



THE Breaker Buzz

Providing Electrical Solutions Worldwide VOL VII

OCTOBER 2014



Group CBS Acquires Conn.'s Electric Control Equipment Company

NEW ACQUISITION WILL BECOME PART OF ELECTRICAL SUPPLIER AND SERVICE COMPANY CBS NORTHEAST.

GROUP CBS, INC. (GROUPCBS.COM), with commercial interests in electrical supply, field service, and engineering throughout North America, is pleased to announce the acquisition of electrical equipment supplier and service provider Electric Control Equipment

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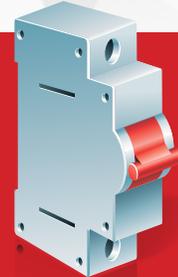
Circuit Breaker Sales NE Inc. Names John Namnoum General Manager

GROUP CBS, INC. (GROUPCBS.COM), with commercial interests in electrical supply, field service, and engineering throughout North America, is pleased to name John Namnoum general manager of the group's newest affiliate, Circuit Breaker Sales NE Inc. (CircuitBreakerSalesNE.com, Seymour, Conn.)

At his last position as a financial manager for a local manufacturer of electrical distribution equipment, Namnoum instituted a new job-costing system that improved service delivery and productivity while reducing change orders; initiated the company's first comprehensive employee review process; and reduced customer returns and improved billing transparency, which reduced outstanding commitments by 20%.

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GroupCBS.com



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THE VIEW FROM FLIGHT LEVEL 410

By *Finley Ledbetter*, CEO, Group CBS

Group CBS's Building Blocks for Success



SUCCESS ISN'T ABOUT LUCK. We have talked about the need for Quality People and to put in place the proper Tools and Systems. We know we need to have the Right Plans in place, and the dedication to follow them. We have to strive for Quality, which leads to Reliability in our products and services.

Now, to complete this message, I want to talk about the values we need to have in order to be the supplier and service company our clients want us to be. With these values, we can be the name in the market or the BRAND that people seek out when in need of electrical equipment and services.

First and always, *People are number one priority.* If you have the right people, the rest is easy. The right people with the right Tools and Systems have an advantage over their competitors that allows them to reach their goals.

Planning. Group CBS's plan is to let each GCBS company have its own plan. Individual companies not directed, told, or led in any one direction by GCBS results in buy-in and ownership at the company level.

Quality goes hand-in-hand with good people. A smart guy once told me you can't test in quality. You can have all the test gear and the best test procedure, but quality has to come from the shop floor and again, that gets back to good people.

Reliability is what you get when Good People have a Plan they believe in and

a concern for Quality! It is that simple.

The pyramid chart below shows our secret to success, proven by 30 years of outpacing the previous year in every way.

Now you can see what I have been talking about in the last four newsletters.

Now around the Group, Circuit Breaker Sales & Repair (CBSR) has completed its new warehouse expansion, and we hope to move in and add to our capabilities and on-hand inventory in Houston during the next year.

Vacuum Interrupters, Inc. (VII) has slated for release a new circuit breaker timer and power supply. What a cool "really ready to go to work for you" product. See it at vacuuminterruptertesting.com/circuit-breaker-timer.

Circuit Breaker Sales Northeast (CBSNE). What can I say? Our first four months of operations are all above plan and hitting on all eight cylinders from day one. It's a beauty to see. We are already searching for more space and more people. Look for us to add two more acquisitions before the next *Buzz*. These will double our platform in the Northeast and spring us into a leadership position in that market.

Circuit Breaker Sales (CBS), Western Electrical Services (WES), and CBS ArcSafe will have their best years ever in 2014, besting both sales and profitability.

Sentinel Power Services (SPS) is looking at possible expansion and



moving more toward project management and engineering services.

Randy Roumillat has added stability and is making progress at Advanced Motor Controls (AMC) and Astro Controls. Be sure to check out AMC's new QMQB replacement switch on page 8. You also can see this new product at AdvancedMotorControls.com. This is the first in a series of new replacement products that David Muir at AMC will bring to market. Astro is adding systems and staff to better serve and grow its market presence. Bill Schofield has the new CircuitBreakerStore.com ready to roll out, and it will be live before the next *Buzz*, I am told!

