

VILLAGE OF CHATHAM, ILLINOIS

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ORDINANCE NO. 12 - 40

ORDINANCE AUTHORIZING THE MANAGER TO EXECUTE  
CONSULTING SERVICES PROPOSAL OF QUANTA TECHNOLOGY LLC  
FOR ELECTRIC RELIABILITY COMPLIANCE SERVICES

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ADOPTED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF  
CHATHAM, ILLINOIS THIS 23<sup>RD</sup> DAY OF OCTOBER, 2012

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Published in pamphlet form by the authority of the President and  
Board of Trustees of the Village of Chatham, Sangamon County,  
Illinois, this 23<sup>rd</sup> day of October, 2012.

ORDINANCE 12 - 40

ORDINANCE AUTHORIZING THE MANAGER TO EXECUTE  
CONSULTING SERVICES PROPOSAL OF QUANTA TECHNOLOGY LLC  
FOR ELECTRIC RELIABILITY COMPLIANCE SERVICES

**WHEREAS**, the Federal Energy Regulatory Commission has approved and established North American Electric Reliability Corporation ("NERC") as the Electric Reliability Organization under Section 215 of the Federal Power Act to ensure the reliability of the North American bulk power system, and NERC has established Reliability Standards for which compliance is mandatory to utilities that own, operate or use the transmission grid and meet certain minimum registration criteria; and

**WHEREAS**, the Village of Chatham (the "Village" or "Chatham"), through the ownership and operation of its electric distribution system, its interconnection with the 138 kV transmission line No. 34 of the City of Springfield CWLP, and the supply of electricity to the Village over those facilities for sale to and use by the citizens of the Village, has met, or will in the future meet, the minimum registration criteria for registration with NERC and mandatory compliance with applicable Reliability Standards; and

**WHEREAS**, Chatham requires the services of an experienced third-party consultant in connection with the development of practices and policies required for compliance with the applicable Reliability Standards prior to its official registration with NERC; and

**WHEREAS**, Quanta Technology LLC ("Quanta"), is a consulting firm that possesses substantial experience and expertise in reliability and NERC compliance matters, with professionals available to assist Chatham that have experience not only as former employees of NERC but directly with the Chatham electric utility; and

**WHEREAS**, Quanta has submitted a Consulting Services Proposal to perform the necessary services to develop processes and procedures for Chatham to implement in connection with NERC registration within the SERC region of NERC, and to ensure Chatham has a well-defined internal compliance program with all of the processes, procedures, and training in place to be in compliance with the applicable standards prior to SERC/NERC registration; and

**WHEREAS**, the Administrative Committee of the Village Board has recommended approval of the Consulting Services Proposal of Quanta Technology LLC for electric reliability compliance services.

**NOW THEREFORE**, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF CHATHAM, SANGAMON COUNTY, ILLINOIS:

**Section 1.** The President and Board of Trustees of the Village of Chatham hereby accept and approve the Consulting Services Proposal of Quanta Technology LLC for electric reliability compliance services.

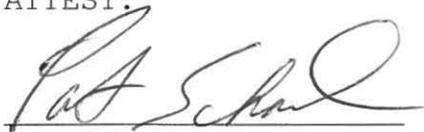
**Section 2.** The Village Manager is hereby authorized and empowered to execute the Consulting Services Proposal of Quanta Technology LLC, a copy of which is attached hereto and incorporated herein.

**Section 3.** This Ordinance shall take effect immediately upon its passage and approval as provided by law.

ADOPTED THIS 23<sup>RD</sup> DAY OF OCTOBER, 2012

  
Thomas S. Gray, President

ATTEST:

  
Pat Schad, Clerk

APPROVED this 23<sup>rd</sup> day of October, 2012

AYES: 6 HERR MAU BOYLE HOLDEN KAVANAGH SCHATTEMAN

NAYS: 0

ABSENT: 0



**ORDINANCE CERTIFICATE**

STATE OF ILLINOIS     )  
  )  SS.  
COUNTY OF SANGAMON    )

I, the undersigned, do hereby certify that I am the duly qualified and acting Village Clerk of the Village of Chatham, Sangamon County, Illinois.

