

## **CeramAlloy Used for Critical Pump Repairs At Nuclear Station... Saves \$90,000 in Replacement Costs!**

The plant engineers at a nuclear power station located in the Pacific Northwest in the US discovered severe erosion/corrosion wear on the impeller, the suction bell and the diffuser bowl of a large submersible pump. This tower make-up water pump supplies water from the river to the cooling towers.

Sand and silt entrained in the river water accelerated the erosion damage to the pump while electrolysis problems had also accelerated the corrosion damage.

The ENECON Engineering Team in Washington, was called in to help diagnose and then solve the problem. Their recommendation... CeramAlloy, of course!

Working directly with the corrosion engineer, a formal on-the-job certification training program was put in

place simultaneously as the repair was carried out thus insuring that all future applications will be performed by trained, certified personnel.

All the pump components were first abrasive blasted to a 3-4 mil profile. All pitted areas on the diffuser bowl and the suction bell were then filled using CeramAlloy CP+ followed by the application of two coats of CeramAlloy CL+. The impeller, due to the rough surface, was coated with brush-applied CP+ to fill in as a base for the subsequent two coats of CL+.

**CeramAlloy  
is now  
a Stock item  
at this  
Nuclear Station**

