

CERTIFICATE OF COMPLETION & REPORT

Section 1: Scope

Project Description:

Evap Cooler Refurbishment – 1 Evaporative Cooler Unit
[REDACTED]

Work Completion Dates: June 3rd- June 8th, 2019

Scope of Work:

Provide industrial coating on floor and motor supports in each evaporative cooler along with adding top and bottom section of drift eliminator with proper framing in front of cell-dek media.

Section 2: Results

Narrative & Findings:

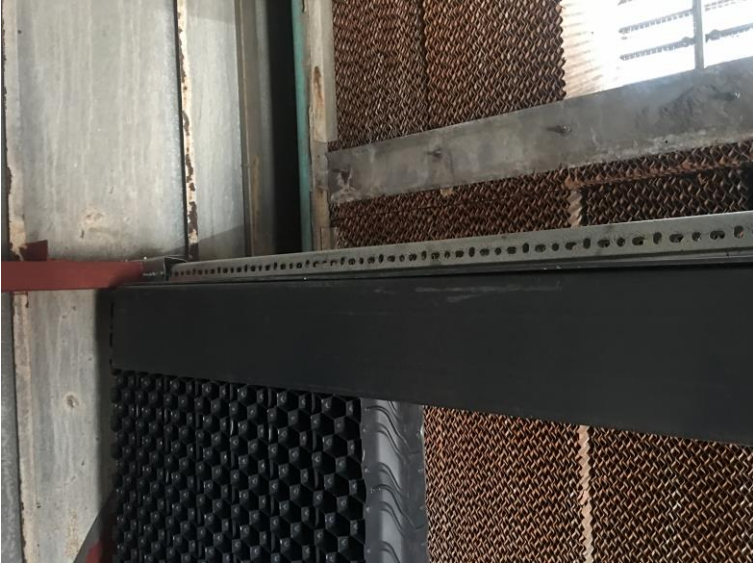
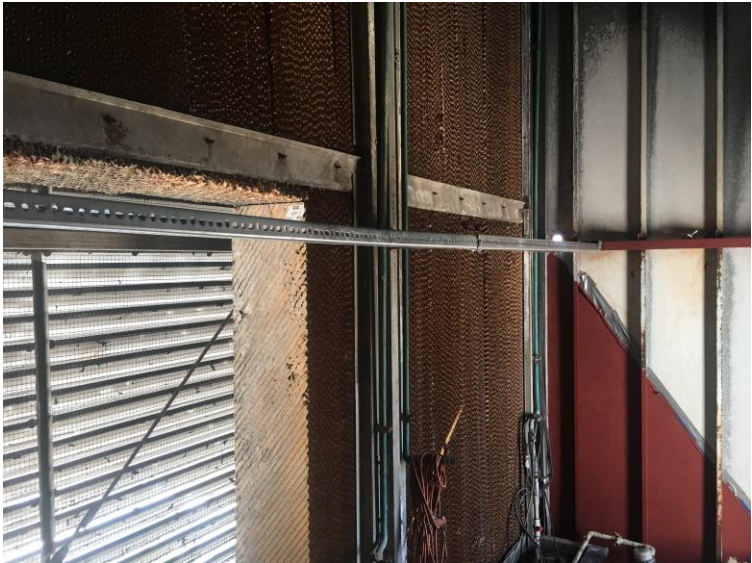
We started this process by removing all excess debris, dirt and corrosion from the floors and motor supports with grinders, surface prep tools, scrapers, brooms and shop vacs. This was the most tedious part of the project due to the amount of corrosion built up all over the supports and floor. We removed over 25 gal. of material from the unit. The unit was gone through and any major holes were patched. After a unit was completely prepped and taped off the application of our RCI-A rust reformer & primer was applied to the motor supports and floor supports (which had the most corrosion). This was done to add another layer of sealant to the units and encapsulate the rust we didn't have access to and prevent any growth. After the RCI was applied we then cleaned all the surfaces to be coated to ensure the metal we were coating was free from any debris or dust to get proper adhesion and bonding. Then we applied our adhesion promotor to the entire surface to help promote a strong bond with the Tower-Guard Coating and the metal. The unit was then "cut" in by coating all the borders, supports and harder to reach areas. During the cutting process we added poly-fab to the seems to add an extra layer of strength to the areas of the floor with the most stress. This gives those seems an extra 3-4 times the tensile strength and flexibility in worst case scenarios. This was done before coating the floor to ensure all areas would be coated properly and make it easier to apply the coating to the flooring. We then applied the coating to the entire floor with an even coat.

The drift eliminator sections were installed in front of the cell-dek media above the sump to reduce the moisture coming through to the motors and plenum of the unit causing havoc to everything in the unit. We custom built a frame support on the ceiling, middle bracing area and sump composed of a heavy gauge 6" utility angle. These frames were attached with stainless steel hardware to prevent any corrosion. The roofs of each unit were sealed with silicon where the hardware attached the frames to the roof. The utility angle was the perfect sizing so the drift eliminators can slide back and forth and be replaced easily. There were notches cut on each end to accommodate the different valves and actuators on the units. Each piece of drift was hot wired to ensure a perfect fit. We think the frames of these units can last forever with proper cleaning and maintenance annually along with changing the drift eliminator media every 5 years.

The cell-dek media on this unit was in decent shape but didn't fit into the rack properly which is why it has fallen out.

Thank you for your business!

Evap Cooler Refurbishment Pictures



Above are views of the supports built to hold the 6” drift eliminator track in place. Below is a section of the supports installed with drift eliminators.





Above is a before and after view of the media area with the drift eliminators installed.



Above are 2 different views of how badly the floor and walls were corroding before.



Above is a before and after view of the area around the piping and tight to the wall that we were able to seal.



East wall RCI-A then Coated.



Area around fan housing before, with RCI-A applied then fully coated.





Floor completed and sealed.