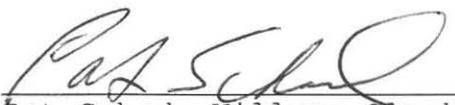
I do further certify that the Ordinance attached hereto is a full, true, and exact copy of Ordinance No. 12 -     , adopted by the President and Board of Trustees of said Village on the 23<sup>rd</sup> day of October, 2012, said Ordinance being entitled:

ORDINANCE AUTHORIZING THE MANAGER TO EXECUTE  
CONSULTING SERVICES PROPOSAL OF QUANTA TECHNOLOGY LLC  
FOR ELECTRIC RELIABILITY COMPLIANCE SERVICES

I do further certify that prior to the making of this certificate, the said Ordinance was spread at length upon the permanent records of said Village, where it now appears and remains.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of said Village this 23<sup>rd</sup> day of October, 2012.



  
Pat Schad, Village Clerk



## **Summary**

Quanta Technology is pleased to submit a price quote for the project described below.

Provide services to develop processes and procedures for the Village of Chatham for registration as a Transmission Owner (TO) within the SERC region of NERC. This effort will ensure the Village of Chatham has a well defined internal compliance program with all of the processes, procedures, and training in place to be in compliance with the applicable standards prior to SERC/NERC registration. As we understand it, the actual contract/PO for these services would be between the Village of Chatham and Quanta. This proposal assumes that City Water Light and Power of Springfield is the Transmission Operator for the 138 kV line, circuit breakers and switches at the Chatham Main and Chatham Independence substations.

Additionally, Quanta Technology will review the current agreements in place between the Village of Chatham and Springfield, Illinois' City Water Light and Power (CWLP) to identify what services are provided to meet the requirements of the standards (protective relay maintenance and testing, etc.) and make recommendations regarding any additional services necessary either from CWLP or an outside contractor.

Based on the above developed program, processes, and procedures, Quanta Technology will develop and provide the initial awareness and operational training for Chatham's internal compliance program including documentation and recordkeeping requirements, etc.

Part 2 - Scope of work and cost for on-going NERC compliance support services needed by Village of Chatham to maintain compliance with reliability standards applicable to the TO function once IMEA/Chatham is registered as a TO. Again, the actual contract/PO for these services would likely be between the Village of Chatham and Quanta/sub-contractor.

## **Project**

Quanta Technology will perform a review of the Chatham facilities anticipated to fall within the Transmission Owner registration as well as the agreements in place with CWLP. Included in this scope will be a draft Internal Compliance Program that will delineate the management responsibilities, standard specific Subject Matter Experts, type and accumulation of evidence of compliance, as well as training, self evaluations, management of potential violations, internal controls, and updates to applicable standards and requirements. Based upon the review of the facilities and applicable reliability standards, Quanta Technology will develop processes and procedures to enable compliance with the applicable TO reliability standards. The procedures will be developed to address the currently approved NERC Reliability Standards, and will take into account current NERC Compliance Application Notices, NERC Compliance Analysis Reports, and applicable SERC Supplements addressing any regional specific guidance and recommendations.



**Scope –Transmission Owner Applicable Standards<sup>1</sup>**

<b>Number of Standards</b>	<b>Description of Standard</b>	<b>Requires Written Procedure?</b>
<b>1</b>	<b>CIP-002-3 Cyber Security – Critical Cyber Asset Identification</b>	<b>By IMEA</b>
<b>2</b>	<b>FAC-001-0 Facility Connection Requirements</b>	<b>Yes</b>
<b>3</b>	<b>FAC-002-1 Coordination of Plans For New Generation, Transmission, and End-User Facilities</b>	<b>No</b>
<b>4</b>	<b>FAC-008-1 Facility Ratings Methodology</b>	<b>Yes</b>
<b>5</b>	<b>FAC-009-1 Establish and Communicate Facility Ratings</b>	<b>By IMEA</b>
<b>6</b>	<b>IRO-010-1a Reliability Coordinator Data Specification and Collection</b>	<b>By IMEA</b>
<b>7</b>	<b>MOD-010-0 Steady-State Data for Modeling and Simulation of the Interconnected Transmission System</b>	<b>By IMEA</b>
<b>8</b>	<b>MOD-012-0 Dynamics Data for Modeling and Simulation of the Interconnected Transmission System</b>	<b>By IMEA</b>
<b>9</b>	<b>PRC-004-2a Analysis and Mitigation of Transmission and Generation Protection System Misoperations</b>	<b>Yes</b>
<b>10</b>	<b>PRC-005-1b Transmission and Generation Protection System Maintenance and Testing</b>	<b>Yes</b>

