

PROJECT REPORT

COMBINED CYCLE PLANT – TEXAS

Mechanical Draft Cooling Tower Refurbishment

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>	Texas
<i>MW</i>	800
<i>Units</i>	1
<i>Number of Cells</i>	12
<i>Material of Construction</i>	Fiberglass
<i>Scope</i>	Replace fill, drift eliminators, fans, and gearboxes
<i>Fill Volume Replaced</i>	20,500 ft ³
<i>Fill Type</i>	Vertical Flute, Anti-Fouling
<i>Fan Diameter</i>	32.48 ft
<i>Year Completed</i>	2013 thru 2018



Description

Research Cottrell Cooling, Inc. (“RCC”) was contracted to replace the fill, drift eliminators, fans, and gearboxes in a counterflow cooling tower that was originally constructed for a combined cycle power plant in Texas in 2001.

Work is being executed in two cells per year during the planned fall maintenance outage. A plywood basin cover was installed over the cold water basin to protect from falling debris, as basin was kept full of water during the work.

Work has been completed in eight of twelve cells since starting the refurbishment of two cells per year in 2013. Two 10-meter diameter fans, two gearboxes, approximately 20,500 cubic feet of fill, and 6,200 square feet of drift eliminators are replaced each year in less than two weeks.



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