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COVER FOCUS: NUCLEAR TOP PLANTS

Byron Generating Station, Byron, Illinois
Exelon Nuclear operates the largest fleet of nuclear plants in the U.S. Its 21 reactors provide zero-carbon power 24/7. Exelon’s units are also among the best operated nuclear plants in the world, and the Byron station is arguably its top plant. This spring, Byron completed its sixth consecutive breaker-to-breaker run, which equates to 10 years of non-stop safe and reliable operation.

Darlington Nuclear Generating Station Unit 2, Clarington, Ontario, Canada
Ontario Power Generation successfully returned Darlington’s CANDU Unit 2 reactor to service in June after an extensive refurbishment. It was the first of four units to be overhauled as part of a 10-year project. The Unit 2 retube and feeder replacement involved about 2,300 people, working more than 8 million hours. Among notable achievements were the replacement of 480 fuel channels and calandria tubes, installation of more than 27 kilometers of pipe, and the completion of nearly 4,000 radiographic welds.

FEATURES

NETL Rising to Meet Needs of the Nation’s Fossil Power Plant Fleet
The National Energy Technology Laboratory (NETL) is advancing research and development that enables the U.S.’s fleet of coal and natural gas power plants to sustain their important contributions to local economies by operating in a flexible, efficient, and reliable manner, while reducing operation and maintenance costs.

A Climate Conundrum: Energy Transitions Will Need Water, but Water Scarcity Needs Energy
Experts point out that fuels and technologies expected to play a role in the energy transition could increase water stress or be limited by it. On the other hand, addressing water scarcity could lead to a greater reliance on energy-intensive sources of water, such desalination. This article will explore efforts across the global power landscape to prepare for and manage this water-energy nexus.

Project Financing in the Age of Climate Change
The absence of an economy-wide carbon pricing scheme in the U.S. hinders growth in renewable energy projects. Furthermore, analysts say there is a misperception that investments in sustainable or ESG (environmental, social, and governance)-focused projects involve trading off financial returns relative to traditional investment strategies. There is
agreement, though, that due to continued regulatory uncertainty, government support is necessary to lessen potential investment risk in clean energy projects.

The Financial Side of Energy Storage
Solar and wind power project developers are recognizing the financial benefits that incorporating energy storage into their project provides. Storage also has become a major part of microgrid configurations, and commercial and industrial enterprises are discovering it can improve the cost-effectiveness of their own installations. Continuing technology advancements in storage bode well for growth in the sector as investments in storage become more attractive.

Understanding Open Channel Flow Equations for Hydro Applications
Chezy and Manning developed equations that are used to determine the average volumetric flow rate in open channels. This article explains a laboratory method that has been developed and tested to further identify and quantify the parameters that make up the “roughness” coefficients of these equations. This method uses a hydraulic flume, and makes use of the technique of dimensional homogeneity and a new, exponential form of an equation for instrument calibration.

Quality Control and Management in Power Industry Capital Projects
For a capital project in the power industry to meet quality goals, it must fulfill its intended purpose, be executed safely, and meet budget and schedule requirements. But quality doesn’t just happen—it must be intentional. Quality control and quality management are essential aspects of the project execution plan.

Reducing the Cost and Disruption in Generator Examination with Visual Inspection Robots
Inspecting generators has always been a time-consuming and expensive job, yet, one that needs to be undertaken at regular intervals. One of the most challenging elements of any inspection is to examine the internal workings, such as the stator and rotor. An impressive visual inspection robot can save owners many days of unnecessary downtime and hundreds of hours of work.

Enhanced Turbine Coupling Tool Revolutionizes Gas Turbine Maintenance
Previously, routine maintenance on the GE 7FA-class turbine coupling was time-consuming, costly, and presented unnecessary safety risks for service technicians and plant maintenance crews. Now, an alternative method improves the disassembly and reassembly process, making it faster and smoother than ever, saving money without sacrificing safety.

The Cost of Turbine Modifications on HRSG Tubing
Combined cycle power plant gas turbine and steam turbine modifications can provide sizable economic gains, but these improvements often reduce the serviceable life of the heat recovery steam generator’s (HRSG’s) high-temperature sections, such as the high-pressure superheater and reheater harps. Economic studies to evaluate the financial benefit of turbine upgrades should consider a decrease in tubing life—up to and including the costs associated with a harp replacement—within the analysis.

EQUIPMENT SHOWCASE/SHOW PREVIEW
November Issue: Pumps, Valves, and Fittings Equipment Showcase
POWER features a different power-related equipment category in selected issues throughout the year. In the November issue, pumps, valves, and fittings will be the focus. If your company would like to submit a product to be considered for free inclusion in the section, send a 150-word write-up to editor@powermag.com with details about
December Issue: Equipment Showcase

POWER features a different power-related equipment category in selected issues throughout the year. In the December issue, we're including a catch-all grouping, which will include a variety of items that didn't necessarily fit into previous categories featured throughout the year. If your company would like to submit a product to be considered for free inclusion in the section, send a 150-word write-up to editor@powermag.com with details about the company and product, including a high-resolution image of the equipment and write “December Equipment Showcase” in the subject line.

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