<sup>1</sup> This list assumes no Critical Assets, Special Protections Schemes, Underfrequency relaying, Nuclear offsite power requirements, or Disturbance Monitoring Equipment are within the facility scope.



### **Project Schedule and Milestones**

Part I – Quanta Technology will develop and deliver the relevant procedures to enable compliance with the TO applicable reliability standards by December 31, 2012 or other agreed upon date.

Kick off Meeting – introduction of team, summary of data to be submitted to Quanta (On-site)	As mutually agreeable and may include meeting with CWLP
Delivery of associated facility drawings and equipment list to Quanta	Two weeks after award
First draft of procedures submitted for review	Four weeks after kick-off meeting
Comments and revisions addressed	Two weeks after first draft
Final procedures delivered	Two weeks after comments provided
Initial Training (On-site)	As agreed upon

### **Proposed Project Team**

Quanta Technology’s project team is composed of experts who have worked together previously on similar projects. Acting as Project Lead is David Hilt, Vice President of Transmission. Assisting David is James Stanton, Principal Advisor, Regulatory Services.

### **Pricing and Terms**

Quanta Technology offers to execute and complete the tasks described in the Project Part I section above for a fixed price of \$16,800.00 plus travel expenses. This price includes an initial on-site visit and meeting with Chatam and IMEA and separately with CWLP personnel as well as a one-day training session for key Chatham personnel regarding implementation of the procedures and the requirements necessary to demonstrate compliance with the NERC reliability standards.



**Consulting  
Services  
Proposal  
Quanta Technology  
September 18, 2012**

**Prepared For:** Illinois Municipal Electric Agency (IMEA)

**Prepared By:** Quanta Technology, LLC  
A Division of Quanta Services (NYSE:PWR)

4020 Westchase Boulevard, Suite 300  
Raleigh, NC 27607

**Contact(s):** David W. Hilt  
[dhilt@quanta-technology.com](mailto:dhilt@quanta-technology.com)  
(618) 751-4559



**CONFIDENTIAL/PROPRIETARY:** This document contains trade secrets and/or proprietary, commercial, or financial information not generally available to the public. It is considered privileged and proprietary to the Offeror, and is submitted by Quanta Technology LLC. in confidence with the understanding that its contents are specifically exempted from disclosure under the Freedom of Information Act [5 USC Section 552 (b) (4)] and shall not be disclosed by the recipient [whether it be Government (local, state, federal, or foreign), private industry, or non-profit organization] and shall not be duplicated, used, or disclosed, in whole or in part, for any purpose except to the extent in which portions of the information contained in this document are required to permit evaluation of this document, without the expressed written consent of the Offeror. If a contract is awarded to this Offeror as a result of, or in connection with, the submission of this data, the right to duplicate, use, or disclose the data is granted to the extent provided in the contract.



Travel, lodging, and materials costs will be billed at actual cost plus 10%

**Travel Time:**

For every one hour of project-related travel time, Chatham will be billed one half hour of consulting time up to eight hours of travel per day (four hours billed). If the consultant is performing project work during travel, this time will be treated as normal project work and will not be billed separately as travel time.

**Payment Schedule**

Billing will be based on an initial 10% upon completion of the project kick-off meeting and then on a monthly basis and will include expenses incurred during the previous month, all net 30 days. The quotation is exclusive of taxes, which is the sole responsibility of the customer.

