

HydraTite Seal

Project: Nuclear Station 96" Circ Water

Application: Power Generation Pipeline

Product: HydraTite Seal

Substrate / Area: Carbon Steel, prepared for HydraTite Seal installation

Installation: January 2007

The Challenge

The circulating water box system requires a vacuum on the system to allow proper circulating water level in the water box to provide cooling through all tubes. This operating performance was degraded due to through wall leaks in the discharge piping that allowed atmospheric pressure to reduce vacuum levels and thus reduce cooling capacity of the condenser and overall electrical generation.

Engineered Solution

Innovative repair of 96" Circulating Water piping discharge piping to eliminate air in leakage from through wall leaks utilizing the HydraTite Seal.

Engineers had walked down the project, reviewed drawings, system operating parameters and provided an engineered solution. This solution utilized the HydraTite Seal with six – three piece stainless steel 316 steel bands, a Double Wide HydraTite seal and a 16 gauge stainless steel backing plate that covered the degraded areas and eliminate air in leakage.

The crew and all materials entered through an existing manhole and were able to complete the system installation within the work window provided by the station. At the completion of the project the system performance was brought back to as built specifications with the nuclear plant able to operate at better efficiency and thus increase electric generating output.



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