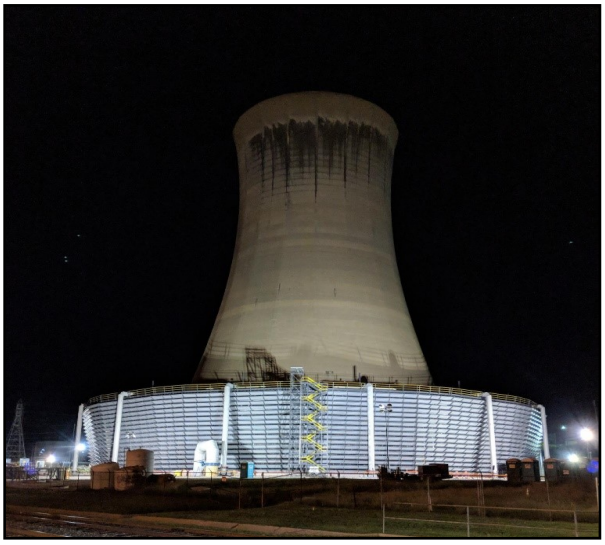
EVAPTECH QUARTERLY

Sept 2018, Q3

Project Spotlight

Dynegy Miami Fort



EvapTech continues to lead the industry in major project execution, completing yet another challenging outage project at Dynegy's Miami Fort Station near Cincinnati, OH this spring. Despite enduring one of the wettest springs in decades, EvapTech successfully completed the turnkey scope at Miami Fort including safely removing the old concrete EcoKel tower cross-flow fill/distribution ring, canopy panels, columns and support beams. Only the hyperbolic concrete natural draft shell was reused. EvapTech's scope included an all new fire retardant fiberglass structure, high-performance ArchBar fill, drift eliminators and an innovative grade level manifold system. The scope also included an all-new fiberglass canopy, bypass system and a flexible water distribution system designed to handle the tower's 384,000gpm consisting of fourteen (14) risers with individual butterfly valves to improve distribution and facilitate maintenance.

The project required nearly 163,000 direct man-hours to complete. At peak, EvapTech staff reached 145 workers with another 35 working for various subcontractors. Altogether, the team effort included EvapTech's top-notch field leadership team and crews, as well as demolition, disposal, concrete, electrical and piping subcontractors.

CTI STD 202 PROGRAM PARTICIPANT

In This Issue

From the Corner Office

During the Spring of 2018 EvapTech completed not only the Miami Fort natural draft tower restructuring highlighted herein, but concurrently rebuilt fill, eliminator, and distribution systems on another large natural draft tower. Stay tuned for future issues of EvapTech Quarterly as we will assuredly highlight the progress of that four unit project slated for final completion by the end of 2019. In addition to our 2018 new and aftermarket construction efforts, we have been extremely active with our continued support of CTI Standard STD-202. This invaluable program to encourage testing and reporting of test results is critical to assuring the industry provides fully rated products. Demand it of your cooling tower supplier to receive the thermal capability you specify, and purchase.

Don Dobney
President, EvapTech, Inc.

Employee Spotlight

Elisabeth Pallett

Aftermarket Components Mgr.

Elisabeth started with EvapTech almost two years ago after successful years as an Account Manager with United Heating & Cooling. Her purchasing skills developed while working with a large mechanical contractor have helped benefit EvapTech's purchase efforts moving forward. Her on-going support and quick responses to both contractors and end users has provided EvapTech increased success with spare parts; further evolving into aftermarket opportunities.

Elisabeth has a Bachelor of Arts from Baker University; noting a semester at the University of Vienna in Austria.

When not working with contractors, plant personnel, and keeping our Business Development Mangers in check, she spends time with her daughter, who provides all the beautiful artwork hung throughout her mom's office.

Technical Tidbit

Long Term Storage

Extended down time can have an adverse effect on a cooling tower's mechanical equipment, whether that downtime is before or after the cooling tower has been erected. Follow the guidelines below to ensure that the service life of your cooling tower's mechanical equipment is not reduced as a result of extended down time (30 days or more).

