



Name: Power Plant
Owner: Hawaiian Electric
Location: Pearl Harbor, Hawaii, USA
Surface Prep: Power wash to SSPC-SP12 and SSPC-SP3
Products: Amerlock Sealer
Amerlock AL
Prep 88
PSX 700
Dates: December, 2003

The location of this storage tank is surrounded by a wetland area and a watercress farm. The tank had an existing failed coating that ranged in thickness from 20.3 to 30.4 mils dft. There was cohesion failure at the zinc and the system had developed hundreds of blisters with very aggressive corrosion.

The project requirement was to develop a system that would provide long-term protection in a very aggressive coastal marine and industrial environment. The catch was that no abrasive blasting could be performed due to a lead issue, wetland area, sensitive watercress farm, and a pedestrian walkway adjacent to the project. Also, the facility owner did not want to abrasive-blast with containment and have hundreds of tons of abrasive waste that would help fill the landfills in Hawaii. Facility owners have taken great strides in minimizing industrial waste due to the very high disposal costs.

PPG PMC's Manufacturer's Representative SPCC Industrial Coatings & Consulting specified Napier waterborne, non-hazardous stripper. It removed 20 mils of coating in two coats without any extra waste other than the paint film. The contractor then power-washed the tank shell to an SSPC-SP-12 LPWC, SSPC-SP-3 in combination with Prep 88. Following the preparation, a complete coat of Amerlock Sealer was applied, followed by a complete coat of Amerlock AL. The finish coating is PPG PMC's patented PSX 700 engineered siloxane, which will give outstanding long-term protection over non-blasted surfaces.

