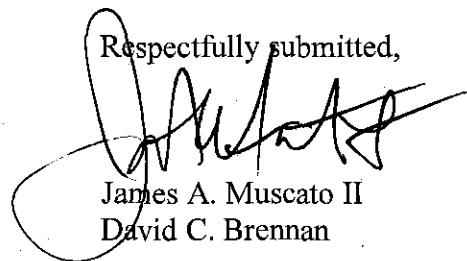
The County's representatives in this matter are as set forth below. Please add them to the active parties list.

Nicole Franzese  
Director of Planning  
Delaware County Planning Department  
PO Box 367  
1 Page Avenue  
Delhi, New York 13753  
607-746-2944  
607-746-8479  
[nicole.franzese@co.delaware.ny.us](mailto:nicole.franzese@co.delaware.ny.us)

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In the event that a motion is deemed necessary to grant the County of Delaware intervention and active party status, please deem this letter to be a motion on the County's behalf.

Respectfully submitted,



James A. Muscato II  
David C. Brennan

cc: Service List

STATE OF NEW YORK  
PUBLIC SERVICE COMMISSION

-----X  
Proceeding on Motion to Examine Alternating  
Current Transmission Upgrades

Case No. 12-T-0502

-----X  
Application of North America Transmission Corporation  
and North America Transmission, LLC for a Certificate of  
Environmental Compatibility and Public Need Pursuant to  
Article VII of the Public Service Law for an Alternating  
Current Transmission Upgrade Project Consisting of an  
Edic to Fraser 345 kV Transmission Line and a New Scotland  
to Leeds to Pleasant Valley 345 kV Transmission Line

Case No. 13-T-0454

-----X  
The Part A Application of NextEra Energy Transmission  
New York, Inc. for a Certificate of Environmental Compatibility  
and Public Need Pursuant to Article VII for the Oakdale to  
Fraser Project

Case No. 13-T-0456

-----X  
Application of New York Transmission Owners Pursuant  
to Article VII for Authority to Construct and Operate  
Electric Transmission Facilities in Multiple Counties in  
New York State

Case No. 13-M-0457

-----X  
Application of Boundless Energy NE, LLC for a Certificate  
of Environmental Compatibility and Public Need Pursuant  
to Article VII for Leeds Path West Project

Case No. 13-T-0461

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**THE COUNTY OF DELAWARE'S  
FIRST REQUEST FOR INTERVENOR FUNDS**

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James A. Muscato, Esq.  
David C. Brennan, Esq.  
Attorneys for Delaware County  
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STATE OF NEW YORK  
PUBLIC SERVICE COMMISSION

-----X  
Proceeding on Motion to Examine Alternating  
Current Transmission Upgrades Case No. 12-T-0502

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New York, Inc. for a Certificate of Environmental Compatibility  
and Public Need Pursuant to Article VII for the Oakdale to  
Fraser Project Case No. 13-T-0456

-----X  
Application of New York Transmission Owners Pursuant  
to Article VII for Authority to Construct and Operate  
Electric Transmission Facilities in Multiple Counties in  
New York State Case No. 13-M-0457

-----X  
Application of Boundless Energy NE, LLC for a Certificate  
of Environmental Compatibility and Public Need Pursuant  
to Article VII for Leeds Path West Project Case No. 13-T-0461

-----X  
**THE COUNTY OF DELAWARE'S**  
**FIRST REQUEST FOR INTERVENOR FUNDS**

In accordance with the October 4, 2013 Notice of Procedural Conference and Availability of Intervenor Funding, and in accordance with the provisions of Public Service Law §122(5) and 16 NYCRR §85-2.4(d) *et seq.*, the County of Delaware (hereinafter "County"), by Young, Sommer, Ward, Ritzenberg, Baker & Moore ("Young/Sommer"), submits the following as and for its First Request for Intervenor Funds.

