



THE Breaker Buzz

Providing Electrical Solutions Worldwide VOL IX

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CBS' Tim Brewer helps electrical contractor Rising Edge Technologies solve generator dilemma, avoiding daily losses of \$200,000 to \$300,000 per day.

CBS' Quick Thinking Helps Customer Avoid Millions in Downtime

A CUSTOMER OF ELECTRICAL contractor Rising Edge Technologies (Regina, Saskatchewan, Canada) needed to perform maintenance on one of its 85 MW gas turbine generators, along with maintenance on other equipment throughout the plant. Part of the isolation procedure for the maintenance required the customer to rack out one 15 KV, 5000 A GE Magne-Blast circuit breaker, which was being fed by the 13.8 KV, 85 MW generator. After completing maintenance, the technician proceeded to rack the main breaker into the cell. The racking mechanism malfunctioned, causing the breaker to tilt and misalign the breaker stabs to the cell finger clusters located in the primary disconnect bottles.

"This was when we were called for assistance," says Brad Holt, division manager at Rising Edge Technologies. "After removing the breaker from the cell and investigating further, we found the finger clusters located in the breaker cell to be bent and damaged beyond repair."

That evening, Rising Edge Technologies called Circuit Breaker Sales Co., Inc. for assistance but had very little information initially because they couldn't access the internal portion of the cell. After contacting

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THE VIEW FROM FLIGHT LEVEL 410

By *Finley Ledbetter*, CEO, Group CBS

Steering Group CBS to a Bright Future



THE PAST IS a statement, the future is a question.

That's what I think of as I look around our industry and at Group CBS affiliates in particular. I look at the balance of power in our industry, and I see that many of the "Old Guard," companies that were in power when I started, are gone. I see a lot of young companies that are small but prosperous, focusing on small niches, regions, and product lines, and doing it very well. And I see the battle line drawn between the majors and us "independents" as we challenge our industry and ourselves to do better.

That's the rub about competing against the Bigs. The only way to win is focus on what you do best and always, always outperform. So as I think about the future, I ask myself: What will we do tomorrow? What new products and services can we develop? How can we improve our process in marketing, sales, and engineering? How can we take better care of our customers and our people? Our affiliates may have different answers to those questions, and that's okay. As long as we keep asking ourselves how we can improve, we can be sure of one thing: We will get better. Stronger. And more successful.

The Group's future is bright. We've had back-to-back years of record sales. Our service shops and field-service groups are booming, and, like everyone else, all are looking for more of the "right" people. In our group, opportunities abound for people who can perform and grow as our businesses grow.

GCBS has grown into a battleship of a Group with truly global capabilities (see page 8 for more on our Asian expansion). A question (or rather, two) would be, "So what? How can we improve this and build a better fleet for our employees' security and to better serve our clients?"

Let's don't stop now. Let's don't stagnate and become one of those companies that have faded with time as ownership

The Group's future is bright. We've had back-to-back years of record sales. Our service shops and field-service groups are booming, and, like everyone else, all are looking for more of the "right" people.

and management get complacent.

In this vein I plan to bring in some new blood at various levels in the Group. You may have seen all the young engineers and managers who have started in the last five years. This approach has kept the ship on course to success, and I plan to keep finding us the talent we need to stay ahead.

There will be some changes at Group HQ with a new CFO (you will see an announcement on this soon). Ray will shift to an advisory role and, believe it or not, you can expect the same from me in a few years. We have been working to develop a new Group CBS constitution to help guide the Group as we expand and change, adding new acquisitions, products, and services.

So, if I had a statement today about the Group's last 20 years, it would be: "Ray and I have done our part." The question is: "Which of you will help lead us into the future?"

GROUP TIDBITS

Western Electrical Services (WES) hopes to take a more active role in California; look for this as the year progresses. Bill Teets has joined Circuit Breaker Sales & Service (CBS&S) in Florida as general manager, while long-time manager Cristy Crews has moved into the VP of sales position. Let's all welcome Bill with

a hearty handshake and one “Attaboy!” Circuit Breaker Sales Northeast (CBSNE) has grown and the acquisition and integration of Electric Controls is complete. Look for more news about a new acquisition and startup in the Northeast soon.