Overall, the best year ever is in the making at GCBS. We are adding good young engineers and professionals to ensure our future. Shout-outs go to John Namnour for making a difference at CBSNE and really adding stability at the top. I'm thankful every day for John's contribution...to Alan Crawford for taking on a tough three-month project to trend 400 GE PowerVac breakers for Group Research & Development...to Finley Ledbetter III for getting the new Circuit Breaker Timer/Power Supply patent done and the product ready to market and really improving on my ideas...to Bill Schofield for endless hours on the new CircuitBreakerStore.com, and to all the people for making GCBS and all its affiliates what they are today.

And, of course, one more shout-out to the soon-to-be World Champion Dallas Cowboys. Or how about let's just hope for better than 8-8! 

Group CBS Acquires Conn.'s Electric Control Equipment Company

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Company, Inc., located in Norwalk, Conn. Electric Control provides electrical equipment, repair, remanufacturing, and life-extension services to industrial and commercial customers worldwide. The company will be integrated into Group CBS's Circuit Breaker Sales NE Inc. affiliate formed in April with the acquisition of Diversified Electric Services, Inc. (Seymour, Conn).

"Electric Control has a 60-year history of industry leadership and success providing custom and remanufactured switchgear, circuit breakers, parts, rentals, and emergency work to industrial end users, utilities, municipalities, government facilities, and Fortune 500 companies," said Bill Schofield, vice president of Group CBS, Inc. "With this acquisition, Group CBS continues to expand on its strategic growth initiative by expanding CBS Northeast's resources to serve new and existing customers."

Mr. Schofield at 800-232-5809 or visit GroupCBS.com. To access CBS Northeast's electrical equipment and services, call 203-888-7500 or visit CircuitBreakerSalesNE.com.

About Group CBS, Inc.

Headquartered in Addison, Texas, Group CBS has affiliated companies throughout the U.S. and in the U.K. that provide premier products and unparalleled capabilities and services to the industrial, utility, electrical distribution, and repair markets.

About Circuit Breaker Sales NE Inc.

Serving the industrial, utility, electrical distribution, and repair markets in the Northeastern U.S., Circuit Breaker Sales NE Inc. (Seymour, Conn.) is the authoritative source for all industrial and commercial electrical equipment, including circuit breaker contacts, trip

"With this acquisition, Group CBS continues to expand on its strategic growth initiative by expanding CBS Northeast's resources to serve new and existing customers."

Electric Control's Dan Kahn, a long-time principal at the company, will become a key member of the CBS Northeast sales team with his 30 years of switchgear sales experience.

To discuss joining Group CBS's family of electrical supply, service, and engineering companies, contact

units, vacuum interrupters, and complete matching switchgear lineups. Our service teams also can provide arc-flash analysis, breaker testing, remote racking and switching systems, and circuit breaker performance and timing test equipment as well as the industry's only field-portable vacuum interrupter test system. 

CBT-1201 Circuit Breaker Timer with Built-In Power Supply Speeds Circuit Breaker Testing in Shop, Field

By Julia Neves, Vice President and Operations Manager, Vacuum Interrupters, Inc.

THE NEW CBT-1201 from Vacuum Interrupters, Inc. is a solid, easy-to-use tool that greatly simplifies and expedites circuit breaker testing in the field or shop.

The CBT-1201 unit includes a durable circuit breaker timing test set, 120VAC/120VDC power supply, and switching control. Taken together, this rugged, field-portable unit operates and interacts with all types of circuit breakers, capturing and storing trip, close, and bounce times with millisecond precision. It is a versatile tool that can be used on the go to confirm proper breaker mechanical condition and clearing times as part of a maintenance program or arc-flash validation study.



The CBT-1201 is an inexpensive yet accurate timer that comes pre-configured with all circuit breaker control diagrams and power supply, allowing for faster, easier hook-up and results.



“With more emphasis on breaker speed and proper clearing times to confirm arc-flash incident energy levels and validate arc-flash safety studies, this new timer will allow technicians to work in the fastest, most efficient manner,” says Finley Ledbetter, CEO and chief scientist of Group CBS. “The CBT-1201 is an inexpensive yet accurate timer that comes pre-configured with all circuit breaker control diagrams, allowing for faster, easier hook-up and results.”

