NEXTera®
ENERGY

September 29, 2018

Kenneth A. Walz
CREATE Center
Madison Area Technical College
1710 Anderson Street
Madison, Wisconsin 53704

Dear Dr. Walz,

I serve on the Indian River State College Electric Power Technology advisory board. I am a Supervisory Control and Data Acquisition (SCADA) subject matter expert with NextEra Energy. At IRSC advisory board meetings and working group meetings, I stressed the importance of advancing SCADA training. I am pleased to commit support to the Supervisory Controls and Data Acquisition Project proposed by CREATE and RCNET.

Technicians having SCADA knowledge and skills are critical for the renewable energy sector and for electrical grid operations. Rapid growth in the prevalence of SCADA systems is creating a challenge for industry and academia alike to keep up with advancing technology. The proposed CREATE SCADA project has the potential to provide valuable SCADA resources for the renewable energy sector. The RCNET and CREATE centers offer established platforms for developing the industry approved curriculum, providing the needed professional development and broadly sharing these resources with the larger community of two-year colleges.

SCADA is an important component in the efficient operation and maintenance of renewable energy sites. SCADA supports condition based maintenance- maintenance performed after one or more indicators show that equipment is going to fail or that equipment performance is deteriorating. Effective use of SCADA results in attention to required engagement, minimizing spare parts cost, system downtime and time spent on maintenance.

NextEra Energy is building solar energy fields on the campuses of Pueblo Community College and Southwest Indian Polytechnic Institute. I serve as lead SCADA subject matter expert on those projects. The solar sites will be dynamic learning labs for training the technicians needed to build, operate and maintain solar energy sites. PCC and SIPI are part of the proposed CREATE SCADA project. Data from the PCC solar energy fields will advance the CREATE SCADA network.

I am pleased to support this project as a technical expert, and look forward to working with you to ensure its success.

Sincerely,

Roger Whan
Technical Services Specialists

October 2, 2018

Dr. Kenneth Walz
Professor
University of Wisconsin - Madison
Madison, Wisconsin

Dear Dr. Walz:

NextEra Energy (NEE) is the largest generator of renewable energy in the world and generates more electricity than any other electric utility in the Unites States. NEE is pleased to endorse and support the National Science Foundation proposal entitled Supervisory Controls and Data Acquisition (SCADA) Project proposed by CREATE and RCNET.

NEE is excited to collaborate with the Center for Renewable Energy Advanced Technological Education (CREATE) in this cutting edge supervisory control and data acquisition platform. This unprecedented collaboration between industry, colleges and universities with advance technical skills and drive innovation. Colleges with wind and/or solar energy production infrastructure will provide "data points." The data points, from across the country, will be interconnected by a *supervisory controls and data acquisition* platform. This diversity of data presents opportunity for experiential training and technological advancement.

The SCADA project's comprehensive distribution control system will provide near real time data. Students will be able to conduct research on big data framework and associated machine learning / deep learning algorithms. Students will analyze data to build near real time predictive analytics system for the condition based maintenance of renewable energy equipment. The infrastructure will be operated and maintained by students presenting a "living lab" for experiential learning. This hands on training is responsive to industries need for well-educated and highly skilled energy professionals.

NEE believes that the project's predictive analytics and hands on training attributes will result in quantifiable quality improvement. We enthusiastically support this project. NEE commits to providing subject matter experts for curriculum development, train the trainer exercises, as well as installation, operation and maintenance of the SCADA system. Please let us know if you need any additional information. You may contact me directly at (561) 315-2284 or via email - James.Auld@FPL.com

Sincerely,

James H. Auld, J.D.
Director of External Training initiatives

NextEra Energy, Inc.

700 Universe Boulevard, Juno Beach, FL 33408

October 1, 2018

Kevin Cooper
RCNET
Indian River State College
3209 Virginia Avenue
Fort Pierce, FL 34981

Dear Dr. Cooper:

Florida Power & Light Company is the third-largest electric utility in the United States, serving approximately 4.9 million customer accounts or an estimated 10 million people across nearly half of the state of Florida. FPL is pleased to endorse and support the National Science Foundation proposal entitled Supervisory Controls and Data Acquisition (SCADA) Project proposed by CREATE and RCNET.

FPL has a long history of collaborating with RCNET and looks forward to supporting CREATE and RCNET in this cutting edge supervisory control and data acquisition platform. This project will advance technical skills and drive innovation. Headquartered at Indian River State College, RCNET and FPL are working with Florida International University instructors and students to develop the prototype SCADA platform that will ultimately interconnect with colleges across the country.

The SCADA project's comprehensive distribution control system will provide near real time data. Students will be able to conduct research on big data framework and associated machine learning / deep learning algorithms. Students will analyze data to build near real time predictive analytics system for the condition based maintenance of renewable energy equipment. The infrastructure will be operated and maintained by students presenting a "living lab" for experiential learning. This hands on training is responsive to industries need for well-educated and highly skilled energy professionals.

I will serve as lead coordinator ensuring FPL subject matter experts are available to support the project. FPL believes that the project's predictive analytics and hands on training attributes will result in quantifiable quality improvement. FPL enthusiastically supports this project. Please let me know if you need any additional information from our end. You may contact me directly at (561) 315-2284 or via email - James.Auld@FPL.com

Sincerely,

James H. Auld, J.D.
Director of External Training initiatives

Florida Power & Light Company

700 Universe Boulevard, Juno Beach, FL 33408