



MCAS Miramar

HVAC Restoration and Optimization Project Building 7515







MCAS Miramar

Phase 1: Rooftop AHU & Ductwork Optimization

Phase 2: Cooling Tower Restoration



MCAS Miramar Phase 2: Cooling Tower Restoration



Goals & Benefit Analysis of Restoration

- Arrests and prevents corrosion
- Provides protective coating of metal, keeping out of contact with water
- Extends useful life of tower
- Prevents excessive calcium and other build up on surfaces exposed to treated water
- Reduces maintenance costs
- Increases efficiency of system
- ~40% of the cost to replace, releasing capital money for other facility needs







- Protecall contracted to restore aging and failing cooling towers
- Cost of replacement was out of budget reach
- Towers were unable to perform at designed efficiency due to condition
- Corrosion was worsening resulting in additional leaks







- Due to condition, a temporary rental system was brought in during restoration
- Initial preparation included removal of fill media
- Basin and all surfaces were thoroughly cleaned









- Accessible corroded panels were removed
- All areas showing signs of corrosion protected with Rust Grip









Cooling Tower Restoration



Major repairs of the metal structure were performed where extensive corrosion had deteriorated galvanized

sidewalls









- Exterior surfaces were cleaned and prepared
- Surrounding areas were contained from overspray
- All exterior surfaces were primed to provide exceptionally strong adhesion
- Top coat was spray applied to provide corrosion resistant finish







- 100% solids epoxy coating applied to provide superior protection and elimination of future corrosion or leaks
- Monolithic coating has flexibility to avoid cracks due to shock and vibration
- Coating provides strong, smooth cleanable surface for efficient performance of tower







- Full restoration included installation of new OEM fill media to extend useful life
- Hot deck restoration option can include same coating system and replacement of spiral nozzles









- Fully restored cooling towers turned back over to base for full system operation
- Towers expected to have an additional 10 years or more of useful life







MCAS Miramar Phase 2: Cooling Tower









How Can We Serve You?





HVAC Coil Coatings New & Restoration



Thermal Barrier for HVAC & Duct Work



Cooling Tower Restoration



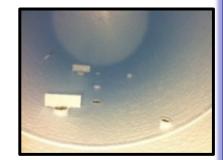
Boiler and Pipe Insulation



Roof Restoration



Steel Restoration



Pans, Tanks Structures