The CBT-1201 Circuit Breaker Timer has the ability to open and close most circuit breakers without the need for an external power supply, as well as record breaker open, close, and bounce times. It also can be used as a reconfigurable power supply to open, charge, and close the breaker for easy operation during maintenance checks while the breaker is located outside of its cubicle.

The new CBT-1201 unit ships with standard alligator clips and can be purchased with custom cables as optional equipment to match virtually any circuit breaker secondary plug control scheme to simplify and

speed electrical tests. The ability to reconfigure to match any breaker’s control scheme is the real advantage to this timer. Currently this can only be achieved with the use of the original or a copy of the original secondary control diagram or schematic, which requires a skilled technician.

This compact, lightweight unit, suitable for both field and shop use, also includes a heavy-duty, utility-grade storage bag for leads and the control unit. 

Circuit Breaker Sales NE Inc. Names John Namnoum President

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“As a longtime local resident, I’m excited about the additional capabilities we’ll bring to our utility, industrial, and commercial electrical customers through CBS Northeast, including the inventory, services, testing capabilities, and support of Group CBS and its 19 electrical affiliate companies,” Namnoum says.

“John was the right pick for us to expand Group CBS’s electrical franchise into the Northeast,” says Bill Schofield, vice president of Group CBS, Inc. “John has a long history in the local community and an excellent background in management. He has demonstrated the same commitment to both customer service and personnel management that is the standard at Group CBS affiliates in the southern and western United States. With the added support of Group CBS inventory and the engineering and service capabilities of our affiliates, CBS Northeast can be the dependable partner electrical customers in the Northeast deserve.”

For more information about CBS Northeast, contact Namnoum at 203-888-7500, or visit CircuitBreakerSalesNE.com. 

Vacuum Interrupters, Inc. Introduces New Rigid Magnetic Coil for MAC-TS4 Vacuum Interrupter Tester

By Julia Neves, Vice President and Operations Manager, Vacuum Interrupters, Inc.

VACUUM INTERRUPTERS, INC. is proud to introduce its new rigid magnetic coil for the MAC-TS4 vacuum interrupter tester, or test set, which allows technicians to test vacuum interrupters in GE PowerVac breakers in place without disassembling.

“Utilizing the Penning discharge principle, our MAC-TS4 vacuum interrupter tester, or test set, can easily determine the pressure inside a vacuum interrupter and this, along with wear, age, and number of operations, predicts the usable life of the vacuum interrupters used in your circuit breakers and contactors,” says Finley Ledbetter, CEO



Vacuum Interrupters’ new rigid magnetic coil for GE PowerVac circuit breakers ships with an external power amplifier to boost the magnetic field strength, enabling the system to predict remaining lifetimes for vacuum interrupters installed in PowerVac circuit breakers without disassembling the OCPD.

and chief scientist of Group CBS. “Until now, this type of testing could only be done at the assembly plant.”

Used in conjunction with the MAC-TS4 test set, the PowerVac rigid magnetic

field coil slides over the PowerVac pole assembly, allowing the technician to determine the interrupter’s remaining lifespan without removing the vacuum interrupter. The MAC-TS4 and rigid coils reduce the downtime required to test vacuum interrupters in the field and help prevent unnecessary damage to your circuit breakers and contactors by identifying impending failures before they happen.

This easy-to-use portable PowerVac rigid coil is the first of many breaker-specific coils currently being developed by Vacuum Interrupters, Inc. 

Vacuum Interrupters, Inc. Tests Embedded Pole Replacement for PowerVac Breakers

By Julia Neves, Vice President and Operations Manager, Vacuum Interrupters, Inc.

VACUUM INTERRUPTERS, INC. is currently in the testing phases of incorporating embedded poles to take the place of existing GE PowerVac pole assemblies. The vacuum interrupter is embedded in an epoxy resin that protects it from external elements, humidity, and debris. This compact, maintenance-free pole assembly is designed specifically to be a direct bolt-on replacement for the existing PowerVac pole assembly. The increased dielectric strength of the epoxy resin material compared to the existing

fiberglass insulating material reduces the adverse effects of dust and moisture on the insulating ability. Vacuum Interrupters, Inc. is currently testing the embedded pole at ratings up to 15kV, 2000A, 31.5kA with promising results.

