

PROJECT REPORT

PETROCHEMICAL PLANT – TEXAS

Cross Flow Cooling Tower Rebuild



OVERVIEW

<i>Technology</i>	Mechanical Draft Cooling Tower
<i>Configuration</i>	Cross Flow
<i>Industry</i>	Petrochemical
<i>Location</i>	Texas
<i>Number of Cells</i>	15
<i>Material of Construction</i>	Wood
<i>Scope</i>	Repair structure; replace fiberglass header pipe, fill, drift eliminators, louvers, fan deck, and hot water basin
<i>Fill Type</i>	Splash
<i>Year Completed</i>	2012 thru 2015

Description

Research Cottrell Cooling, Inc. (“RCC”) was contracted to rebuild a 15-cell cross flow cooling tower at a petrochemical plant in Texas.

Work had been started by another contractor who intended to replace the entire wood structure with fiberglass while the tower was on-line. The contractor failed to support the header pipe during demo, which led to failure of the pipe. RCC was then contacted to assess the damage and repair the tower.

The existing header pipe was repaired and temporarily supported until a full replacement pipe could be fabricated and installed. RCC was able to offer considerable savings to the Owner by only replacing the deteriorated wood, as much of the structure in the plenum was in good condition. All splash fill, drift eliminators, louvers, fan deck, and hot water basins were fully replaced in individual isolated cells while the balance of the tower was on-line.



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