Circuit Breaker Sales & Repair (CBS&R) is expanding east and opening a new service center called CBS Southeast to support operations on the Louisiana Gulf Coast! Vacuum Interrupters (VI) has begun remodeling a new home they purchased in Carrollton, Texas, to provide more room for a new 250kV Impulse set and a new R&D lab with many new capabilities. The additional space also will enable VI to add new engineering and sales personnel to stay ahead of the MAC vacuum interrupter testing program and the future needs for the PowerVac support program we have started.

Natalie Berg has taken a new role as GCBS VP and is working with me on mergers and acquisitions as well as other GCBS initiatives. Bill Stephens was announced as the new VP at Astro Controls heading up production, and Randy is pushing to be the first GCBS affiliate to fully integrate his operations with our Epicor inventory and asset management system. Look for a progress report in the next *Buzz*.

For the first time, I really have no new news on CBS ArcSafe, except that Arc and CBAAnalyzer recently accepted new product awards in Chicago. What’s up with that, guys? I guess they’re busy filling orders. ArcSafe, WES, Circuit Breaker Sales (CBS), and Sentinel Power Services (SPS) all had a record 2014, as did CBS Northeast — and it was only CBSNE’s first year!

Enough from me. If I failed to mention your successes, I hope you’ll forgive me. So, let’s all get back to work. And oh yeah, my COWBOYS are looking better! Super Bowl, baby!!!

CBS’ Quick Thinking Helps Customer Avoid Millions in Downtime

Continued from page 1



New replacement bottles harvested from CBS test bay arrived in less than 24 hours, resulting in significant customer savings.

CBS, Rising Edge learned that the stabs in the cell could possibly be of two different vintages — one of which CBS had in stock ready to go. With consent from the end user, Rising Edge Technologies purchased the parts from CBS the following morning.

Just after CBS had finished crating the new bottles for shipment, however, Rising Edge Technologies gained access to the customer’s cell and obtained further data to relay to CBS.

“With this new information, we were able to determine the end user’s bottles were of a newer vintage, and we started sourcing the new parts,” says Tim Brewer, parts department manager at CBS.

Brewer and his team learned that new replacement bottles would require two to three months delivery time, so they went on a further hunt.

“We located replacement line and load bottles being used in our own breaker test bay and proceeded to dismantle our test bay to crate the necessary parts for shipment,” Brewer notes.

Time was money as the end user was losing \$200,000 to \$300,000 a day with-

out its generator running. Because the end user was located in Alberta, Canada, the parts would take at least two to three days to ship the replacement by ground, and they were too heavy for commercial airline shipment. CBS worked with the end user to resolve this logistics challenge, transporting the parts to the nearest airport for delivery via private jet.

The parts arrived by air just before midnight. They were safely transported to the site by ground, a trip lasting a couple of hours.

The parts ended up being a direct replacement, with installation and commissioning taking another 36 hours to complete. CBS provided installation assistance to Rising Edge Technologies through more than one late-night phone call.

It took less than 24 hours between the time the order for replacement parts began and when they arrived after a 2,000-mile journey. The end user’s generator was down for less than three days from the time of the incident to the time of energization, resulting in significant cost savings.

CBS Northeast Opens New Safety and Maintenance Training Facility

By Michael Smolen, Inside Sales & Marketing, Circuit Breaker Sales NE, Inc.

CIRCUIT BREAKER SALES NORTHEAST (CBSNE, Seymour, Connecticut) has completed its new safety and maintenance training facility for ArcSafe products and all other internal and external training



Fully renovated training center will support CBSNE's internal and external training needs.

needs. The facility is located on CBSNE's shop level.

The roughly 3,000-square-foot existing space has been converted into a fully renovated training center that seats 30 people and is equipped with an Epson projector featuring advanced whiteboard screen capabilities, two wall-mounted whiteboards, and other computer-based audio and video systems. In the new facility, which took a month to complete, trainees will experience courses ranging from basic circuit breaker maintenance to advanced arc-flash safety training.

"We are excited to bring our vast maintenance training expertise, which has supported our industry across the country, to our new facility here in the Northeast," says John Namnoun, general manager of CBSNE. "Along with the intrinsic value of having clients visit us on our home turf, this represents a great 'value-added' offering for our ArcSafe customers and those purchasing all CBSNE products." 

CBSNE's Seminar at ECNE Conference Sells Out!

By Michael Smolen, Inside Sales & Marketing, Circuit Breaker Sales NE, Inc.

CBSNE hosted a popular pre-conference seminar in conjunction with the Energy Council of the Northeast's (ECNE) event in March — so popular, in fact, that it was fully booked before the show with many waitlisted requests.