**Expiration Date**

This offer is valid through October 30, 2012. For information on extensions of the offer, contact David W. Hilt at [dhilt@quanta-technology.com](mailto:dhilt@quanta-technology.com) or at 618-751-4559.

**4.1 Terms and Conditions**

This project is offered under Quanta Technology's standard Terms and Conditions, attached.

Accepted by \_\_\_\_\_

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date



## Attachment 1 – Terms and Conditions

Following are Quanta Technology's standard terms and conditions for a stand alone project.

This Service Agreement (“**Agreement**”) is made by and between Quanta Technology LLC, a Delaware limited liability company, with a place of business at 4020 Westchase Boulevard, Suite 300, Raleigh, North Carolina 27607 (“**Quanta**”), and \_\_\_\_\_, a \_\_\_\_\_ corporation (“**Customer**”), as of \_\_\_\_\_, 200\_, (“**Effective Date**”). Quanta and Customer (each a "**Party**" and collectively, the "**Parties**"), in consideration of the mutual promises contained in this Agreement, and intending to be legally bound, agree as follows.

1. **Services.** Quanta will perform services (the “Services”) for Customer, and provide the Deliverables as specified in the statements of work (each an “SOW”) between Quanta and Customer, which are hereby incorporated into this Agreement. The SOW describes the Services to be performed; time frames for the project (“Schedule”), if applicable; the Deliverables; the scoping assumptions used to estimate the effort (“Scope and Assumptions”); and the Budget for the Services. In the event of a conflict between this Agreement and a SOW, the provisions of this Agreement will take precedence. Any orders, change orders, or changes to the SOW are required to be in writing and are subject to acceptance by Quanta.
2. **Contract Price and Payment.** Quanta shall submit an invoice to Customer for the Services in accordance with the SOW and Customer shall pay the entire sum due with respect to such invoice within 30 calendar days from the invoice date. An interest charge of 1.5% per month shall be applied to any overdue balance. Published prices and discounts are for information only and shall not be construed as a quotation or offer. They are subject to change without notice. Published prices and discounts constitute no part of the agreement between Quanta and Customer.
  - 2.1. **Taxes.** The fees and any other amounts payable by Customer to Quanta under this Agreement do not include any taxes of any jurisdiction that may be assessed or imposed upon any services provided under this Agreement, or otherwise assessed or imposed in connection with the transactions contemplated by this Agreement, including without limitation, sales, use, excise, value added, personal property, export, import, and withholding taxes, excluding only taxes based upon Quanta's net income. Customer shall directly pay any such taxes assessed against it, and Customer shall promptly reimburse Quanta for any such taxes payable or collectable by Quanta.
3. **Indemnification.**
  - 3.1. **Indemnification.** Customer assumes the sole responsibility for the selection of the Deliverables to achieve Customer's intended results, the use of the Deliverables and Services provided by Quanta, and the results attained from such selection and use. Customer shall defend Quanta and its affiliates, and the directors, officers, employees,



independent contractors, and agents of Quanta and its affiliates (“Quanta-Indemnities”), at Customer’s sole cost and expense, against any and all Claims against Quanta-Indemnities arising from or related to Customer’s selection or use of such Deliverables or Services whether or not such use is in accordance with this Agreement and shall indemnify and hold Quanta-Indemnities harmless from any and all judgments, losses, liabilities, damages, costs, and expenses (including without limitation, reasonable attorney's fees and attorney's disbursements) arising out of or incurred in connection with such Claims. Customer shall have no liability under this Section for any Claim of which Quanta does not give notice to Customer promptly after Quanta learns of such Claim. Customer shall have the right to control the defense and settlement of any Claims for which Customer is obligated to defend, but Quanta shall have the right to participate in such Claims at its own cost and expense.

