

Hydroelectric Power Plant Repairs Discharge Ring Cavitation With ENECON DuraTough DL



At this hydroelectric generating station, the 25 foot diameter discharge ring needed rebuilding due to cavitation damage. The “band” of damage ranged from about 24 inches in width at the top - where the deepest damage was found - and tapered down to about 12 inches at the 4 o'clock and 8 o'clock positions.

Having tested numerous products over the years for their cavitation resistance, this public utility has standardized on ENECON DuraTough. They have used more than \$100,000 of DuraTough over the past few years since it has proven itself to be the best material for these rigorous cavitation service conditions.

The discharge liner was thoroughly grit blasted and the deeply damaged areas were first rebuilt with METALCLAD DurAlloy to bring the ring surfaces back to the desired original contour. The entire area was then coated with DuraTough Primer and left



to sit overnight before proceeding. The following morning, the first coat of the DuraTough DL - Green was applied, followed by the application of the second coat of DuraTough DL - this time in the Blue color - to complete the application.