With the ever-decreasing availability of replacement components for PowerVac pole assemblies, Vacuum Interrupters’ PowerVac embedded pole replacement will be a crucial component for improving and extending the life of customers’ existing circuit breakers. 

Vacuum Interrupters’ embedded pole replacement for GE PowerVac circuit breakers is currently undergoing product testing. For more information, contact Julia Neves at 214-442-5877 or by email at jneves@vacuuminterrupters.com.



CBS ArcSafe Makes the Middle East Safer

By Greg Davis, Customer Support Manager, CBS ArcSafe, Inc.

OVER THE LAST THREE YEARS, I have made several trips to the Middle East, visiting Saudi Arabia, United Arab Emirates (UAE), and Oman. My first trip was to Riyadh, Saudi Arabia, to visit Saudi Aramco and Saudi Electric. After going through the Aramco Riyadh refinery, I traveled on to Dammam/Khobar to visit the Aramco headquarters and Saudi Electric headquarters office in this Eastern Province. The initial interest at Saudi Aramco was remote racking and at Saudi Electric, parts for circuit breakers. This first trip lasted about two-and-a-half weeks, during which we were limited to the number of customers we could visit due to security constraints.

Coffee, Chocolate, Camels, and Hamburgers!

Some interesting personal observations about the Saudis — they love coffee and chocolate! It is hard to find a major road without a cluster of coffee shops on it, and there is an entire city block in Riyadh dedicated to chocolate. They are also partial to their camels. As it turns out, they have beauty pageants for camels where white camels are considered the highest grade of the species. Finley jokingly told me I would not be able to get a hamburger while there, but in actuality, they have Burger King, McDonald's, Carl's Jr., KFC, Subway, Krispy Kreme, Applebee's, Starbucks, TGI Fridays, Baskin-Robbins, Pizza Hut, and a lot more. You can find all the good and bad American fast food that you want.

More Presentations and Demonstrations

In Saudi Arabia, CBS ArcSafe works with Al Abdulkarim Holding (AKH),



Driving to an Aramco gas plant, we passed several pickup trucks with camels in the back.



Starbucks in Dammam — one of several locations. These restaurants have an area for single men and another area for families.



Just like any major road in America — fast food labels you can recognize.

one of the largest holding companies in the country. On my next trip, I went to a new technology tradeshow at the Saudi Aramco South Ghawar engineering center, where AKH helped me demonstrate our new equipment. AKH also facilitated visiting the Ras Tanura refinery. During this trip I also provided demonstrations to the Saudi Electric Eastern Region T&D office and the Ghazlan Power Plant and visited five substations to gather data on breakers. I was asked to do another presentation for the managing directors of T&D at Saudi Electric. One of my contacts at Saudi Electric noted that they

wanted to improve their safety record. I was given five minutes for a demonstration, which turned into 15 minutes. As it turned out, it was a teleconference with all the regions present and attending from around the country. I was subsequently invited to do another demonstration for the generation managers.

During my third trip, Saudi Electric asked us to meet to discuss our capabilities after a presentation from our competitor, Siemens. I did a six-hour presentation for both Saudi Electric and Saudi Aramco and then went to Dammam for more demonstrations

Middle East Electric, the biggest trade show on the other side of the world.



Burj Khalifa — for now the tallest tower in the world and not that far from the inside ski slope.



Palm Jumeirah from the outside.



at Saudi Electric's Qurayyah power plant and its Saline Water Conversion Corporation plant close to Jubail.

On my fourth trip, we coordinated with AKH to attend the Middle East Electric Conference in Dubai, UAE. At this large electrical tradeshow, we had significant interest at the booth from many plant engineers wanting to know what we could do. After the trade show, I demonstrated our capabilities to Dubai Aluminum (DUBAL), who was interested in improving its plant safety record. I provided demonstrations at two substations and did a site evaluation on a third substation. I was also able to visit four of the T&D companies in the UAE.

