

# Chuck Schoenberger

Senior Substation Engineer - LaBella ASSOCIATES PC

Lawrenceville, NJ - Email me on Indeed: [indeed.com/r/Chuck-Schoenberger/562763d96c3248ef](https://www.indeed.com/r/Chuck-Schoenberger/562763d96c3248ef)

## WORK EXPERIENCE

### Senior Substation Engineer

LaBella ASSOCIATES PC - May 2013 to Present

Protection and Control)

- Mr Schoenberger has been working as a Senior Substation Engineer under a PSA agreement that Labella Associates has with the Iberdrola Corporation for Substation modernization and upgrade projects in RG&E and NYSEG Transmission, Switching and Distribution substation facilities. He is responsible for leading and coordinating all protection and control aspects of the projects.

The projects involve installation of new substation control houses populated with modern Micro-processor based protection , control and automation(SCADA) equipment , replacement of power transformers, HV breakers, distribution switchgear and substation batteries and chargers.

He is responsible for preparation and final review and approval of the project detailed engineering documentation , which include , System Studies (short circuit and voltage profile using ASPEN software) , equipment dimensioning and cable sizing calculations , equipment procurement specifications , one lines, AC , DC schematics , communication schematics , substation control logic diagrams, protection and control panel/ rack layout and elevation drawings and wiring diagrams

He is responsible for preparation relay setting files( using SEL Acelerator and/or GE EnerVista software)

He serves as Lead commissioning engineer preparing the project commissioning plans which includes outage step packages , relay and equipment test procedures, primary and secondary blocking points for tagging , relay test scripts using Doble Pro Test software

He provides field supervision and technical support to relay test technicians and electricians performing relay and equipment acceptance testing

He provides substation design engineering training classes to members of the LaBella electrical design engineering group.

### Senior Substation Protection and Control Engineer

LaBella ASSOCIATES PC - Newark, NJ - February 2014 to December 2014

Newark NJ 2/14-12/14

- GE VFT /Con Ed Goethals 230kV Substation Upgrade - Under PSA agreement with Parsons Brinkerhoff Mr Schoenberger worked as a Senior Substation Protection and Control Engineer on the Goethals 230kV Substation Upgrade project. His duties included review of protection and control designs and technical field support for installation of outage step packages for construction and commissioning of a 230kV ring bus consisting four (4) 230kV Breakers and the associated protective relay, control and substation communication equipment.

## **Senior Substation Engineer**

RELAY & POWER SYSTEMS - Conshohocken, PA - July 2011 to April 2013

PSE&G - Multiple Substations- Under PSA agreement with Relay Power Systems he worked as Lead Commissioning Engineer on the North Brunswick Switch 230kV Breaker Replacement and Bennets Lane 230kV Transformer Replacement projects He also served as Lead Commissioning Engineer on the Bayonne Switch , Greenville and Madison Substations 26kV Line Protection SD Relay Replacement Projects.

- PSE&G - Multiple Substations- Under PSA agreement with Relay Power Systems he provided detailed technical support for the PSE&G 230kV System Programmed Upgrade Projects. His duties as a consultant for RPS have been working as relay protection and control engineer to developed Automation Protection and Control system relay rack, SCADA and ESOC hardware designs based on PSE&G standards for New Substation Control Houses. He provided on site technical supervision for the installation and commissioning of the Automation Protection and Control Equipment housed in the control houses which were supplied by RPS to PSE&G for the West Orange, Marion, Laurel, Ward, & New Dover 230kV System Programmed Upgrade Projects.

- Con Edison - East River, East 13th & Leonard St Substations- Under PSA agreement with Relay Power Systems he provided Project Engineering and Detailed Engineering support for the Con Ed project to retrofit the East River, East 13thSt and Leonard Street Substations with modern microprocessor relays and substation automation system. His duties as a consultant were to developed cut over installation packages , associated commissioning test plans and provide technical field support for the Con Ed in house construction and testing groups use to install and commission the new automation , protection , control and fiber optic network equipment supplied by RPS to Con Ed.

## **Senior Substation Engineer**

BAYONNE ENERGY CORPORATION - June 2010 to June 2011

Under PSA agreement with Bayonne Energy Corporation completed Project engineering, detailed engineering and provided extended technical field support for installation and test of the new SCADA/ Automation Protection and Control System for the Con Ed Gowanus 345kV Expansion Project.

## **Senior Substation Engineer**

CON EDISON /Lehigh Technical Services, NY - August 2001 to June 2011

Protection and Control)

Assigned under contract to Con Edison Central Engineering Controls Engineering Department as a Project Engineer. Responsible for project planning, budget, schedule, conceptual and detailed engineering for transmission line and substation automation and protection retrofit projects. List of major project assignments is provided below:

- Project: FERC/NERC PRC-002 -02 Reliability Standard Compliance Program for Disturbance Monitoring (DME) Retrofit of Con Ed Substation Facilities rated 200KV and above with Digital Fault Recorders and Voltage monitoring equipment to monitor parameters required to comply with FERC/NERC standards
- Project: East River 138kV/69kV Area Substation Automation and Protection System retrofit of large area substation with a microprocessor based automation system, to control and protect 69 & 138kV breakers, 138-69kV transformers, phase angle regulators, 69& 138kV feeders and buses. This includes all new micro-processor relaying, controls, alarms, new DC system, new communications equipment, a GE UR C30 relay fiber optic multiplexing system, new wiring from the field devices to the new yard C30 fiber optic remote terminal units.
- Project: 345kV Line Y94 Buchanan / Ramapo Retrofit Replacement of the existing blocking carrier line protection scheme with modern micro-processor based relays and communication equipment. (GE UR D60 Relay and RFL 9780 Carrier and Transmitter.)