4. **Confidentiality.** Previously developed reports, computer programs, recommendations, specifications, drawings, technical data, sketches and all the information used by Quanta in connection with its performance under this Agreement shall remain the exclusive property of the Quanta. Performance under this Agreement shall not convey to Customer any right to use (either temporarily or permanently) such previously developed materials unless specifically provided in writing as part of this Agreement. The reports, computer programs, recommendations, specifications, drawings, technical data, sketches and all other information developed and furnished by Quanta in connection with its performance under this Agreement shall remain the exclusive property of Quanta, subject to Customer's permanent right to use same for its own purposes within Customer's company.
5. **Limitation of Liability.** Quanta shall not be liable for or in breach of any provision of this Agreement arising from any failure of Quanta to perform its obligations under this Agreement or infringement or any other matter to the extent attributable to any unauthorized or improper use or modification of the Deliverables, or any breach of this Agreement by Customer. Under no circumstances shall Quanta be liable to Customer or any other person for lost revenues, lost profits, loss of business, or any indirect, incidental, special, punitive, or consequential damages of any nature, regardless of legal theory and whether or not foreseeable, even if the exclusive remedies provided by this Agreement fail of their essential purpose and even if either Party has been advised of the possibility or probability of such damages. Quanta's total liability under this Agreement shall under no circumstances exceed the fees actually paid by Customer to Quanta under this Agreement.

#### 6. **Term and Termination.**

6.1. **Term.** The term of this Agreement shall commence on the Effective Date and continue in perpetuity unless terminated in accordance with this Agreement.

If an order is canceled by Customer, Customer will be liable for payment of the Contract Price to the extent of actual labor, materials, and facilities utilized by Quanta, through and including the date of cancellation, in performing or preparing to perform Services for



Customer and for all other expenses (both internal and external) incurred by Quanta in demobilizing or otherwise discontinuing the performance of Services.

7. **Force Majeure.** Neither Party shall be liable for any failure of or delay in the performance of this Agreement for the period that such failure or delay is due to acts of God, public enemy, civil war, strikes or labor disputes, or any other cause beyond the Party's reasonable and actual control. Each Party agrees to notify the other Party promptly of the occurrence of any such cause and to carry out this Agreement as promptly as practicable after such cause is terminated.



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**LEADERSHIP**

**Dave Hilt, PE**  
Vice President -  
Transmission



[Contact Dave](#)

**Don Morrow, MBA, PE**  
Senior Vice  
President -  
Advisory Services



[Contact Don](#)

**Boza Avramovic**  
Control Centers  
and EMS



[Contact Boza](#)

**Tom Gentile, PE**  
Vice President,  
Transmission  
East Region



[Contact Tom](#)

**Len Januzik**  
Transmission  
Markets



[Contact Len](#)

**Muhidin (Dino)  
Lelic, PhD**  
Project  
Management



[Contact Dino](#)

**Hamid  
Maghdan**  
Economic  
Analysis



[Contact Hamid](#)

**Ali Mirhadi**  
Principal  
Advisor



[Contact Ali](#)

**Ed Pfeiffer**  
Transmission  
Planning



[Contact Ed](#)

**Alexander W.  
Schneider, Jr.**  
Principal  
Advisor



[Contact  
Alexander](#)



**TRANSMISSION PLANNING AND ENGINEERING**

Quanta Technology complements the energy utility internal resources with industry leading expertise and experience to ensure ERO compliance and system infrastructure optimization for expansion and capacity utilization, manage the increasing operations complexities, and maintain operational integrity through loss of institutional knowledge via staff attrition. Our experts can provide your organization with a range of solutions from expert and thorough analysis for your most complicated problems to the efficient execution of routine studies. We can tailor our services to meet your specific objectives.

