

## CERTIFICATE OF COMPLETION & REPORT

### Section 1: Scope

**Project Description:**

Cooling Tower Refurbishment – 1 Evapco Cooling Tower



**Scope of Work:**

Provide removal and proper disposal of the old fill, drift eliminators, louvers, access panels, and debris inside the cooling tower. Prep and coat inner walls and supports of cooling tower. Reinstallation of new fill, drift eliminators, louvers, and access panels.

### Section 2: Results

**Narrative & Findings:**

After removing all the media inside the tower (drift eliminators, 3' of fill and louvers) we observed severe corrosion happening on the top section of the tower. The area of utmost concern is securing the fan support which is in jeopardy of caving in. We didn't feel comfortable grinding or sandblasting these areas for coating because of all the holes we would've punched through on the top section. We decided to add a 2"x2" piece of angle that secured to the fan support bracket and the upper tower wall to provide more support. We scraped the outside loose of debris and rust from the surface then coated the remaining metal to prevent as much growing corrosion on that line as possible.

In lieu of coating the upper drift eliminator section as proposed we focused on the louver frames and vertical supports which were showing some corrosion. These were grinded clean, prepped and coated.

The new fabricated steel access panels with welded on handles were prepped, cleaned and painted with a specialty rust preventative metal paint.

The new 3' layer of fill was installed into the middle section of the tower along with the new drift eliminators on the top section. The tower was completely flushed out and cleaned thoroughly before installing the louvers, drip cap extensions and new access panels.

### NOTES & RECOMMENDATIONS:

Upon the request made by Brad during the completion walk-through we decided to go back and take off the louver frame supports and grind, clean and specialty paint these pieces to clean them up and make the tower look better. There was no charge to complete this.

We highly recommend the upper section of the tower be replaced to avoid complete failure and can be completed over a weekend. We will have a price to complete this as soon as possible. We also recommend the towers be mechanically cleaned from top to bottom at least once a year moving forward.

Thank you for your business!

Before Pictures

Pictures of the corroded upper deck and previous coating around compromised support before repairs.



Pictures prep work being done on tower and coating being applied to supports



Old Panels and New Access Panels after having been coated inside and out



A couple different views of the other walls on the upper deck.



After Pictures

Coating on the supports



Access Panels, new Knobs, coated trim, and Louvers



Reinforced upper casing with exterior coating



Close up of coated trim panels.