Field personnel, supervisors, and engineers attended the seminar, which was designed to build the skills of employees who perform maintenance and to provide supervisors with an understanding of issues they and their personnel may encounter.

"We were approached to host a seminar by ECNE members and felt that this was a perfect way to christen our new training facility," says Lou Lavorgna, vice president of sales at CBSNE and an ECNE member. "The seminar covered important topics such as maintenance, testing, and switchgear." 

Right: Finley Ledbetter chats with attendee at sold-out seminar.

Below: CBSNE seminar covered key maintenance skills and issues.



PEARL Advances Electrical Reconditioning Standard, Technician Training

By Dan Hook, Executive Vice President-Business Development, Western Electrical Services, Inc. and PEARL Secretary



Dan Hook

WITH VOLUNTEERING ASSISTANCE from Western Electrical Services, Inc., the Professional Electrical Apparatus Recyclers League (PEARL) is moving forward with review

and analysis of the ANSI standards and development. PEARL also is developing Level II of its technician certification program.

PEARL SUBMITS RECONDITIONING STANDARDS

On Friday, February 27, 2015, PEARL submitted its Reconditioning Standards to its ballot pool for review and voting. The ballot pool was organized through the American National Standards Institute (ANSI) process of bringing together a balanced group of professionals representing manufacturing, service, users, general interest, and producers, along with electric

cal equipment recyclers. The pool of participants have a 45-day period, or until May 11, 2015, to vote their approval and/or offer comments or suggested improvement. Once comments are compiled, the PEARL ANSI Accreditation Committee will prepare responses and issue updates as required.

The process is one step in ensuring the opportunity for in-depth review and analysis of the standards with a focus on safety and performance of reconditioned electrical equipment. This issuance of the standards for canvassing is an important step in the overall process and one that initiates the opportunity for an exchange of comments, further development, and clarification as needed.

PEARL's Reconditioning Standards are available for sale on the PEARL website at www.pearl1.org. For more information, contact dhook@westernelectricalservices.com.

LEVEL II TECHNICIAN CERTIFICATION PROGRAM UPDATE

PEARL has now started development of Level II certification it aims to have available to members in 2016. The PEARL development committee recently held the first question-writing workshop for this exam in Lewisville, Texas, where subject matter experts with direct working experience in electrical reconditioning industry participated.

The PEARL Technician Certification program is intended for technicians who are engaged in inspection, reconditioning, and/or remanufacturing, testing, periodic maintenance of electrical power equipment and evaluation of such equipment for acceptance for service, continued serviceability, or required maintenance. Since May 2014, Level I certification has received over 40 technician applications from 10 different PEARL member companies. For more information, visit www.PEARLTechnicianCertification.com.

Salesforce Milestone Will Give Group CBS New Insights Into Customer Needs

GROUP CBS IS in the final stages of migrating all its affiliates into the Group CBS Salesforce.com database. With all the companies' contact assets located under the Group CBS Salesforce.com umbrella, transparency to this valuable information strengthens the Group as a whole and makes Salesforce a better tool for each affiliate.

"This data repository gives Group CBS affiliates the use of the latest sales and marketing methods to allow us to serve our customers better as we continue to address all of our customers' electrical equipment, service, and engineering needs," says Natalie Berg, vice president of business development at Group CBS.



Vacuum Interrupters, Inc. Ships First Circuit Breaker Timer Units

PORTABLE CBT-1201 SYSTEM SIMPLIFIES BREAKER TRIP AND TIMING TESTS.

By Finley Ledbetter III, Engineer, Group CBS

VACUUM INTERRUPTERS, INC. recently shipped the first of its CBT-1201 portable circuit breaker timer (CBT), power supply, and circuit breaker control systems. The rugged field-portable CBT-1201 timer, first introduced at the NETA 2014 PowerTest Conference, is now ready for the market.

The CBT-1201 unit includes a heavy-duty circuit breaker timing test set, power supply, and switching control in one easy-to-use tool. The unit operates and interacts with all types of circuit breakers to capture and store trip, close, and bounce times, all in milliseconds. It can be used on the go to confirm proper breaker speed and clearing times as part of a maintenance program or arc-flash validation study. The cost-effective, accurate timer comes pre-configured with all circuit breaker control diagrams, allowing for faster, easier hook-up and results.



