

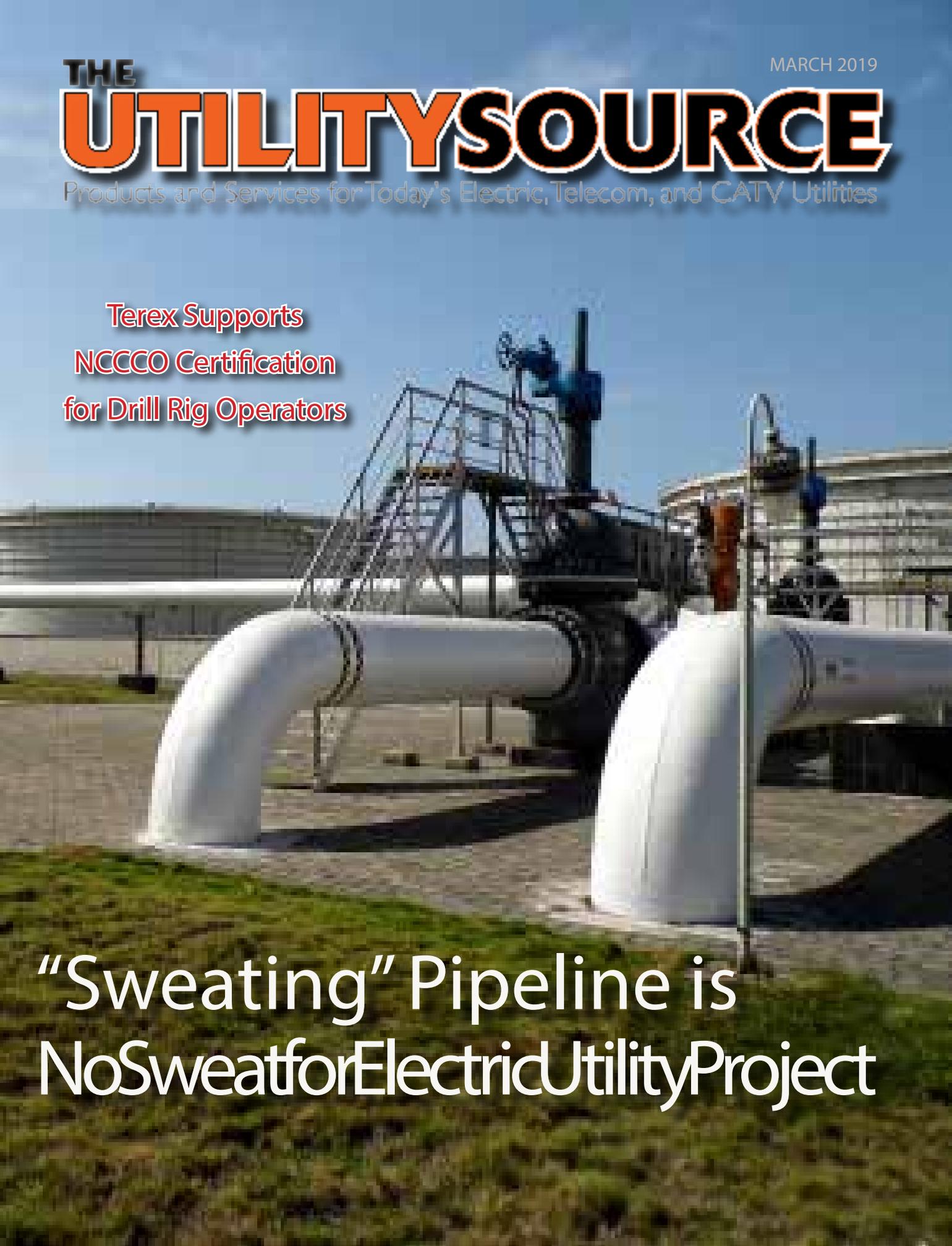
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SENIOR ACCOUNT EXECUTIVE

