

SUCCESS  
ON THE  
JOB

CUSTOM MADE COILS

HEATCRAFT COMMERCIAL PRODUCTS



Photo courtesy of Burns & McDonnell

The Butler-Warner Power Plant in North Carolina — the world's largest thermal energy storage (TES) project to date — depends on a half million feet of stainless steel tubing in 112 Heatcraft custom coils to help cool air used in generating electricity.

## Heatcraft Cools Down World's Largest Thermal Energy Storage Project!

### THE PROBLEMS

*One:* Looking for an innovative solution to increasing their summer generating capacity at a reasonable cost, the Butler-Warner Power Plant in Fayetteville, North Carolina began the world's largest thermal energy storage (TES) project. TES increases output during critical peak periods by cooling the air entering the turbines used to generate electricity. To cool that air, Butler-Warner needed a large number of high quality air-cooling coils.

*Two:* Over 100 cleanable-type coils would have to be custom-made to exacting specifications and delivered and installed on a highly critical schedule. Delivery posed special challenges because there were no loading docks at the delivery site. "It was obvious meticulous attention to scheduling was a must," said Bill Davis, Heatcraft's production superintendent.

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## THE SOLUTION

Call Heatcraft's Commercial Products Plant in Grenada, Mississippi, where custom-made coils are manufactured according to unique specifications and shipped in as little as 48 hours.



Part of the 1/2 million feet of tubing, used in the fabrication of the cooling coils being prepared for manufacturing.

Before construction of the project ever began, representatives from the Heatcraft drafting and production departments met with the project engineering consultants to ensure all

specifications matched.

With the help of their highly sophisticated coil selection software, Heatcraft engineers targeted performance specifications for all 112 custom-made coils. The coils were manufactured using over a half million feet of stainless steel tubing. Specially designed header boxes were epoxy-coated to meet customer needs for extended service life. Many other special features were designed into the coils to provide a mono-metallic fluid path within the system.

Each coil, weighing two tons, was deliv-



Completed coils waiting for packaging.

ered on a flat-bed trailer with a forklift because of their size, and to overcome the problem of no loading docks at the delivery site.

"Each shipment had to be perfectly timed to ensure coordination with the rest of the project," said project sales engineer Jim



Wonderly of Hughes Machinery in Kansas City. "Heatcraft met all the delivery targets and actually finished a week ahead of schedule."

Typical installation of the completed coil and drain pans as designed and fabricated by Heatcraft.

## THE RESULT

Thanks largely to the Heatcraft coils, the Public Works Commission (PWC) of North Carolina can buy less electricity during the summer, when demand is the greatest — with estimated savings of more than three million dollars each year. The project will pay for itself within five years — even though the equipment is expected to last five times that long!

- CUSTOM DESIGNED COILS ARE OUR SPECIALTY
- TIMELY DELIVERY IS OUR PROMISE
- SATISFIED CUSTOMERS ARE THE RESULT

**HEATCRAFT**

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