

## Project Spotlight

### Twin Cooling Towers for Twin Power Plants

EvapTech recently completed the installation of two new FRP cooling towers for two new power plants: Kings Mountain Energy Center and Middletown Energy Center. Both towers were sold to Gemma Power Systems. The Kings Mountain Energy Center is a 475 MW natural gas fired power plant in North Carolina, and the Middletown Energy Center is also a 475 MW natural gas plant, but located in Ohio.



Since the plants were identical to one another, both cooling towers were purchased under a single contract. This allowed EvapTech to engineer and design one tower for both sites and purchase the components in bulk, creating significant cost savings that were passed on to the customer. Each tower is 7 cells with a total water flow in excess of 100,000 GPM.



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## From the Corner Office

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It is spring again at EvapTech and we are busy executing future successes to share in EvapTech Quarterly. In this issue we celebrate the successful completion of the twin towers at Kings Mountain and Middletown Energy Centers and share with you the launch of the exciting Miami Fort project involving the replacement of a concrete natural draft crossflow tower ring with a new fiberglass unit, offering both improved thermal capability and enhanced operational features. Most importantly we recognize the outstanding efforts of PowerQuip and introduce Joe Padilla, the EvapTech Western Regional Business Development Manager.

*Don Dobney*

President, EvapTech, Inc.

## Employee Spotlight

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### Joe Padilla

#### Business Development Mgr

Joe is one of EvapTech's newest employees but he brings along 25 years of cooling tower experience. With an undergraduate degree in Aerospace Engineering a graduate degree in Mechanical Engineering from the University of Central Florida, Joe has both the experience and technical expertise to serve our growing customer base in his Western US region.

In addition to his work selling cooling towers, Joe is a Lieutenant in the US Navy Reserve (Civil Engineer Corps—Seabees) and has previously been deployed to Iraq and Afghanistan. He resides with his wife Belinda (and their several pets) near Sacramento, CA in one of the old gold mining towns. In his spare time he enjoys riding his motorcycle through the Northern California foothills.



## Technical Tidbit

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### AGMA Gearboxes

The importance of utilizing AGMA (American Gear Manufacturers Association) gearing is paramount when a gearbox is expected to perform with the utmost quality and longevity in a specific application. Gearboxes designed to AGMA are rated for all components including but not limited to gearing, keys, and shafts. When evaluating gears and enclosed gearboxes, the AGMA standards provide theoretical guidance combined with practical experience to develop a gearbox to meet and exceed the demands of a particular application. AGMA takes the theoretical path, and couples in the application aspects which DIN (Deutsches Institut für Normung; German Institute of Standardization) and ISO (International Organization of Standardization) do not.

Note: ISO has since teamed up with AGMA on a number of specifications.



# Sales & Marketing News

## Rep Spotlight: PowerQuip

PowerQuip was formed in 1995 to represent manufacturers who service the Power Industry. PowerQuip is located in Layton, Utah with branch offices in Wyoming, Colorado, Arizona and Minnesota (Lindberg Process Equipment). PowerQuip represents EvapTech in the mountain states of Arizona, Colorado, Idaho, Nevada, New Mexico, Utah, and Wyoming.

PowerQuip began representing EvapTech in January 2008. Together, EvapTech and PowerQuip have worked hard to support PacifiCorp. This hard work and dedication resulted in EvapTech's first major contract with PacifiCorp Hunter Station for a complete replacement of an 11 cell tower in spring of 2016, followed up by an award with the PacifiCorp Huntington Station for the rebuild of 8 cells in the spring of 2017.



**IDEA 2017**  
Sustaining Our Success

108<sup>TH</sup> ANNUAL CONFERENCE & TRADE SHOW  
June 26-29 | Fairmont Scottsdale Princess | Scottsdale, AZ

## IDEA 2017

EvapTech is again partnering with our parent company, EVAPCO, to exhibit at the International District Energy Conference in Scottsdale, Arizona. This year's conference will focus on exploring emerging technologies, innovative policies and connect with global leaders advancing a new energy paradigm for cities, communities and campuses. We encourage you to stop by June 26-29!

## Product Development Update



### Fiberglass Stairways

EvapTech stairways are designed per OSHA standards and more importantly, designed to provide safe and long-lasting access to the cooling tower fan deck. The channel treads, as opposed to tub type stair treads, allow snow and rain to drain from the treads, greatly reducing puddle and ice accumulation. In extreme weather climates, the entire stairway can be enclosed to always keep snow and rain off the stair treads. The photo to the right shows the entrance to the top level of an enclosed stairway.



# Featured Projects

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## Dynergy Miami Fort

EvapTech is thrilled to announce the award of the refurbishment of the crossflow natural draft cooling tower at Dynergy's Miami Fort Station near Cincinnati, OH. Dynergy chose EvapTech for its innovative design concepts and creative execution plan that minimizes tower downtime during the spring 2018 outage. The turnkey scope at Miami Fort includes the challenging task of safely removing the old concrete EcoKel tower crossflow fill/distribution ring, canopy panels, columns and support beams. Only the hyperbolic shell will be reused. EvapTech's scope includes an all new fire retardant fiberglass structure, high-performance ArchBar fill, DriAir drift eliminators and an innovative circulating water manifold system. The scope also includes a new fiberglass canopy, bypass system and a more flexible water distribution system. EvapTech completed a similar project at PPL's Montour plant in 2010 (photo to the right).



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