Hank Underwood
205-624-2182
hank@handfmedia.net

EDITOR

Brandon Greenhill
brandon@tipsmag.net

CREATIVE/ WEB DIRECTOR

Jacklyn Greenhill
jacklyn@handfmedia.net

ADMINISTRATIVE DIRECTOR

Steven Hobson
steven@tipsmag.net

CEO
Christy Hobson

PRESIDENT
Glen Hobson



Executive and Advertising Offices

PO Box 1568
Pelham, AL 35124
phone: 205-441-5591 fax: 205-624-2185
www.theutilitysource.net
glen@handfmedia.net

The Utility Source™ is published twelve times a year on a monthly basis by H & F Media, Inc. The Utility Source™ is distributed free to qualified subscribers. Non-qualified subscription rates are \$57.00 per year in the U.S. and Canada and \$84.00 per year for foreign subscribers (surface mail). U.S. Postage paid at Birmingham, Alabama and additional mailing offices.

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BURNDY® Announces the Release of the



New WILEY ACC-FPV90 Wire Management Clip

BURNDY®, a leading manufacturer and provider of wire management solutions to the Solar PV industry, announces the addition of the new ACC-FPV90 wire management clip to the WILEY line.

The ACC-FPV90 wire management clip is made of corrosion resistant 304 stainless steel, which makes it a durable, long lasting and reliable solution for all environments. The ACC-FPV90 is easy to install and slides 90 degrees on to module frames of various thicknesses. The ACC-FPV90 accommodates 1 to 2 PV cables up to 8.0mm in diameter. The rolled edges are designed to help protect cable insulation from damage. ACC-FPV90 clips are the perfect solution for keeping the PV installation neat, clean and free from ground faults.

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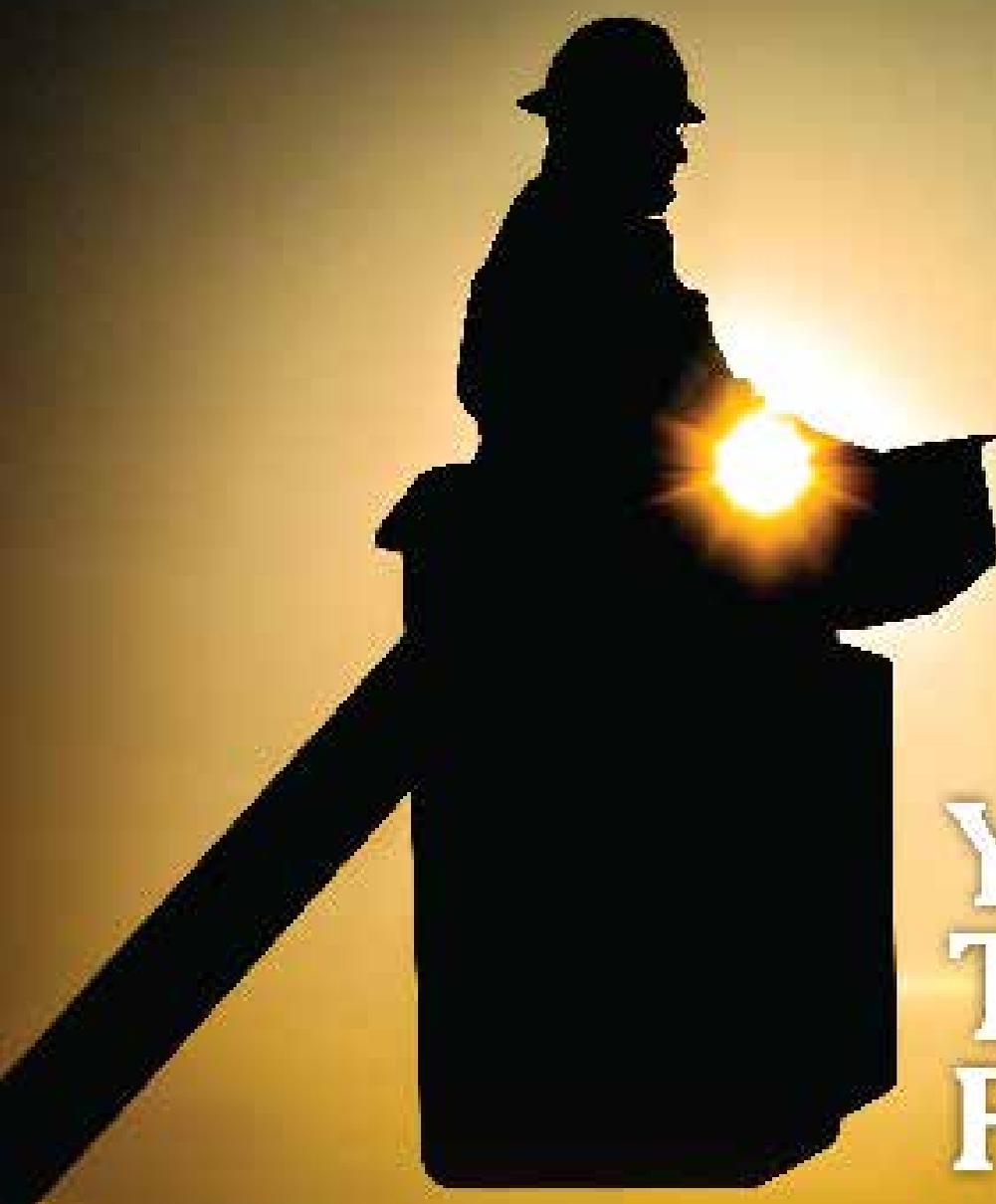
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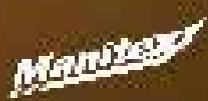
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Klein Tools® Introduces the 2-in-1 Impact Socket Set to Help Utility and Construction Professionals Save Time Between Tasks