## **1. The County's Citizens and Interests**

Delaware County is located in New York State's Southern Tier and is the home of some 47,559 residents. The County Seat, which is the Town of Delhi, is approximately 114 miles from the City of New York. Delaware County consists of 19 Towns<sup>1</sup> and 10 incorporated Villages<sup>2</sup>. The Supervisors of the 19 Towns comprise the nineteen member Delaware County Board of Supervisors ("DCBS" or "Board").

According to the U.S. Census Bureau, the County has a total area of 939,520 acres or 1,468 square miles. Fourteen thousand eighty (14,080) of those acres consist of water while the remaining 925,440 acres represent the portion of the County that is covered by land.

### **Status of Delaware County's Economy**

The 2009 per capita income of Delaware County residents is \$22,909, which is approximately 34% lower than that of New York State residents in general (\$30,634). The income level of the full-time population has been falling further and further behind the remainder of the State population. Statistics indicate that the wages to full time residents has not kept pace with the cost of affordable housing. During the period 2000 to 2005, real estate values in the County increased at a rate of 11% per year making the cost of new housing beyond the reach of the typical household in Delaware County.

Delaware County's economy is characterized by many small enterprises delivering a wide range of services and products. At this time, 35% of the County's workforce is self-employed compared to 18% in the total population of New York State. Historically, the County had a flourishing natural resource-based economy that included milk and maple syrup products,

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<sup>1</sup> The 19 Towns consist of: Andes; Bovina; Colchester; Davenport; Delhi; Deposit; Franklin; Hamden; Hancock; Harpersfield; Kortright; Masonville; Meredith; Middletown; Roxbury; Sidney; Stamford; Tompkins; and Walton.

<sup>2</sup> The 10 Villages consist of: Delhi; Deposit; Fleischmanns; Franklin; Hancock; Hobart; Margaretville; Sidney; Stamford; and Walton.

logging and wood products and blue stone mining. In an earlier century, Delaware County was listed as the largest milk producer in the country. However, during the period 1997 to 2006, the County lost 22% of its operating dairy farms due to the economics of farming. Logging employment, one of the oldest economic activities in the County has recently seen a 17% loss in jobs.

The manufacturing industry is the largest employer in Delaware County. Much of the manufacturing sector is located outside the New York City Watershed in and around the Town of Sidney. The manufacturing sector contributes 32% of the regional jobs and 40% of the regional earnings. In recent years these jobs have been threatened by the disruption from the frequent flooding that has occurred. The service and visitor economic sectors representing regional service jobs account for 22% of County jobs but only 16% of County earnings. While Delaware County has seen growth in tourism, the jobs associated with this sector are usually low paying and do not provide the needed employee benefits required to sustain a family.

Certain basic services, such as health care, education, delivery of electricity, availability of broadband, telephone and cell phone services and fire protection are required to sustain a community. These are necessities, not luxuries. The communities of Delaware County struggle not only to find available doctors and teachers to provide health care and education, but also to pay the doctor's bills and teachers' salaries in the current economy.

### Demographics

Delaware County (and some of its neighboring counties) has been losing population for decades. Between the years 2000 and 2006, the full-time population in Delaware County decreased by 2.2%, while the population of New York State increased by 1.74%. In addition to that decrease, this population is also experiencing a series of disconcerting shifts in age. During the ten year period from 1990 to 2000, the number of residents under 18 years of age decreased by 18.5%. In a study published by the Open Space Institute in March, 2011 on the potential for new development in the Catskill, based upon population data from Cornell University, Open Space Institute reported that by 2035, Delaware County is projected to lose 23% of its overall

population and 43% of its population under the age of 60. The aging population needs access to community services in order to survive. This demand for community services will be more and more difficult to provide if the workforce continues to dwindle. The loss of full time residents is in part due to the lack of affordable housing as briefly described in the section "Status of Delaware County's Economy" above. Since the cost of new housing is beyond the reach of the typical household in Delaware County, both the existing housing and the sparse new housing is being sold to individuals from outside the County who are purchasing the property as a second home. While typically second homeowners are a financial benefit to a local community due to their low demand for community services; in Delaware County, that benefit is offset by the lack of full time residents necessary to sustain basic community services (i.e., education, health care, elder care, volunteer services, utilities, etc.).

