

Sea Water Ravages... **CeramAlloy Salvages** **Shipboard Evaporator**

This evaporator from the Military Sealift Command vessel San Jose was found corroded and severely eroded - especially in the areas where the division bars joined the face of the tube sheet. The force of the rushing water actually forces these joints slightly apart, resulting in "water jetting" and increased erosion.

Called in to advise on how best to solve this problem, ENECON's Fluid Flow Systems Specialist in San Diego, California, immediately recommended CeramAlloy.

After thorough preparation, which included checking for residual salt contamination and exact measurement

of the "blast profile" (see top photo), CeramAlloy CP+ was first used to rebuild the deeply damaged areas, followed by the application of the CeramAlloy CL+.

"Imagineering" is often what makes a great application even better. In this case, the ENECON Engineer suggested the use of the DuraTough DP to create a perfectly formed and slightly compressible joint at each division bar/ tube sheet mating surface.

In this way, when the pressure of the flowing water force the end cover back, the DuraTough will "fill the void" and eliminate the adverse effects of the accelerated erosion due to water jetting.