Klein Tools (www.kleintools.com), for professionals since 1857, introduces the 2-in-1 Impact Socket Set, which includes 12 common impact socket sizes used in utility and construction applications. Its six sockets feature hands-free adjustment between sizes to help save time on the job. This convenient tool set extends Klein Tools' existing line of Impact Socket Wrenches.

2-in-1 Impact Socket Set, 6-Piece

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“Construction and utility workers use multiple impact socket sizes in their daily work, and manually switching

between varying sizes is time consuming and inconvenient,” says Kozeta Topchian, senior product manager at

Klein Tools. “Klein Tools’ new 2-in-1 Impact Socket Set equips professionals with 12 commonly used socket

sizes. Each socket features hands-free adjustment, so professionals can switch between sizes without removing

their work gloves, reducing the amount of time and effort required to finish the job.”

For more information, visit www.kleintools.com/new-products or search for #NewKleins on social media.

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Terex Supports NCCCO Certification for Drill Rig Operators

Terex Utilities announces that Dale Putman, Product Manager, was part of the first group of individuals to become a certified Foundation Drill Rig Operator. The designation is one of two new certifications developed by the National Commission for the Certification of Crane Operators (NCCCO) in conjunction with the International Association of Foundation Drilling (ADSC). Following receipt of Foundation Drill Rig certification, Putman also became accredited as an NCCCO Practical Examiner for the Foundation Drill Rig program.

“Being knowledgeable about our customer’s business extends beyond just knowing how and where Terex equipment is used,” said Putman. “We think it’s important to be a driving force to promote safe work environments for operators in the drilling industry. By getting certified myself, I can set an example when I operate Terex auger drills in the field with customers,” he said. Putman is also an NCCCO-certified Digger Derrick Operator.

Although OSHA does not currently require operators of drill rigs to be certified, employers must ensure operators are trained and qualified. Until now no independent mechanism has existed for operators to demonstrate knowledge, skills and abilities for operation of this equipment. “The unique challenges and operational practices required by drill rig equipment necessitated new certification exams different from any other NCCCO program,” said NCCCO Director of Operations, Joel Oliva.

The ADSC pro-actively sought the development of a certification because of increasing requests from



Project Owners or General Contractors for such credentials, explained Richard Marshall, CHST, ADSC's Director of Safety. Development of the certification began in 2017. Putman and Jason Julius, Technical Support and Training Development for Terex Utilities, were members of the certification task force. "Terex Utilities generously donated their experience and time, but also excerpts from various operator's manuals for use in the development of reference manuals and candidate study guides," said Marshall.