Another factor that contributes to the decline in full time residents is the level of education completed. The 2000 Census notes that only 16.5% of the Delaware County population holds a bachelor's degree or higher while 27.4% of New York State's population falls within that same category. While the County has experienced an increase in college age residents, or "part-time" residents, due to enrollment growth at SUNY Delhi, typically those graduating are forced to go elsewhere for adequate wage and corresponding housing opportunities.

#### Natural Resources and Tourism Opportunities

In addition to the agricultural and natural products discussed above, as noted by the Delaware County Chamber of Commerce ([www.delawarecounty.org](http://www.delawarecounty.org)), Delaware County is set in the western slopes of the Catskill Mountains and is a land of wooded hills and fertile green valleys. Delaware County contains over 700 miles of fishing streams, remarkable covered bridges, welcoming people and beautiful vistas.

Delaware County contains a multitude of recreational opportunities such as parks, hiking and biking trails, wildlife preserves, public pools, horse trails, soccer fields and baseball diamonds. In addition, the County contains thousands of acres of public land with a wide variety



of game habitats. The West Branch and East Branch of the Delaware River are located in Delaware County and are two of the area's premier trout streams and the Pepacton and Cannonsville Reservoirs of the New York City water supply are among bass and trout fishing's best-kept secrets.

### Needs/Objectives

One of the paramount goals and missions of the DCBS is to reverse the population decline and increase community sustainability. In order to reverse this trend, Delaware County needs, among other things, to: expand access to utilities and infrastructure to support an increase in manufacturing and other economic growth; expand access to jobs paying a livable wage with benefits to provide economic opportunities; and monitor and protect its existing natural resources and tourism opportunities to maintain those sectors of its economy.

The County needs to focus on jobs that cannot be outsourced to some other part of the world or country. Some of those jobs will come from the harvesting and maintenance of the vast natural resources within the County. The County's natural resources include (1) dairy farming; (2) other forms of agriculture; (3) timber and forest management; (4) blue stone; (5) wind resources; (6) natural gas; (7) exportation of drinking water; (8) wide open spaces; and (9) proximity to population centers and transmissions lines.

Through its Energy Master Plan, the County is independently investigating measures that will ensure that its residents and businesses have access to affordable (or low cost) energy sources for the foreseeable future. The residents and businesses of Delaware County cannot compete with those of the large metropolitan areas for the purchase of electricity over the grid. Those areas (with their higher per capita income and economies of scale) can afford to pay much higher prices for electricity than the rural communities. Since Delaware County has the natural resources to generate low cost electricity (natural gas, wind and hydro), it is investigating its alternatives to ensure that its residents and businesses have access to affordable electricity for the long term. In other words, Delaware County is investigating its options for generating low cost clean electricity and making it available to its residents and businesses. The County would like to

use the potential availability of low cost electricity and clean natural gas to make existing manufacturers more cost effective and to attract new manufacturers to existing industrial parks. The manufacturing sector (previously identified as the largest employer in Delaware County) can attract and adequately compensate full time residents. The availability of low cost electricity and natural gas will make it less likely that the manufacturers will leave and more likely that they will be attracted to Delaware County.

## 2. The County's Resources

As is further described below, Delaware County has organized the Delaware County Planning Department. The Department consists of its Director, Nicole Franzese, and seven technical staff members. In addition, the Delaware County Department of Public Works maintains several engineers with significant civil engineering and infrastructure experience. While the initial stages of review and providing comments in these proceedings can be conducted by technical staff within the County, the expertise needed to evaluate the various alternatives, different technologies and design options for an electrical transmission line is an area for which the County's existing technical staff will require outside technical assistance. While the County has technical staff, the detailed review of multiple simultaneous projects and alternatives will result in a significant burden on an already limited number of busy employees.