- Project: Farragut 345kV Line Static Line Protection retrofit. Replacement of existing GE D60 & Carrier Scheme retrofit.
- Project: Millwood 345-138kV Transformers TA-1 & TA-2 Directional Neutral Grnd Protection Retrofit Replacement of existing electro mechanical direction neutral ground protection with GE F60 micro-processor relay
- Project: Ramapo 345kV Line 377, between Ramapo (Consolidated Edison) and Rock Tavern (Central Hudson) retrofit. Replacement of the Feeder 77 first line blocking carrier relay system and first line carrier transfer trip system at Ramapo substation with modern micro-processor based relays and communication equipment. Schweitzer numerical SEL-421-2 distance relay and Pulsar TCF-10B frequency shift carrier transceiver configured in an unblocking scheme. A GPS receiver kit is also required in order for the new relay to be time-synchronized. G. E. CT-51A/CR-51A carrier transfer trip system will be replaced by a Pulsar TCF-10B frequency shift carrier transfer trip transceiver.

### **Project Electrical Engineer**

Engineering & Design Services Inc - Midlothian, VA - February 1993 to August 2001

Assigned under contract to (ABB Power T&D/Generation Inc) as Project Electrical Engineer responsible for project planning, budget, schedule, conceptual and detailed engineering for turnkey contracts to supply, erect and commission HV switchyard, substations and generating station auxiliary power systems. List of US project assignments is provided below:

- Gilbert Energy Project 1x 270 MW GT24 w 500kV Switchyard & 5kV Substation
- Midlothian/Midlothian Extension 6 x 270 MW KA24-1 w 345kV Switchyard & 13.8-4.16kV substation
- Hays Energy Project 4 x 270 MW KA24-1 w 345kV Switchyard & 13.8-4.16kV substations
- Blackstone Energy Project 2 x 270 MW KA24-1 w 345kV Switchyard & 13.8-4.16kV substation
- Bellingham Energy Project 2 x 270 MW KA24-1 w 345kV Switchyard & 5kV substation.

### **Project Electrical Engineer**

PSE&G, NJ - February 1989 to February 1993

Assigned as Project Engineer/Sr Electrical Engineer in the power production and transmission depts. Engineering and construction group. Responsible for project planning, budget, schedule, conceptual engineering, detailed engineering, construction supervision and commissioning on HV switchyard, substation and power plant capital and maintenance projects.

- Burlington Unit 10 Re-powering  
140 million dollar capital project to modernize and return to service a 250MW combined cycle power plant. Electrical scope of work included 500kV switchyard expansion, new 60MVA 13.8kV walkin substation, new 20MVA 5kV walkin substation, new LV substations for auxiliary power system loads, new 500kV switchyard SCADA system, new plant distributive control system, new DC & UPS control power systems.
- Burlington Generating Station Unit 7, 8& 9 138kV switchyard 26kV substation and 13.8kV Auxiliary Power System Upgrade project 10 million dollar capital project involved switchyard retrofit of 138kV and 26kV switchyard control system to modern SCADA system, replacement of 26KV Oil Circuit breakers with modern vacuum interrupter breakers, consolidation of new station air compressors and other existing plant load on to new 13.8kV walkin substation.
- Kearny Generating Station 138kV Switchyard And 13.8kV Auxiliary Power System Upgrade project 10 million dollar capital project involved switchyard control system retrofit to modern SCADA System and installation of a new 40 MVA, 13.8kV walkin substation.

### **Plant Engineer/System Engineer**

PSE&G, NJ - October 1981 to February 1989

Nuclear Dept

Assigned to operations dept as plant electrical engineer for Salem Generating Station Units 1&2. (2x1000 MW Steam Turbine Generators driven by 2 Westinghouse Pressurized Water Reactors) As a requirement to hold this position successfully completed 10 month senior reactor operator training program. Responsible for planned and forced outage maintenance and testing of HV switchyard substation and plant auxiliary power systems and equipment. Supervised IBEW substation relay technicians, plant I&C technicians, maintenance electricians on equipment testing, trouble shooting and maintenance activities. Responsible for planning, budgeting and scheduling work orders which governed this work. Held this position for eight years before transferring to Engineering and Construction group PSE&G Newark Corporate headquarters.

**Assigned as Electrical Engineer Gulf States Utilities River Bend Station Unit**

Stone & Webster Engineering Corporation - 1980 to 1981

1 Nuclear Power Plant Project

**Assigned as Electrical Design Engineer Bethlehem Steel Shuichang Taconite Mining Project**

United Engineers Industrial Division - 1979 to 1980

Stone & Webster Engineering Corporation - 1976 to 1978

2 Nuclear Power Plant Project

**EDUCATION**

**B.S. in ELECTRICAL ENGINEERING**

DREXEL UNIVERSITY

**B.A. in EDUCATION/SCIENCE**

LA SALLE UNIVERSITY