Gearbox—Confirm sufficient gear oil and operate the motor for at least five minutes each week to permit internal gear surfaces to be bathed in oil. The fans can be manually rotated to achieve this same purpose if the motor is not hooked up to a power source. Another option is to completely fill the gearbox with a corrosion preventative oil during the shutdown/storage time (and to remember to take it out prior to startup).

Motor—The motor space heaters should be energized to avoid condensation in the motor. Regular operation according to the manufacturer's recommendations is also required to lubricate bearing surfaces.

Sales & Marketing News

Rep Spotlight: White Equipment Controls

White Equipment Controls is located in Blue Springs, MO and was formed in 1991. White Equipment joined the EvapTech family in 2005 representing the power market in Missouri and Kansas. With their close proximity to Kansas City, White Equipment is well connected with the large local EPC firms including Black & Veatch, Burns & McDonnell, and Kiewit. EvapTech recently completed work on the Black & Veatch Tenaska Westmoreland project and construction is underway at the Kiewit CPV Fairview power plant. These projects were secured thanks to the hard work of White Equipment's Kory Pace and Chris Meyer. We are fortunate to have White Equipment as part of the EvapTech team!

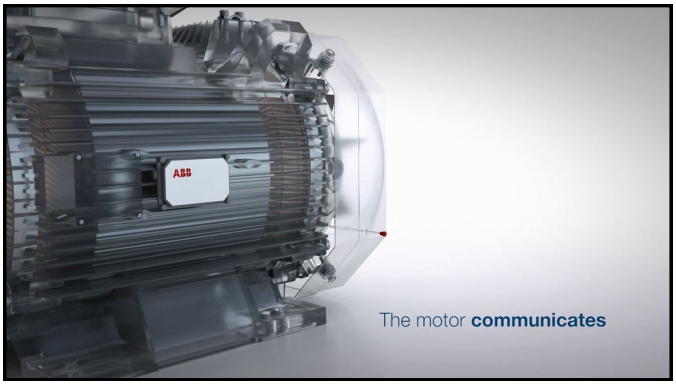
WHITE EQUIPMENT CONTROLS

Product Development

Wireless Monitoring Technology

As the world becomes more connected through the internet of things, EvapTech expects that technology to slowly trickle into the cooling tower market. For customers who find value in this big data approach to their maintenance systems, EvapTech is well suited to provide the appropriate device for monitoring their cooling tower.

One example of such a device is the ABB Ability Smart Sensor. This motor attachment can be installed on any existing motor and will monitor vibration and temperature so that end users can gain much greater insight into the health of their motors. The wireless device sends the collected data to a smartphone or a Bluetooth gateway and then is sent to the cloud where it is analyzed. The data can always be securely accessed by the user. Please contact EvapTech if interested in exploring this or similar options for your cooling tower mechanical equipment.



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Featured Projects

Berkshire Power

Berkshire Power, a 245MW facility, is a natural gas fired combined cycle power plant providing electricity to the deregulated New England market. After several frustrating experiences with repair contractors, in 2016 Berkshire Power partnered with EvapTech in rebuilding their cooling tower. Over several outages EvapTech has replaced the fill media (providing a substantial thermal improvement), drift eliminators, structural members and is now completing the major repairs by replacing all the fan stacks. The completed projects have all been on time and executed safely. This work will continue through the 2018 outage season.

CPV Fairview Energy Center

EvapTech recently started work on a 12 cell counterflow tower for the CPV Fairview Energy Center in Jackson Township, Cambria County, PA. The 1,050 MW combined cycle plant is scheduled to begin commercial operation in 2020. This is a challenging project for several reasons but most notably for the limited access and laydown. Our construction team has developed creative new methods to erect the tower safely in spite of these restrictions. The tower should be complete in early 2019.

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