Notably, there are no funds available to designate for the review on this project or to hire such consultant(s) and/or expert(s) from the County or other sources.

## 3. Real Property Interests of Delaware County, Municipal Entities and Its Citizens

The County and its municipal entities own property throughout the area proposed for the three projects. Due to the substantial nature of multiple significant proposals, the County is still evaluating the locations of the various alternatives with respect to the County owned property. It is evident that Delaware County will be the focus of four large and competing projects which will impact, positively or negatively, numerous municipalities and the County as a whole.

#### 4. Amount of Funds Sought

The County employees listed below are not contract employees. Rather, they are subject to their respective Collective Bargaining Agreements as members of various unions. They will be paid in accordance with their salary scales. Employees will track the time spent with respect to review of these projects for the required reporting to the Commission. The County's proposed expert, Paul De Andrea, P.E. charges a rate of \$100/hour. The County will also utilize the services of Young/Sommer LLC for legal advice at a rate of \$175/hour.

The County estimates that the review commenting upon the various proposals and participating in the ongoing review and approval process will require approximately 500 hours of staff and consultant time using an average rate of \$100/hour, the County estimates that the review will result in a use of \$50,000 of time. Accordingly, the County respectfully requests funding in that amount but requests permission to seek additional funds as the scope, magnitude and duration of the projects and their review are better defined.

#### 5. The Names and Qualifications of the Participating Experts

Delaware County Planning Department is directed by Nicole Franzese, who has over 23 years of experience in planning in or around Delaware County. The Delaware County Planning Department consists of eight full-time employees:

Nicole Franzese, Director

Shelly Johnson-Bennett, Chief Planner

Kent Manuel, Senior Planner

Kristin Janke Schneider, Environmental Planner

Molly Oliver, Planner

Andre Lussier, GIS Technician

Spencer DeVaul, GIS Coordinator

Jessica Ulmer, Administrative Assistant

Delaware County Planning is the planning agency responsible for rendering assistance to all of the municipalities within Delaware County. In 1975 Delaware County commenced a pilot program called the Town Planning Advisory Service (TPAS) to provide professional planning staff to assist local planning boards with subdivision zoning reviews as well as to provide technical assistance in developing land-use laws to protect the rural character of the communities. Now, more than 35 years later, TPAS provide services to 26 of the Delaware County communities. The services provided include:

- Current Planning;
- Comprehensive Planning;
- Municipal Capital Projects;
- Watershed Management;
- Grant Writing;
- Well Head Protection;
- SEQRA;
- Land Use Training; and
- Mapping Services

The program is funded by Delaware County and the participating communities.

In addition to the planning services, the Delaware County Planning Department also maintains a comprehensive geographical information system (GIS) using the ArcGIS 10.1 platform. The GIS software allows the Delaware County Planning Department to perform various analyses ranging from land use to slope delineation. The County has multiple layers that can be used in the GIS system; these layers include tax parcel data, land use, zoning districts, water features (wetlands, streams, waterbodies), current and historical aerial photos, soils, slope delineation, and digital elevation models (DEM). These layers are vital to performing analyses and creating maps.

As a result, Delaware County is uniquely situated to assist the various individual communities with reviewing and identifying both advantages as well as potential concerns

related to the route of the various transmission line proposals within the individual communities, as well as to coordinate and evaluate the review of the impact of any proposal on Delaware County as a whole.

To staff this project, Delaware County Planning proposes to use the services of its staff members and to contract with Paul De Andrea, P.E. to provide technical advice with respect to the various proposals. Mr. De Andrea's CV is attached as **Exhibit A**. In brief, Mr. De Andrea is a registered Professional Engineer the State of New York. He holds a Bachelor of Science and a Master of Science in electrical engineering and has over 38 years of experience in the electrical utility industry. The County will also utilize the services of Young/Sommer LLC, a firm well versed in environmental review and energy projects, for legal advice.

