

# ELECTRICAL POWER PRODUCTS, INC.

Manufacturers Representative

Charlie Gossage Jr.

Email: [cgoosejr@aol.com](mailto:cgoosejr@aol.com), Website: [www.elecpwrprod.com](http://www.elecpwrprod.com)  
Phone: 336-643-6722, Cell: 336-601-6600, Fax: 336-643-6588  
PO Box 591, Summerfield, NC 27358



Turnkey Substations: Full service high-voltage engineered systems provider. From engineering and design to procurement and construction, we take total responsibility for the management and coordination of your project.

Substation Structures; Dead Ends, Voltages to 765KV, A-frames, H-frames, Static Poles.  
Substation Equipment Supports; Buss & Switch Supports, Special Application Structures.  
Transmission Structures; Single Poles, H-frames, Wood-Equivalent Steel Poles



\* 5 – 38 kV Switchgear: Livefront & Deadfront Padmount, Primary Metering, Fused Sectionalizer, Metal Enclosed & Wall Mounted, Unit & Portable Substations, Vacuum Reclosers, Network Protectors, Custom Engineered Products.

\* Dry-Type & Cast Coil Transformers: 2.4 – 34.5 kV, 15 - 10,000 kVA, General Purpose, Padmounted, Unit Substation & H.V. Power, Vacuum Pressure Impregnated & Epoxy Shielded, NEMA TP-1, 2, 3 & Energy Star Rated



\* Transformers: Medium Power (10-40 MVA, 161 kV & Below), Small Power (225-10,000 kVA, 46 kV & Below), 3-Ph. Pad-Mount (45-10,000 kVA, 34.5 kV & Below), 1-Ph. Pad-Mount (5-500 kVA, 34.5 kV & Below), 1 & 3-Ph. Overhead, Submersible; Voltage Regulators (50-1665 Amps, 50-833 kVA, 2.5-19.92 kV); Junction Enclosures; Sectionalizing Equipment. Working in conjunction with Richardson Associates of NC, Inc.

Padmount, Secondary Unit Substation & Station Type Transformers:  
Oil Immersed, 75-7500 kVA, Primary thru 46 kV, Secondary thru 15 kV  
(Located in Medford, OR; formerly Areva/GEC Alstom/Balteau/Standard Trans.)



\* Kerite manufactures 5kV-138kV Power Cable. Millions of feet of Kerite cable have been installed in all types of environment with no known failures due to insulation degradation or weakness. Turnkey installation and field service are available.

Custom designed products or systems (packaged substations, distribution centers, switchgear & relay/control panels). Whether available space, adverse environmental conditions, the blending of new and used components, or an entirely new state-of-the-art system is required, SMC can meet your needs.



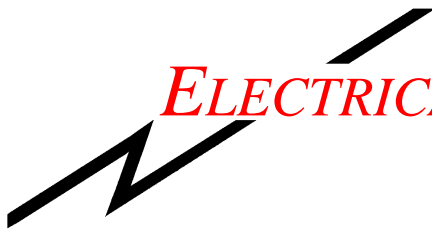
G&W ELECTRIC

\* Using SF6 & Solid Dielectric Technologies, G&W offers Padmount, Vault & Overhead Switchgear, Reclosers, and Automation Products. Current Limiting System Protection, Cable Accessories, and Junction Bars

\* 15-38kV SF6 Switches for Padmount, Poletop, Vault, Windfarm & Automation Applications. All switch designs can be automated. Automation options include automatic Transfer Controls and Distribution Automation schemes with digital or analog, AC and DC powered controllers.



**\* Note: We do not represent these companies directly to Electric Utilities in North Carolina**



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Battery Chargers (Utility, Marine, Stand-by Generation, Mining, Railroad, Aviation) Rectifiers, Battery Eliminators, Power Boards, Power Supplies, DC-DC Converters, DC Breaker Panels, DC Distribution Panels

Total Power Quality Solutions: Uninterruptible Power Supplies, Power Conditioners, Active Harmonic Filters, Power Factor Correction, Voltage Regulators, Variable Transformers & Test Sets



Variable Frequency Drives, Soft Starts, Molded Case Circuit Breakers, Starters & Contactors, Pump & HVAC Controls, PLCs, Pushbuttons, Terminal Blocks & Enclosures.