To achieve NCCCO certification for Foundation Drill Rig and/or Anchor/Micropile Drill Rig, candidates must successfully complete written and practical exams, including demonstration of inspection; use of safety protocols; identification of controls; and ability to pick and laydown pipe, position tools, drill, and safely secure the equipment in shutdown.

In order to become a practical examiner, one must pass the written core and specialty exams, and the practical exam. Then the examiner candidate must attend an

NCCCO Practical Examiner Workshop to learn policy and procedures. "Dale was one of the first individuals to become an NCCCO Certified Practical Examiner for Foundation Drill Rigs. Something that Terex Utilities should be proud of! Dale's participation helped provide the industry with quality assessments that are specifically focused on the work that foundation drill rig operators perform on a daily basis. These assessments will ensure that operators are proficient and knowledgeable and thereby reduce risk and improve safety in the drilled foundation industry," said Marshall.

Candidates and test sites interested in preparing for the NCCCO drill rig operator certification exams can find additional information at nccco.org/DRO or email info@nccco.org

About Terex

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About NCCCO

The National Commission for the Certification of Crane Operators (NCCCO) was formed in 1995 as an independent, non-profit organization by industry to develop and administer a nationwide program for the certification of crane operators and related personnel. Since then, NCCCO has administered over 1,200,000 nationally accredited written and practical examinations and issued more than 425,000 nationally accredited and OSHA-compliant certifications in all 50 states. For all the latest NCCCO news, follow @NCCCOorg on Twitter.

About ADSC

The International Association for Foundation Drilling (ADSC) is a not-for-profit trade association representing the drilled shaft, anchored earth, and micropile construction and design industries. Headquartered in Irving, Texas, ADSC has 11 regional chapters including nine in the United States and two in Canada. ADSC members represent specialty subcontractors, manufacturers, suppliers, design and consulting engineers, government agencies, and academicians working in the public and private sectors. ADSC encourages the use of the technologies designed and constructed by its members to foster safe and ethical business practices. ADSC strives to be a recognized world leader in the research, development, education, design, and construction of drilled shafts, anchored earth retention, and micropiles; with safety and quality being held as its highest value.

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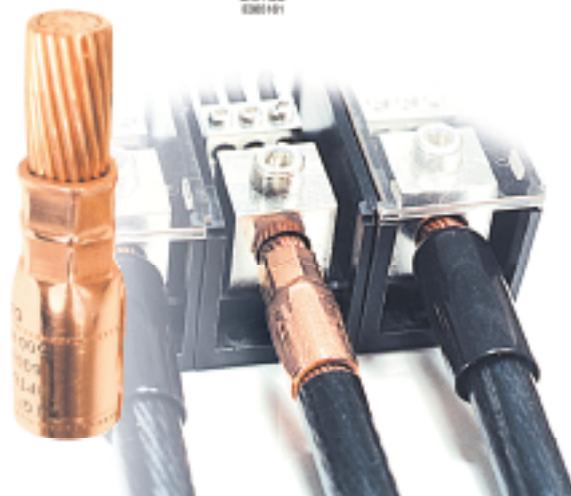
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When an electric utility in the Southeastern United States sought to protect above ground natural gas pipeline against corrosion, the goal was to cost effectively do so while minimizing downtime and environmental impact.

Yet in the power and petrochemical industries, protecting above ground pipeline from corrosion can be a challenge, particularly when the pipeline carries a cooled compressed gas that draws moisture out of a hot or humid external environment. This causes in use pipeline to continuously drip water, or “sweat”, making adhering a protective coating to the exterior of the pipeline virtually impossible without shutting down the line.

Traditional organic coatings also typically require days or even weeks of facility downtime depending on the project, due to complex surface preparation and application as well as curing times needed between coats. This can be tremendously expensive in terms of lost production as well as shut down and start up costs.

Utilizing such coatings near people or sensitive areas can also be problematic because they typically involve dangerous Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs), as well as clean up using harmful turpentine or mineral spirits.