#### 6. Other Parties Utilizing or Employing Such Experts

Upon information and belief, no other party intends to employ experts and/or consultants for this or a similar review. However, it is anticipated that the individual communities that are affected by the various proposals will seek assistance from Delaware County Planning to provide technical assistance if they believe their interests are not being made known to the Commission.

#### 7. Detailed Statement of the Services to Be Provided by the Experts

Delaware County Planning will review the various transmission lines and identify specific environmental, economic, historic and growth related concerns for each transmission route. In addition, Delaware County will coordinate with the individual municipalities to identify and review these considerations and obtain the local perspective on the impacts.

Delaware County Planning, through the implementation of a County Energy Master Plan, is uniquely qualified in that it understands and has information with respect to Delaware County's long-term energy needs and plans. In reviewing the proposed transmission line proposals, Delaware County will review the County's Energy Master Plan and provide

comments with respect to the interaction of Delaware County's long-term plans for energy and the proposals.

Finally, Delaware County will evaluate the various proposals with respect to agricultural impacts, growth inducing impacts, zoning designations, historic and archeologically sensitive areas, historic resources, comprehensive plan requirements, and county-wide considerations. Through the implementation and use of its GIS system, Delaware County will be able to provide detailed comments on these and other impacts, and also whether there are any adverse environmental impacts or positive considerations that will be an asset to the communities or Delaware County as a whole. In addition, with its County-wide perspective, the County is best suited to provide input on potential cumulative impacts associated with these transmission line proposals.

#### 8. Efforts to Encourage the Applicants to Conduct Review

The County intends to implement an outreach program to the various Applicants and will work with the Applicants to provide relevant information and comments to allow the Applicants to conduct the review. However, through its 35 years of assisting the various municipalities in the County, Delaware County Planning has the detailed institutional knowledge to provide review, comments and insights that will not be discerned by an outside consultant.

#### 9. Copy of Contracts

At this time the County is not in possession of any proposed or signed contract for services described herein. When contracts or engagement letters are prepared, authorized and executed, the County will provide them to the Commission, as necessary.

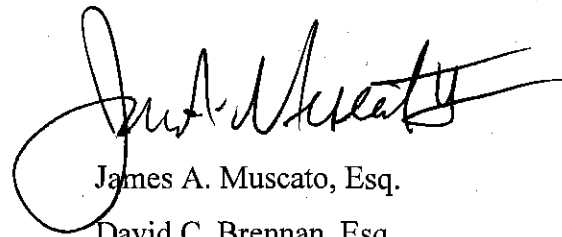
#### Conclusion

By virtue of the foregoing, the County is seeking funds to help defray the cost and expense of the use of in-house staff and experts and consultants set forth above. The County

respectfully requests that Your Honor grant the County's request. As noted above, the County will provide copies of any proposed contract once negotiated and will provide any additional information requested or required by Your Honor in this matter. In the event that Your Honor denies the County's Request, it is respectfully requested that a further date for supplemental and/or additional requests be set so that the County can work to obtain any additional information needed by Your Honor to grant the request.

Respectfully Submitted,

YOUNG/SOMMER LLC,

A handwritten signature in black ink, appearing to read "James A. Muscato", with a large, stylized loop at the beginning and a horizontal line extending to the right.

James A. Muscato, Esq.

David C. Brennan, Esq.

Attorneys for Delaware County

Dated: Albany, New York

October 22, 2013

TO: Service List by the Commission

# EXHIBIT A

**Paul De Andrea, P.E.**

**October 18, 2013**

195 Main Street  
Franklin, NY 13775  
(607) 829-8345 (h); (607) 434-0710 (c)  
pldeandrea@citlink.net

**Registered Professional Engineer – State of New York (1980 to present)**

## **Objective**

Seeking a responsible position in electrical power engineering in the electric utility, consulting engineering or industrial sector where my experience, education and technical interests may be utilized.