Next, I traveled back to Saudi Arabia to visit four Saudi Electric substations — three in the Dammam area and one in Jeddah. The Jeddah substation had Siemens 8BD1 switchgear, which Siemens stopped making 30 years ago. The 8BD1 breakers were minimum oil-tank-type breakers that require an RRS-2 extractor setup to remotely rack. Siemens said the 8BD1 could not be remotely racked. I did a site evaluation and sent the results back the ArcSafe office. I also visited the Saudi Aramco facilities in Jeddah and Yanbu.

Next it was on to Oman. Most of my time in this beautiful country was spent in Sur, which is about two hours south of Muscat. Oman has several cultural sites and natural preserves, including a large green sea turtle breeding ground that I was able to visit. The Oman India Fertilizer Company had purchased an RRS-1 and needed training, which I provided, and while there we worked on correcting some customs paperwork.

Back in Texas, our engineering team came up with a revolutionary design to remotely rack the Siemens 8BD1 switchgear. Saudi Electric made a pilot program purchase of four remote rack-

ing systems and plans to purchase more toward the end of the year. I went back to train the people at Saudi Electric a few months ago on their new remote racking capabilities. Now the new system for the 8BD1 switchgear works as designed. During this last trip, we visited some Saudi Aramco facilities to train them on their equipment and do more site evaluations. We also stopped in Dubai to visit DUBAL to confirm that our tooling would work as designed.

Through working with our Middle East customers, CBS ArcSafe continues to gain a wider presence in this region of the world. I have found that no matter if it's international or domestic, educating our customers on our capabilities is a key benefit for our company's business. 

The harbor lighthouse in Sur Oman.



A blue sinkhole along the coast of Oman.



Advanced Motor Controls Announces UL-Listed AMC-QMQB™ Panelboard Switch

ADVANCED MOTOR CONTROLS & SUPPLY, INC. has introduced the AMC-QMQB™ Panelboard Switch, a new replacement for the Federal Pacific Electric (FPE) series QMQB panelboard switches. The AMC-QMQB Series Panelboard Switch is UL-98 listed, file Number E466967.

“Advanced Motor Controls is proud to become the only supplier of a current series manufactured UL-98-listed panelboard switch, designed specifically to replace the existing FPE QMQB series of panelboard switches,” says David Muir, president of Advanced Motor Controls. “The switches in service today cannot be effectively reconditioned, and the solution is our new AMC-QMQB Series Panelboard Switches. With the UL-98 listing, our customers can be confident that our AMC-QMQB Series Panelboard

Switches include only UL-listed components and comply with all UL, NEMA, and NEC design criteria.”

Advanced Motor Controls’ AMC-QMQB Series Panelboard Switch is designed to replace the existing FPE QMQB panelboard switch without any modification to the existing switchboard. Originally manufactured by FPE, these switches were also licensed and have been manufactured under the names of Zinsco, Challenger, American Circuit Breaker, Frank Adams, and Sylvania.

Advanced Motor Controls’ AMC-QMQB Panelboard Switches are



FPE QMQB-2036R (back)
AMC-QMQB-2036R

available immediately. For more information, contact Advanced Motor Controls at 972-579-1460, by email at dmuir@advancedmotorcontrols.com, or visit the company’s website at www.QMQB.com.

GCBS COMMUNITY

Group CBS Visits Southland Electrical Supply



GCBS visited Southland Electrical Supply in July. Pictured here left to right are Tyler Holland, Southland Electrical business development manager; Jim Griggs, president; Tim Kelly, Matt Brierley, and Danielle Ferraiolo, CBS Northeast; Randy Roumillat, Astro Controls, Inc.; Lou Lavorgna, CBS Northeast; Greg Martin, Southland Electrical general manager; Chun Chung, Southland Electrical sales; Andy Conklin, Southland Electrical technical and field support; Finley Ledbetter, GCBS; Mike Griggs, Southland Electrical vice president; and Don West, Southland Electrical technical and field support.