Our service offerings include:

**STRATEGIC PLANNING** – Assess your infrastructure needs in a 10-year planning horizon, including long-term capital planning and proposed existing and future operating procedures; Provide strategic recommendations to reduce capital costs of your transmission system

**RISK ASSESSMENT** – Analyze existing transmission constraints and impacts of future upgrades; Develop strategic recommendations for transmission deliverability from any existing or planned resource

**WIDE AREA MONITORING, PROTECTION & CONTROL (WAMPAC)** – Engineer synchrophasor and other wide area measurement systems for enhancing transmission reliability and operating efficiency; Support WAMPAC system planning, system design and specification development, implementation, applications development and support, and identification of best practices

**INTERCONNECTION STUDIES** – Examine generation assets and analyze their interconnection status; perform transmission interconnection studies at each plant, analyze the history of transmission service requests, transactions on those assets, and transmission line relief actions to develop recommendations for system optimality and cost minimization

**ERO COMPLIANCE** – Use applicable national and regional requirements to identify critical infrastructure; Perform gap analysis to develop compliance roadmap, develop the necessary processes and documentation, and support implementation. Support pre-audit reviews and due diligence self audits; Provide other tailored services to meet your ERO compliance needs

**PROCESS MANAGEMENT & TRAINING** – Develop a process mapping guide with roles and responsibilities, precautions and limitation, equipment handling, procedures and documentation; Provide customized engineering training

**LOAD GROWTH FORECASTING & WEATHER DERIVATIVES** – Build short and long term load forecast models using decision support tools such as Crystal Ball and Monte Carlo models; Develop financial model to help manage exposure to weather risks

**Need Expert Advice of Answers?**

We promise to get back to you as quickly as possible.

**Question \***

**Your Name \***

**Your Email Address \***

**RELIABILITY STUDIES** – Assess generation system adequacy, determine on average how long available capacity is likely to fall short of demand, and estimate the likelihood and impact of failure on the Loss of Load Expectation (LOLE) to make recommendations on system reliability improvements

**DISTRIBUTION SIDE DEMAND RESPONSE** – Analyze and forecast the utility's customer demand response; Based on forecasts, provide advice on device and facility coordination for bulk system VAR optimization and generator re-dispatch to improve energy efficiency and system reliability

**ECONOMIC ANALYSIS/EXPERT WITNESS TESTIMONY** – Prepare expert witness testimony to justify the economic benefits of capital and maintenance planning costs and support similar issues



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LEADERSHIP

Gerry Adamski  
Compliance and  
System  
Operations

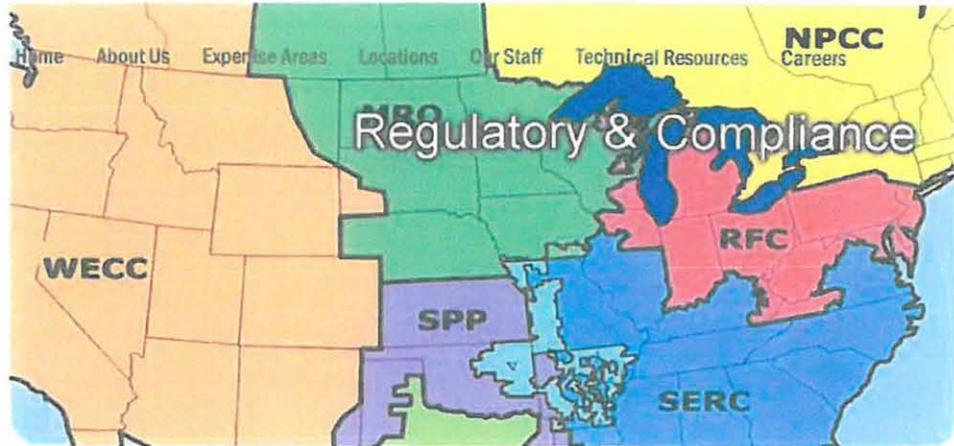


Contact Gerry

Jim Stanton  
Compliance



Contact Jim



REGULATORY SUPPORT

Quanta Technology stands behind delivered work products and will provide support as necessary to utilities for regulatory filings and resolution of disputes/litigation between energy market stakeholders. Our consultants have successfully supported the regulatory filings and rate cases involving energy delivery infrastructure improvements, reliability improvements and advanced metering and demand response infrastructures. We have also provided expert witness support regarding power system outage analyses.

**BUSINESS CASE DOCUMENTATION** – Develop detailed lifecycle costs and benefits, including benchmarking and documentation. Support revenue requirement calculations as necessary.

