

PROJECT REPORT

GAS FIRED POWER PLANT – GULF COAST US Mechanical Draft Cooling Tower Fill Replacement

OVERVIEW

<i>Technology</i>	Mechanical Draft Cooling Tower
<i>Configuration</i>	Counter Flow
<i>Industry</i>	Power
<i>Fuel</i>	Natural Gas
<i>Location</i>	Gulf Coast US
<i>MW</i>	1012
<i>Units</i>	1
<i>Number of Cells</i>	10
<i>Material of Construction</i>	Fiberglass
<i>Scope</i>	Replace fill and fill supports in 2 cells over full basin
<i>Fill Volume Replaced</i>	35,000 ft ³
<i>Fill Type</i>	Vertical flute, anti-fouling
<i>Year Completed</i>	2016



Description

Research Cottrell Cooling, Inc. (“RCC”) was contracted by a utility along the Gulf Coast to replace the fill and fill supports in two cells of a 10-cell counterflow cooling tower at a gas-fired power plant. The cooling tower is situated over a canal, allowing the cold water to fall directly back into the canal water. A full deck was constructed to prevent debris from falling into the canal. This same approach can be used to replace fill in a tower over a typical cold water basin while the balance of the tower is on-line.

Work was completed safely and on schedule. Approximately 35,000 cubic feet of fill and all new fill supports were installed during the planned outage in less than three weeks.



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