Local EAA Chapter Sponsors Young Eagle Program

On June 14, the local EAA chapter sponsored its first Young Eagle program, which takes kids on private airplane rides in the hopes of instilling an interest in aviation. Dylan and Michael Sprouse, 11-year-old sons of CBS sales associate/office manager Teresa Sprouse, are pictured with CBS vice president of engineering Sam Endres, PE, as the boys took their very first airplane ride with CBS electrical engineers. Reports Teresa: “They had a great time, and we may have additional pilots one day to add to the CBS family.”



Vacuum Interrupters, Inc. Steps Up for Power Plant in Panama

By Jose Febres, Vice President, International Sales, Circuit Breaker Sales Co., Inc.

A GDF SUEZ power plant in Colón, Panama, recently had a failure in a main generator breaker. As a consequence, the gas turbine at Bahía Las Minas (BLM) — the largest generation plant in Panama — was forced out of service, affecting the facility’s generating capacity. BLM comprises a coal plant with 120 MW of capacity and a combined cycle plant with 160 MW of capacity for a total of 280 MW.

With the help of local company Potenciamax, Vacuum Interrupters, Inc. was able to provide from stock the exact vacuum bottle replacement. Potenciamax installed the vacuum bottles as soon as they arrived in Panama; shortly thereafter, the breaker was back in service and the generator back online.

Vacuum Interrupters, Inc. has developed an impressive line of direct-replacement bottles, helping solve immediate needs in different industries and different countries. 



Above: New Vacuum Interrupters replacement bottles installed and tested by Potenciamax.

Top right: Aerial view of Bahía Las Minas power plant.

Middle: New Vacuum Interrupters replacement bottles installed on breaker ABB Type 15 VHK 1000, 1200 Amp.

Bottom: The failed breaker was manufactured in 1998 and still had the original bottles.

CBS ArcSafe Crosses the Border into Mexico

By Jose Febres, Vice President, International Sales, Circuit Breaker Sales Co., Inc.

THE MEXICAN NATIONAL utility Comisión Federal de Electricidad (CFE) recently implemented the use of CBS ArcSafe remote racking devices at the Laguna Verde Nuclear Power Plant (LVNPP).

Located on the Gulf of Mexico coast near the city of Veracruz, LVNPP is the only nuclear power plant in Mexico and produces about 4.5% of the country's electrical energy. With an original installed capacity of 1,365 MW, LVNPP comprises two GE Boiling Water Reactor (BWR-5) units using

uranium (U235 isotope 3% enriched) as fuel. Unit-1 (U-1) started its operation on July 29, 1990, and Unit-2 (U-2) started its operation on April 10, 1995.

With the implementation of CBS ArcSafe remote racking systems for low- and medium-voltage switchgear, CFE confirms its commitment to safety policies and complying with NFPA's up-to-date standards and recommendations. With the help of local company Fonkel Mexicana, CBS ArcSafe continues to expand its international presence. 



Top Left: View of the Laguna Verde Nuclear Power Plant.
Top Right: Demo of CBS ArcSafe's RRS-1 unit during visit.
Bottom Left: The National Guard is a constant presence at the LVNPP.
Bottom Right: Comparing manual racking vs. remote racking.



Circuit Breaker Sales Co., Inc. would like to introduce you to Michael Albright, the most recent addition to our sales team. Here are Michael's answers to a few questions to get to know him better.

By Teresa Sprouse, Sales Associate/Office Manager

WHERE'S YOUR HOMETOWN?

Monroe, Conn.

HOW DO YOU LIKE LIVING IN SMALL-TOWN TEXAS?

I love it. Texas is so beautiful, and the people are so friendly. I am living in a town of 1,913 people surrounded by horse ranches. It is about 180 degrees opposite from the culture in the New York City area. Texas, to me, is what I always thought America should be; freedom is so highly cherished here. I also have never lived anywhere that appreciates veterans like the people here.



WHAT BRANCH OF THE MILITARY WERE YOU IN AND HOW LONG DID YOU SERVE?

I was in the U.S. Navy for eight years. I was an electrician's mate stationed on three different ships and also served in Beirut, Lebanon, during the Israeli occupation in 1983.

TELL US ABOUT YOUR FAMILY.

