

Repair vs. Replacement

The Cost Effective Solution

Halfway through the initial presentation at a “waste to energy” conversion plant in Massachusetts, the plant’s engineer and maintenance supervisor became extremely interested in the ENECON DurAlloy and DuraTough. So much so, that they asked the ENECON representatives to stop their presentation and immediately escorted them to the facility’s maintenance shop.

The maintenance supervisor and his crew had a damaged pump from their service water system disassembled and on the workbench. The back plate of the pump had severe cavitation damage; and, to make matters worse, the pump shaft was also badly scored in the bearing area.

Faced with replacing not only the expensive back plate this time, but also the stainless steel pump shaft,

they asked if ENECON could provide a solution. The answer was an unqualified YES!!...and the ENECON engineers were back on site the next morning to solve the problem.

The damaged back plate was first machined down and “grooved” and then rebuilt with DurAlloy to the desired dimensions and contours. The plate was then coated with the DuraTough system to extend its service life.

On the pump shaft, the damaged area was undercut and threaded. DurAlloy was then applied and machined down after cure to the necessary tolerances.

With ENECON Field Engineers providing “on the job training”, the repairs were carried out by the plant’s own maintenance crew - who are now able to use these ENECON solutions to handle future problems by repairing rather than replacing!