Rugged field-portable CBT-1201 timer is now ready for the market.

The timer comes pre-configured with all circuit breaker control diagrams, allowing for faster, easier hook-up and results.

The CBT-1201 unit ships with secondary push-on connectors that enable more timing test data to be gathered. Optional custom cables also are available for virtually any circuit breaker to simplify and speed electrical tests. This compact, lightweight unit, suitable for both field and shop use, includes a heavy-duty utility-grade storage bag for leads and the control unit.



CBT-1201 captures and stores trip, close, and bounce times in milliseconds.

Group CBS Names Bill Teets General Manager of Circuit Breaker Sales & Service Inc.



Bill Teets

GROUP CBS, INC. recently announced the appointment of Bill Teets as general manager of Circuit Breaker Sales & Service Inc. (CBS&S, Lakeland, Florida). The company's long-time general manager, Cristy Crews, has become a company principal and will assume the role of vice president of sales for CBS&S.

"During the next 12 months we plan to increase our staffing at our Lakeland facility as we build a premier facility to serve Florida and the Southeast U.S.," says Bill Schofield, vice president of Group CBS, Inc. "Mr. Teets has

more than 15 years experience serving the electrical industry in the Southeast, which will be extremely valuable as we move forward with our growth initiative in this region."

"Thanks to the support of Group CBS's nationwide network of electrical suppliers, servicers, engineers, and field service, CBS&S' customer base has grown significantly in the Southeast," Crews says. "Working together with Bill, I look forward to increasing our technical expertise, equipment repair and reconditioning facilities, and inventory to create the leading service and supply center for industrial and commercial electrical equipment in the Southeast." 

New ANSI/NETA ECS-2015 Standard Bridges Electrical Power Systems Acceptance Testing, Commissioning Gap

STANDARD ENSURES EQUIPMENT OPERATES TO MANUFACTURERS' TOLERANCES AND STANDARDS.

By Dan Hook, Executive Vice President-Business Development, Western Electrical Services, Inc., and NETA Membership Application Review Committee Member

ON MARCH 25, 2015, the InterNational Electrical Testing Association (NETA) announced its new ANSI/NETA ECS-2015 Standard for Electrical Commissioning Specifications for Electrical Power Equipment and Systems, 2015 edition. NETA designed the standard to bridge the gap between electrical acceptance testing and commissioning in order to ensure that electrical equipment operates in accordance with the manufacturer's tolerances and applicable standards, and is installed and performs according to design specifications.

NETA identified the industry need in that previous standards did not address the emerging market of electrical systems and equipment commissioning.



The new standard will result in more successful testing and maintenance based on more accurate historical data.

The standard describes the electrical commissioning process, including

details on documenting and placing newly installed or retrofitted electrical equipment. The NETA ECS committee created the standard and the standards review council approved it for ANSI consideration. It is intended to be used in conjunction with the ANSI/NETA ATS Standard for Acceptance Testing Specifications for Electrical Power Equipment and Systems.

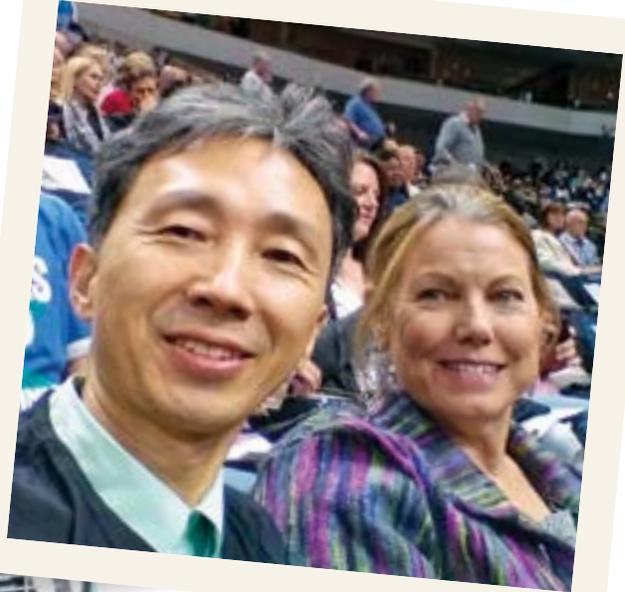
The new standard provides detail on commissioning requirements that in turn will result in more successful testing and maintenance based on more accurate historical data gathered early in the equipment's or system's life.