## **Work Experience**

### Delaware County Electric Cooperative (DCEC)

#### **Engineering Manager (2008 to present)**

Responsible for providing engineering support for electric distribution plant, substation plant, system protection and control equipment and distributed generation plant operations. Responsible for technical project management and reporting of a system wide AMI upgrade co-funded by U.S. D.O.E., NYSERDA and DCEC.

### New York State Electric and Gas Corporation (NYSEG)

#### **Regional Manager – Substation Operations (2005 to 2008)**

Responsible for substation operations in five operating divisions for NYSEG. Duties include planning, directing, technical supervision, system protection oversight and budgeting for substation operations in voltage ranges from 2.4 kV to 345 kV. The department was responsible for operation, testing, construction and maintenance of 195 substations.

#### **Manager – Technical Operations (2000 to 2005)**

Responsible for substation operations for the Oneonta division for NYSEG. Duties included planning, directing and technical supervision for the operation, system protection, testing, maintenance and construction at 68 substations in the Oneonta division, ranging in voltage from 2.4 kV to 345 kV. One refurbishment project included a fully rated +/- 300 MVAR facts device (SVC).

#### **Account Manager (1993 to 2000)**

Responsible for providing customer service and consulting services to large power users in the Oneonta division of NYSEG. Duties included, performing technical studies, applying filed tariffs, developing energy analyses, power quality problem resolution and consulting services in the protection, control and utilization of electric power.

#### **Project Manager – IPP Interconnects (1992)**

Responsible for technical and contractual project management for the interconnection of independent power producers on the NYSEG system on a corporate wide basis. Projects ranged in size and scope from the kW range (solar



PV based) to 175 MW (natural gas fired, combined cycle utilizing combustion turbines, a waste heat recovery steam generator and a steam turbine/generator).

**Market Services Manager (1988 to 1992)**

Responsible for planning, directing and controlling a group of professionals that conducted customer service activities for all classes of customers in the Oneonta division of NYSEG.

Developed and provided instructional classes in electrical circuit analysis and power system fundamentals for advancing employees.

**Supervising Engineer (1982 to 1988)**

Responsible for planning and directing a small group of technical specialist that provided customer service assistance to commercial, industrial and agricultural customers in NYSEG's Oneonta division.

Developed and provided instructional classes in electrical circuit analysis and power system fundamentals for advancing employees.

**Energy Engineer (1976 to 1982)**

Responsible for providing customer service and consulting services in effective power utilization and power quality to commercial and industrial customers in NYSEG's Oneonta division.

**Borden Chemical Division – Adhesives and Resins**

**Electrical Engineer – Plant Engineering (1975)**

Responsible for analysis, planning and documentation of the electric power system and energy utilization at Borden Chemical, a medium sized chemical plant in Bainbridge, NY.

**Education**

MSEE (electric power emphasis) (2000 to 2005)

Kansas State University

Manhattan, Kansas

BSEE (with Distinction) (1971 to 1975)

Worcester Polytechnic Institute

Worcester, Massachusetts

Power Technologies, Inc. (Schenectady, New York)

Power Circuit Analysis (1994)

Industrial Power System Engineering (1993)

General Electric – Installation and Service Engineering

Industrial Power System Engineering (1979)

Power System Protection (1980)

**Publications**

Co-authored an IEEE paper which was selected for publication in the Transactions on Industry Applications, May/ June 1999. The paper was presented to the Pulp and Paper Industry Conference in Portland, Maine in June, 1998.

**Technical and Professional Memberships**

IEEE Member (1973 to present) (Power and Energy Society; Industry Applications Society)  
New York State Society of Professional Engineers  
Tau Beta Pi (1975 to present); Eta Kappa Nu (1975 to present)

**Community Activities**

Board of Trustees – Village of Franklin, NY (2003 to present)

**Volunteer Experience**

Provided engineering services for upgrade of community pool in Franklin, NY  
Area Mathcounts scoring coordinator  
Former member, Executive Board, Otschodela Council, Boy Scouts of America

**Interest and Hobbies**

Family, Amateur Radio (1969 to present), mountain hiking, running, marathon canoeing