So, when the electric utility chose an anti-corrosive coating for about 3,500 feet of power plant pipeline in a facility, it was very particular about its selection.

The 30-inch diameter pipeline

connects down to smaller diameter pipe that feeds natural gas boilers at the power plant. The boilers provide steam to two 858 MW steam turbines.

Because the power plant is located near a freshwater preserve teeming with wildlife, the electric utility is very attentive to its environmental stewardship.

Accordingly, the electric utility turned to EonCoat, a spray applied inorganic coating from the Raleigh, North Carolina-based company of the same name, for use on

the pipeline. EonCoat represents a new category of tough, Chemically Bonded Phosphate Ceramics (CBPCs) that can stop corrosion even when applied on in use, wet, "sweaty" pipeline. This eliminates the need to shut down the pipeline for maintenance while also eliminating dangerous VOCs and HAPs.

In Use Pipeline Corrosion Protection

Unlike traditional coatings, the CBPC coating is designed to apply over wet pipe because it is water based, ceramic, and initially porous before setting. This allows any excess water to vent out of the coating during the application process.

In contrast to traditional polymer coatings that sit on top of the substrate, the corrosion resistant CBPC coating bonds through a chemical reaction with the substrate. An alloy layer is formed. This makes it impossible for corrosion promoters like oxygen and humidity to get behind the coating the way they can with ordinary paints.

Although traditional polymer coatings mechanically bond to substrates that have been extensively prepared, if gouged, moisture and oxygen will migrate under the coating's film from all sides of the gouge.

By contrast, the same damage to the ceramic coated substrate will not spread corrosion on the pipeline because the carbon steel's surface is turned into an alloy of stable oxides. Once the steel's surface is stable (the way noble metals like gold and silver are stable) it will no longer react with the environment and cannot corrode.

Visible in scanning electron microscope photography, EonCoat does not leave a gap between the steel and the coating because the bond is chemical rather than mechanical. Since there is no gap, even if moisture was to get through to the steel due to a gouge, there is nowhere for the