**FILING APPLICATION PREPARATION** – Help write working papers for technology selection and dependencies, project portfolios, implementation plan, costs, benefits, project management plan, risk assessment and mitigation, etc. Help designated witnesses of the utility prepare for their testimonies by contributing to the writing and simulating question and answer sessions.

**EXPERT TESTIMONIES** – Provide independent expert written and oral testimonies in support of regulatory hearings, mandatory investigations, and rate cases involving infrastructure upgrade and reliability improvement spending, smart grid/smart metering investments, demand response programs. Help respond to intervener and regulatory staff rebuttals.

**REGULATORY REPORTING** – Provide independent expert written and oral testimonies including support of reliability audits, storm assessments, outage analyses and operating safety events. Help respond to requests by customers, customer advocacy groups, and regulatory staff.

Need Expert Advice or Answers?

We promise to get back to you as quickly as possible.

Question \*

Your Name \*

Your Email Address \*

Submit



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## Dave Hilt, PE

David W. Hilt, P.E., *Vice President - Transmission*, has over 33 years of experience in electric power system engineering and regulatory activities. He has been a manager responsible for the design, specification, and construction of electric substations from distribution to EHV including protective relaying. He has also managed transmission and resource planning activities for a major Midwestern utility providing expert testimony before FERC and state regulators. Mr. Hilt has directed the development and installation of state estimation and OASIS systems for a Midwestern Reliability Coordination Center. As a Vice President at NERC, he led the development of the compliance monitoring and enforcement program for the bulk-power system reliability standards in North America working closely with the industry, FERC, and Canadian regulatory authorities. He also developed audit programs and event analysis and investigation processes. While at NERC he led the investigation of the August 2003 blackout in the Northeastern United States and Canada providing the technical input to the U.S. - Canada Power System Outage Task Force report.



### Areas of Expertise

- NERC Reliability Standards, compliance, and event analysis/investigation
- Regulatory interface, testimony, and support
- Bulk-power system planning, design, and operations
- Project development and management

### Experience and Background

- Over 33 years of industry experience
- Vice President, North American Electric Reliability Corp. 1999 – 2010
- Director, Mid-America Interconnected Network Inc. 1996 – 1999
- Various Management Positions, Central Illinois Public Service 1983 – 1996
- Design Engineer, Missouri Utilities Company 1978 – 1983

### Accomplishments and Industry Recognition

- Registered Professional Engineer in Missouri and Illinois
- IEEE senior member
- EPRI Innovators award recipient
- Published articles in several trade journal

### Education

- Bachelor of Science Electrical Engineering – Power Systems Focus – University of Missouri - Rolla – 1977

David Hilt can be contacted at [dhilt@quanta-technology.com](mailto:dhilt@quanta-technology.com)



Expertise in Energy T&D

## Jim Stanton

Mr. Stanton comes to Quanta Technology from SPS Consulting Group, a human services and energy focused where he was Executive Director of SPS Energy. He has over 25 years of progressively responsible experience in the electric power industry ranging from power plant operation, system operations, energy trading/risk management, electricity market design, to regulatory compliance. Mr. Stanton's most recent focus has been supporting clients in their procedural and operational efforts to comply with mandatory reliability standards.



### Areas of Expertise

- Power plant operations
- Grid operations
- Reliability standards development and compliance

### Experience and Background

- Number of years of experience in the electric power industry 25
- Executive Director – SPS Consulting Group 2
- Director - ICF International 2
- Director - Calpine 7
- Manager of Market Design - PG&E Energy Trading 5
- System Operator – Texas New Mexico Power 5

### Accomplishments and Industry Recognition

- NERC Certified System Operator - 1999
- Southwest Power Pool System Operator - 2000
- Charter member of the NERC Standards Committee
- Member of the NERC Compliance and Certification Committee
- Southwest Power Pool Board of Directors - 2002
- Contributing Editor – Power magazine

### Education

- BS Management – California Coast U. 1982

James Stanton can be contacted at [jstanton@quanta-technology.com](mailto:jstanton@quanta-technology.com)