Medium Voltage Metal Enclosed Capacitors Assemblies, Harmonic Filtering, Rack and Pole Mounted Capacitors, Medium Voltage Surge Protection



Controllix Corporation



Industry leader in manufacturing pre-engineered metal buildings for the utility industry

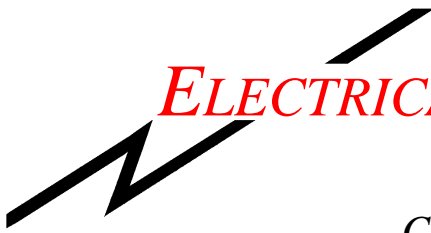
Polymer concrete & fiberglass boxes, vaults & pads; gel coated box pads for transformers & switchgear; primary sectionalizing cabinets, secondary pedestals; fiberglass & alum. insulated enclosures for backflow preventers & pumps; lightweight composite manhole covers, trench covers, roadplates, & shoring systems (**Windfarm, Institutional & Military Markets Only**)



Potential Equipment Transformers (PET), Capacitor Blocking Units, Constant Current Regulators and Capaciformers (PET with a coupling capacitor across the H1 and X1)

A Wide Variety of Products Designed to Indicate or Locate Faults on Electrical Utilities Overhead or Underground Distribution Circuits





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### Circuit Breakers

Dead Tank – 69 kV up to 550kV, 63kA, 4000A  
DT Series & HGF  
Live Tank – 69 kV up to 800kV, 63kA, 4000A  
GL Series  
Circuit Switchers – 69 kV up to 550kV, 40kA, 3000A  
GL Series

### Generator Circuit Breakers

In A 4000A up to 50000Amps  
Icc 50kA up to 275kA  
PKG, FKG1, FKG2

### Gas Insulated Switchgear

F35 69kV, 2KA, 40KA, 3150A Cont.  
B105 up to 300kV, 63kA, 4000A Cont  
T105 up to 362kV, 63kA, 4000A Cont.  
T155 up to 550kV, 63kA, 6300A Cont

### Disconnect Switches

Vertical Break - 72.5 - 800 kV  
Center Break - 72.5 - 550 kV  
VEE Center Break - 72.5 - 145 kV  
Double Side Break - 72.5 - 550 kV  
Semi-Pantograph. - 145 - 800 kV  
Full Pantograph - 123 - 1050 kV  
Knee Type - 245 - 800 kV  
Gounding Switches - 72.5 - 800 kV  
Ground Interrupter Switches -145 - 800 kV

### Primary Distribution

Distribution Circuit Breakers  
E0X 15-27kV, 2000A, 150kV BIL  
VOX 38kV, 2000A, 200kV BIL  
MV Metal-clad Air Insulated (PIX-A)  
5kV to 27 kV, up to 2500A Vacuum  
MV Gas-Insulated SWGR  
GHA up to 40.5kV, 2500 A, 31.5kA, 185KV BIL  
WS up to 36kV, 2000 A, 31.5kA, 185KV BIL  
WI up to 52 kV, 2500 A, 40 kA(3s)  
Load Break Switches PN-A & TRLF

### Power Electronics

HVDC Converter Stations  
FACTS Installations

### T&D Services & After Sales Service

Lifecycle Maintenance  
Spare Parts  
Training  
Network Consulting  
Turnkey Installations

### Power Transformers (to 800kV & 2000 MVA)

Auto Transformers  
GSU Transformers  
Special Transformers  
Series and Shunt Reactors

### Instrument Transformers

HV CT, CVT & Combined (69kV up to 800kV)  
15-69kV Outdoor / Indoor CT, VT, & Combined  
Low Voltage (600V, BCTs)  
SF6 Insulated Transformers

### Air Core Reactors

Line Traps & Tuners  
SC Current Limiting  
Neutral Ground  
Damping (Inrush)  
TCR (Thyristor Controlled)  
Shunt & Load Balancing  
Filter & Smoothing (Harmonics)  
ARC Furnace

### Condensor Bushings

PAO: Oil to air transformer bushing (ANSI)  
25 up to 765kV  
PNO: Oil to air transformer bushings (IEC)  
52 up to 1050kV  
PGFE: Oil to air generator bushings  
Rated voltage up to 36kV  
POBO: Oil to SF6 transformer bushings  
Rated voltage from 72.5 up to 1050kV  
PCTO: Oil to oil transformer bushings  
Rated voltage from 72.5 up to 1050kV  
PWO: air to air Through wall bushings  
Rated voltage from 72.5 up to 420kV  
PABS (SF6) air to SF6 GIS-GIL bushings  
Rated voltage from 72.5 up to 550kV

### Automation Products

Protection (MiCOM & Legacy Relays)  
Measurements

### Automation Systems

Market Management Software  
Large SCADA / EMS / DMS Software  
Substation Control Systems (EterraControl)

### Automation Support

**Note: We do not represent Areva directly to Electric Utilities**