I have three beautiful, amazing grown daughters and their families. Two live in Georgia near Atlanta, and one lives in Grand Prairie, Texas. Since November 30, 2012, I have also been blessed with three beautiful, amazing granddaughters.

WHAT IS YOUR FAVORITE PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT AND WHY?

Protective relays and controls because they are fascinating, complex, and ever-changing.

WHAT IS YOUR LEAST FAVORITE AND WHY?

I will refrain from answering this question; after seeing our warehouses, I am thinking Finley and Bill would possibly say we don't have any that we don't like!

WHAT DO YOU THINK YOU BRING TO GROUP CBS THAT MAKES YOU UNIQUE IN THIS BUSINESS?

I am not sure, especially after seeing all the highly talented people that this organization has. If I had to guess, I would say I have worked in many parts of this industry and have a well-rounded background and understand how electrical components work together as a system. I have always enjoyed troubleshooting.



Vacuum Interrupter Testing with MAC-TS4



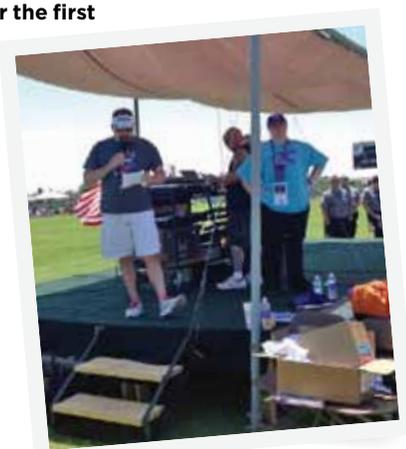
vacuuminterruptertesting.com/videos/vacuum-interrupter-testing-with-MAC-TS4.mp4

Introduction video to the world's first portable magnetron testing system for vacuum interrupters.

GCBS COMMUNITY

Group CBS at American Cancer Society's Relay for Life

CBS sales associate Justin Brewer participates in his 15th year of the local American Cancer Society's Relay for Life. Also on the Relay for Life committee were shipping manager Christy Schutt, participating for the first time, and parts assistant Latrisha Hughes, who has been involved with the event for 12 years.



Advanced Motor Controls**AdvancedMotorControls.com****Irving, Texas — Ph: 972-579-1460**

Advanced Motor Controls is a certified UL508A industrial control panel builder, designing and manufacturing custom control panels. Also provides new and professionally remanufactured MCC buckets, motor control centers, and component parts.

Astro Controls, Inc.**AstroControls.com****Irving, Texas — Ph: 800-289-2757**

Sales and service for all types of industrial molded case circuit breakers, insulated case circuit breakers, and motor controls.

CBS ArcSafe, Inc.**CBSArcSafe.com****Denton, Texas — Ph: 877-4-SAFETY**

Remote racking systems, remote switch actuators, and handheld motorized racking tools for low- and medium-voltage switchgear.

CBS Nuclear Services, Inc.**CBSNuclear.com****Matthews, N.C. — Ph: 704-882-1875**

Specializes in shop and on-site field servicing of Class 1E safety-related low- and medium-voltage switchgear and circuit breakers. Also services industrial and non-nuclear-related circuit breakers and related switchgear and substations.

CBS Power Products, Inc.**CBSPowerProducts.com****Dallas, Texas — Ph: 940-665-4444**

New alternative utility and industrial power products: transformers, switchgear, and other power apparatus.

Circuit Breaker Analyzer, Inc.**CBAAnalyzer.com****Addison, Texas — Ph: 972-290-0074**

Providing new circuit breaker testing methods that utilize vibration analysis combined with internet data transfer and sophisticated condition-based analysis to determine the condition of all types of circuit breakers.

Circuit Breaker Sales Co., Inc.**CircuitBreaker.com****Gainesville, Texas — Ph: 800-232-5809**

World's largest inventory of low- and medium-voltage circuit breakers. Millions of parts in stock. Complete service, remanufacture, upgrade, and life-extension services. Match existing switchgear lineup. Also offers CBS MagVac, a line of magnetic latching medium-voltage breakers that eliminates moving parts with a magnetic latching linear actuator.

Circuit Breaker Sales & Repair, Inc.**CBSalesAndRepair.com****Houston, Texas — Ph: 281-479-4555**

Servicing the Gulf Coast with shop or field service, repair, upgrade, or replacement of power system apparatus.