For more information on this standard, contact Dan Hook at dhook@westernelectricalservices.com. 

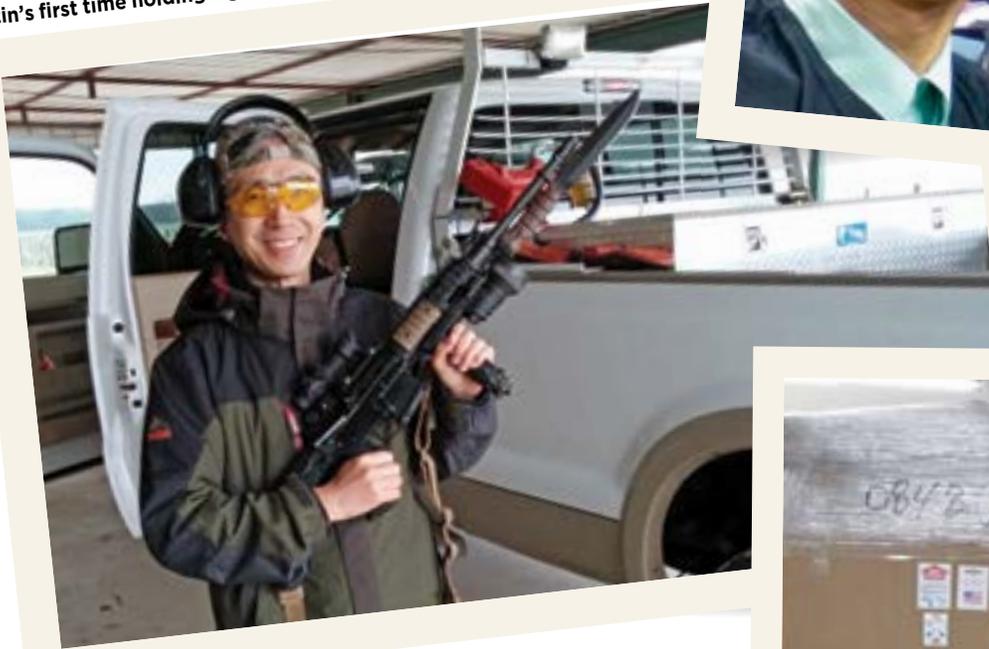
Group CBS Heads to Korea

Group CBS has entered into a new partnership with Neopis to represent and market GCBS products in Korea. Korean agent Martin Lee recently visited the GCBS facility for training and while there took in some local sights.

Martin Lee and Joni Ledbetter take in a Dallas Mavs game.



Martin's first time holding a gun.



Martin gets familiar with a CBS ArcSafe RRS-1.



CBS ArcSafe, CBAalyzer Products Win Plant Engineering 2014 Product of the Year Awards

CBS ARCSAFE AND CIRCUIT BREAKER ANALYZER, INC. recently won *Plant Engineering* magazine's 2014 Product of the Year Awards. CBS ArcSafe's RSA-161A, RSA-174F, and RSA-187A remote switch actuators designed to safely and remotely operate circuit breakers outside the arc-flash zone each won in three separate categories. The RSA-161A actuator won in the Electric Motors & Drives category, the RSA-174F actuator won in the Electrical Safety category, and the RSA-187A won in the Safety category. Circuit Breaker Analyzer, Inc.'s application, CBAalyzer™ for Windows 7-compatible tablets and personal computers, won in the Maintenance Software category.

"We are very pleased to receive this recognition as it was voted on by the magazine's subscribers who are responsible for selecting and using these products on a daily basis," says Finley Ledbetter, CEO and chief scientist of Group CBS. "This type of recognition is what keeps us inspired and energized to design and manufacture the highest-quality solutions to protect our country's workers."

The CBS ArcSafe RSA-161A actuators are designed for all 3-in.-handle versions of the Schneider Class 9421 Type L circuit breaker mechanisms, which operate circuit breakers or interrupters of 75A to 250A at up to 600V. This actuator allows technicians to safely operate the breakers while stationed outside of the arc-flash hazard boundary without any modification to the breaker.

The CBS ArcSafe RSA-174F remote switch actuators are designed to remotely operate ABB/Sace Tmax T7 low-voltage molded case circuit breakers with current ratings of 1000A through 1600A. The RSA-174F actuators are designed for Tmax T7 breakers equipped with over-toggle mechanisms and allow technicians to safely close and open breakers while stationed outside of the arc-flash hazard boundary without any modification to the breaker.