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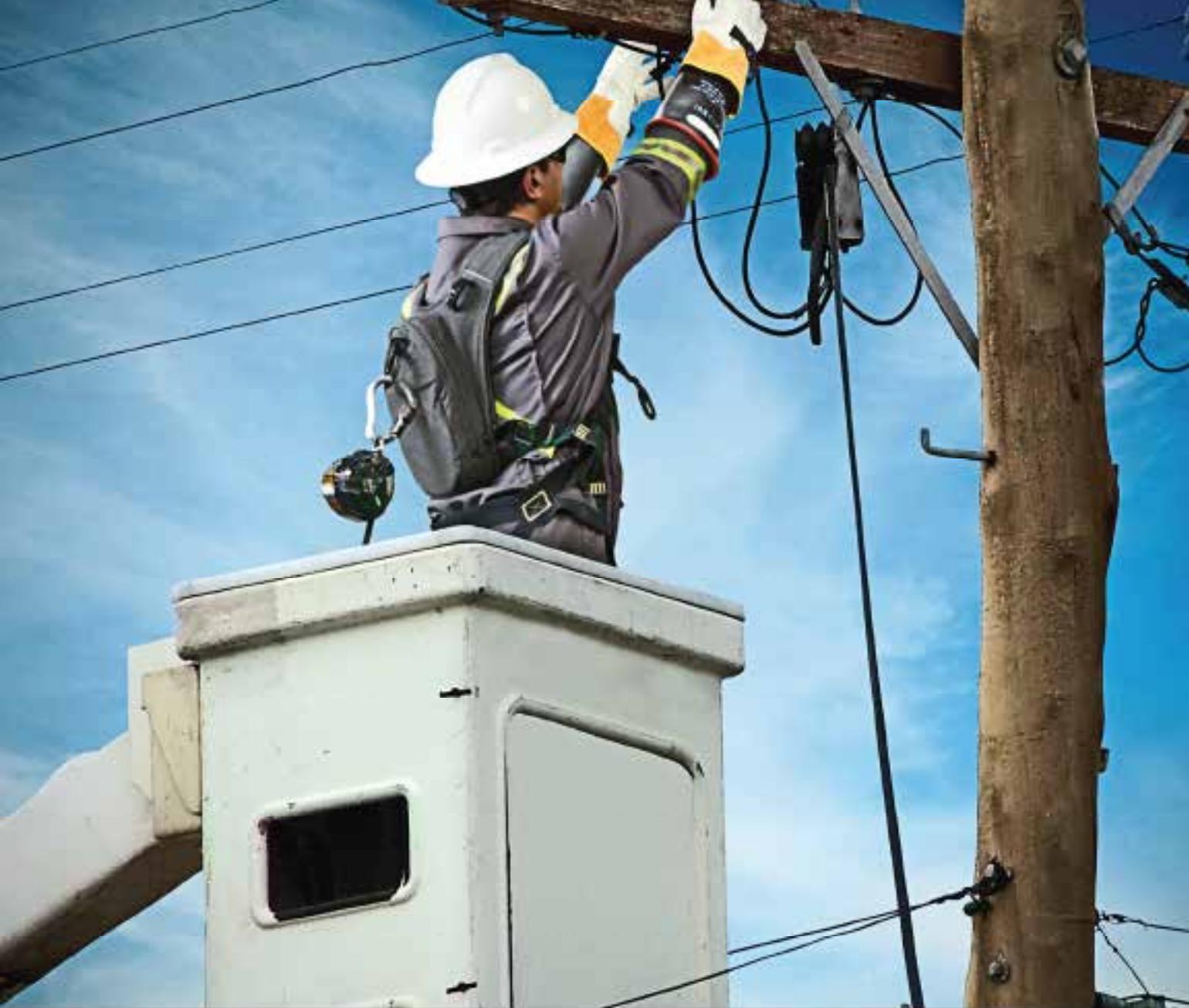
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“In power and petrochemical assets such as compressed gas pipelines, if the ceramic shell and alloy layer are ever breached, the ceramic shell acts as a reservoir of phosphate to continually realloy the steel,” explains Merrick Alpert, President of EonCoat. “This ‘self heals’ the breach, depending on its size, and stops the corrosion if necessary.

This capability, along with the coating’s other properties, enables effective corrosion protection for the life of the asset with a single application.”

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In the electric utility pipeline project, water jetting the pipeline's exterior was sufficient to clean and prepare the surface for coating, since only a NACE 3 / SSPC-SP 6 / WJ-1 commercial blast cleaning is needed.

The CBPC coating was successfully applied to the exterior of the 'sweating' in use natural gas pipeline outside the facility when atmospheric temperature was 87 °F with 58% humidity.

Such CBPC coatings consist of two non-hazardous components that do not interact until applied by a standard industrial plural spray system like those commonly used to apply polyurethane foam or polyurea coatings.

While EonCoat is normally spray applied at a thickness of 20 mils before a topcoat is applied, in this case the CBPC coating was deliberately applied at 25 mils and no topcoat was used to deter mold growth on the pipeline's exterior. The high pH of the inorganic coating tends to retard mold growth when used without a topcoat, even in a hot, humid environment.

Because of the ceramic coating's multiple layers of corrosion protection, and the ability to "self heal" breaches, the power plant is on track to see long term protection of its pipeline, effectively eliminating the traditional cycle of blasting and recoating during costly shutdowns.

The electric utility also met its environmental goals with this approach. The CBPC coating is inorganic and non-toxic, so there are no VOCs, no HAPs and no odor. The coating is also non-flammable. This enhances safety not only for plant personnel but also for the wildlife of the nearby freshwater preserve.

With atmospheric corrosion a perennial problem for owners or operators of any pipeline that carries compressed gas, whether for natural gas fired power plants or midstream oil and gas companies, the utilization of CBPC coatings that can control corrosion for decades will only help the bottom line and protect the environment.

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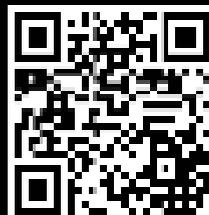


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