Circuit Breaker Sales & Service, Inc.**CBS-Florida.com****Lakeland, Fla. — Ph: 863-646-5099**

One-stop service for circuit breakers, switchgear, transformers, protective relays, loadbreak switches, motor controls, unit substations, renewal parts, and repair, upgrade, life extension, and maintenance services.

Circuit Breaker Sales NE Inc.**CircuitBreakerSalesNE.com****Seymour, Conn. — Ph: 203-888-7500**

A leader in providing power distribution products and services, specializing in life-extension services and offering an expansive inventory of new, surplus, and reconditioned circuit breakers, switchgear, motor controls, transformers, and other power apparatus.

Circuit Breaker Store, Inc.**CircuitBreakerStore.com****Denton, Texas — Ph: 855-227-8673**

Your online source for all Group CBS products, a powerful solutions provider with a specialty vendor network that can supply factory new, surplus new, and reconditioned circuit breakers, electrical distribution, control equipment, parts, and remote racking equipment.

Group CBS, Inc.**GroupCBS.com****Addison, Texas — 972-250-2500****Sentinel Power Services, Inc.****SentinelPowerServices.com****Tulsa, Okla. — Ph: 800-831-9550**

Sentinel Power Services is an electrical power service company servicing the Central U.S with electrical engineering studies; on-site electrical testing, preventive maintenance, and repair services; and repairing, building, and installing electrical power systems.

Solid State Exchange & Repair, Inc.**SolidStateRepair.com****Denton, Texas — Ph: 877-874-7349**

Quality, reliable, on-time service and support for all brands and types of solid state power electronics, including circuit breaker trip devices, protective relays, motor overload relays, and rating plugs.

Transformer Sales Co.**TransformerSales.com****Gainesville, Texas — Ph: 940-665-4484**

Offers a complete line of new, surplus, and reconditioned dry-type, cast-coil, and liquid-filled power transformers from 1000 to 5000 kVA with primary voltages from 2400V to 34.5kV.

Vacuum Interrupters, Inc.**VacuumInterruptersInc.com****Carrollton, Texas — Ph: 214-442-5877**

Provides replacement vacuum interrupters (vacuum bottle interrupters) for virtually any manufacturer's medium-voltage circuit breaker or contactor. Offers the MAC-TS4 test set to determine the condition of vacuum interrupters in the shop or field.

Western Electrical Services, Inc.**WesternElectricalServices.com****Phoenix, Ariz. — Ph: 888-395-2021**

Serving the Southwest with superior quality on-site electrical testing, maintenance, and repair services as well as rebuild, upgrade, and life extension services for switchgear, circuit breakers, and motor controls.

Western Electrical Services, Inc.**WesternElectricalServices.com****Salt Lake City, Utah — Ph: 888-395-2021**

The only full-service electrical testing and maintenance company in the Intermountain region.

Western Electrical Services, Inc.**WesternElectricalServices.com****Sumner, Wash. — Ph: 888-395-2021**

The Northwest leader in electrical testing, maintenance, and power switchgear services providing on-site electrical testing and maintenance, electrical engineering studies, and sales, repair, upgrade, and life extension services of circuit breakers, switchgear, motor controls, and transformers. Also custom manufacturing of engineered and reverse-engineered parts.

Western Electrical Services, Inc.**WesternElectricalServices.com****Vancouver, Wash. — Ph: 888-395-2021**

Utility-class service provider to the Northwest T&D market.

TRADE SHOW CALENDAR

Visit with **GroupCBS** companies at the following trade shows and exhibits:

Critical Facilities Summit

CHARLOTTE, NC

September 29-October 1, 2014

Doble Circuit Breaker Test & Maintenance Training Conference (formerly FinePoint)

PITTSBURGH, PA

October 6-10, 2014

Southeast Mine Safety & Health Conference

BIRMINGHAM, AL

November 5-7, 2014

IEEE Convention of Central America and Panama Concan XXXIV

PANAMA CITY

November 12-14, 2014

Power-Gen International

ORLANDO, FL

December 9-11, 2014