The CBS ArcSafe RSA-187A remote switch actuator for General Electric "E Line" (150 A frame size) low-voltage molded case circuit breakers reduces the need for arc-flash suits and eliminates all hazardous manual contact with gear during operation by providing open and close operation from up to 300 feet away. The actuator is lightweight, portable, easy to install and set up, and provides technicians with a simple solution for hard-to-access breaker locations. The RSA-187A requires no modifications to be installed and operated and can be moved easily and quickly from one breaker to another.



Ashley McWhorter (left) and Natalie Berg (right) pose with Product of the Year awards.

CBS ArcSafe previously won Product of the Year awards from *Occupational Health & Safety* (OH&S) magazine (2013 & 2014) and *Electrical Construction & Maintenance* (EC&M) magazine (2012).

CBANALYZER WINS IN MAINTENANCE SOFTWARE

Used in conjunction with an external calibrated accelerometer that attaches magnetically to the breaker under test, the CBAalyzer application runs on a tablet or PC to identify potential mechanical failures before they happen. The tool helps customers avoid unplanned downtime and confirm arc-flash calculations based on trip times without the need to modify existing equipment or remove it from service. It also allows users to operate the breaker in any sequence desired, including trip, charge, or close. The vibration data created by the breaker operation is captured, displayed locally against previous tests, and analyzed via a Web-based application to identify potential problems based on vibration signature and the model of the breaker under test.

Circuit Breaker Analyzer previously won Product of the Year awards from OH&S magazine (2013 & 2014) and "Most Innovative" new product award at the PowerTest 2013 electrical maintenance conference. 

Mind Your (Digital) Manners

By Bill Schofield, President, Circuit Breaker Sales Co., Inc.

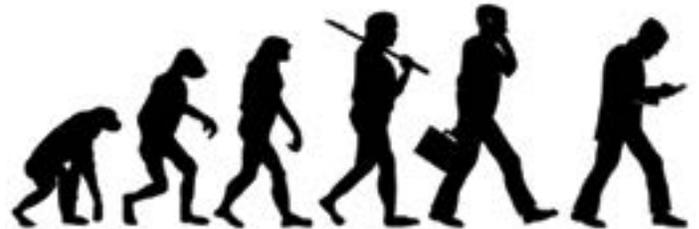
IN THE EVER-EVOLVING world of smart phones, social media, and digital communications, it is important that we all use these tools properly in a professional setting. As I look out across the Group, I see many folks not being smart with their phones or sending texts when they should be using email. Accordingly, please think about the following behavior when utilizing these methods of communication.

Our Group preference is for all communications to be by email, not text, chatter, tweets, or Facebook/LinkedIn posts. The reasons for this are many but include the ability to maintain the communication on our servers, protect against viruses and other malware, and easily forward photos and other data to others who may not have text ability and make it easier to keep important customer information in Salesforce and other IT systems. While sending a text might be useful in some situations (“We are outside waiting,” for instance), it is not proper for asking for a quote or sharing job details.

Also set your Outlook Auto Responder when you will be out of town or not immediately available to answer emails. In the responder, include the contact info of another person who

is covering for you. In the digital era, many expect a quick response. GCBS historically has been known by our quick response, and people come to count on that. Folks call us when they need immediate help. We need to be there for them or give them someone else to communicate with.

And lastly, when you can, put your phone down. When in a meeting with your boss, the staff, and especially the customer, give them the attention they deserve. Recently I have noticed how many cannot put their phone down and are twidgeting with it every moment. It is very disrespectful to be texting or pushing buttons when someone is trying to talk to you. Use the tools, but do so smartly. 



Breaker Maintenance Failure Results in \$13.9 Million Settlement

A PROCESS CONTROL solutions employee injured while working on software problems at the Reading Materials plant has been awarded \$13.9 million for physical and mental trauma he suffered when the company’s high-voltage circuit breaker exploded. The employee suffered third-degree burns, lung damage, and brain damage from the accident. Testimony by Reading Materials’ chief electrician revealed that maintenance was not performed on the breaker due to

the company’s decision to save money and avoid the electrical system downtime at the plant that the maintenance would have caused.

This \$13.9 million settlement might have been the result of inadequate breaker maintenance or some other problem, but no matter the cause, it reminds us that regular maintenance should be practiced to avoid physical, mental, and financial repercussions. 



