

USS Sacramento Selects CeramAlloy CL+



When the US Navy combat support ship USS Sacramento (AOE - 1) was in Seattle for repairs, the ENECON Engineering Team was called in by Propulsion Controls Engineering Inc. - the contractor doing the repairs - to advise on how best to protect the vessel's Number 1 main condenser inlet tube sheet and water box.

After first using a high pressure water blaster to remove the remnants of a previously applied coating and to thoroughly clean all surfaces to assess their condition, the decision was made to protect the components with three coats of ENECON CeramAlloy CL+.

After plugging all 9,400 tubes, the areas were grit blasted to completely eliminate surface contamination and create a 3 mil profile. To remove any ingrained salts, the surfaces were then steam cleaned and dried overnight using heaters.

The following morning, the entire area was again blasted to remove any "leached" contaminants and oxidation. The first coat of CeramAlloy CL+, in the blue Color, was applied using brushes and small diameter "hot dog" rollers - paying careful attention to application thickness. This was

followed by the second coat of CL+ (Gray) and a final coat of CL+ (Blue) - leaving a finished applied coating thickness of 45 mils.

Once the CeramAlloy had cured, the tube openings were "dressed down with a conical grinding stone and the corks were "blown out" from the outlet side with compressed air.