Raiders of the Lost Arc



Circuit Breaker Sales VP engineer Sam Endres describes changes to the industry and key processes at CBS while an employee stashes priceless electric artifacts in the massive CBS warehouse.



Cody Perryman is Circuit Breaker Sales Co. Inc.'s low-voltage department supervisor and lead technician. We asked Cody to share with us more about his life at and away from the shop.

By Teresa Sprouse, Sales Associate/Office Manager

WHERE IS YOUR HOMETOWN?

Forestburg, Texas

WHEN DID YOU START WORKING AT CBS, AND WHAT DID YOU DO?

I started working here in 2000 in the parts room with Justin Brewer and testing relays.



Cody Perryman

TELL US ABOUT YOUR FAMILY.

I have a beautiful wife, Kari, and two wonderful sons: Diesel, 12, and Poseidon, 3 months.

WHAT SUPER-COOL HOBBIES AND ACTIVITIES DO YOU HAVE?

I spend my spare time writing and recording music in my studio, as well as performing live with my band SNS. I am also an avid skateboarder, preferring downhill and vertical skating.

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

DS is probably the best low-voltage breaker made with its simple design and great construction. Although I have to say I honestly enjoy the challenge of all the FP models; they certainly keep you on your toes and thinking.

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

The Sylvania SSPB line. They are over-engineered and not that well-built.

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

A drive for quality and a desire for a challenge.

GCBS COMMUNITY

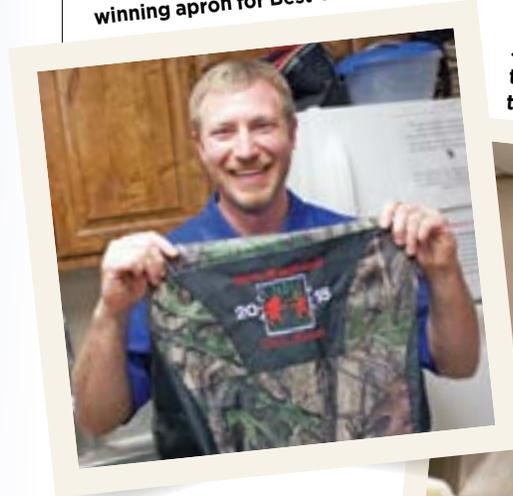
CBS Chili Challenge Tests the Taste Buds!

By Teresa Sprouse, Sales Associate/Office Manager

On February 26, three esteemed judges were tasked with finding the best chili cooks Circuit Breaker Sales Co., Inc. could muster! This blind taste-test competition was tough, as five competitive souls entered the Best Chili with No Beans race and four ambitious cooks wrestled it out for the Best Chili with Beans award.

The jury comprised Justin Brewer, Sandy Hess, and Zach Miller. Contestants were Kevin Brewer, Sam Endres, Michael Fierro, Kyle Fincher, Paul Grein, Tim Hennessey, Chet Hough, Cain McDaniel, and Brad Williams. Brad Williams won Best Chili without Beans, while Chet Hough took home the Best Chili with Beans prize. The first-place winners each received a \$50 Visa gift card and a very cool customized apron. The runner-up awards went to Cain McDaniel for Best Chili without Beans and Tim Hennessey for the Best Chili with Beans. Both received a \$25 Visa gift card for their culinary efforts.

Chet Hough proudly displays the winning apron for Best Chili with Beans.



Jessica Reiter displays the culinary efforts of the CBS chili challengers.



Winners Cain McDaniel, Brad Williams, Chet Hough, and Tim Hennessey.



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.

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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**

One-stop shop for all electrical equipment sales, testing, and engineering needs and a utility-class service provider to the Northwest T&D market.

TRADE SHOW CALENDAR

Visit with Group CBS companies at the following trade shows and exhibits:

IEEE — Pulp and Paper**MILWAUKEE, WI****June 14-19, 2015****HydroVision****PORTLAND, OR****July 14-17, 2015****TSDOS — Transmission & Substation Design & Operation Symposium****DALLAS, TX****September 9-11, 2015****TX MESE — Municipal Electric Safety Exchange****BOERNE, TX****September 17, 2015****Critical Facilities****CHARLOTTE, SC****October 5-7, 2015****PowerGen****LAS VEGAS, NV****December 8-10, 2015****2016 IEEE T&D****DALLAS, TX****May 2-5, 2016**