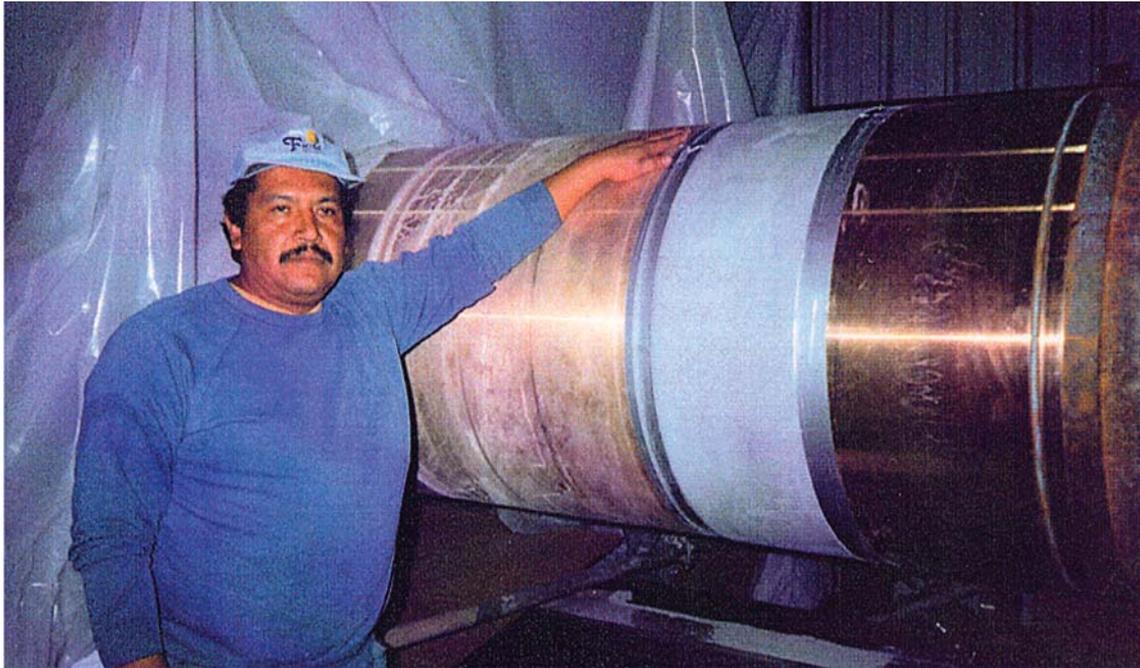


METALCLAD DurAlloy Repairs Main Propulsion Shaft On MSC Vessel



Following a Tuesday presentation to discuss potential repairs using ENECON High Performance Polymer Systems, ENECON representatives received a call on Thursday to come in and advise on a possible shaft repair. Of course, this main propulsion shaft from a Military Sealift Command (MSC) vessel happened to be **50 feet long, 31 inches in diameter and weighed in at 50 tons!!** An initial repair, which had been performed with conventional fiberglass materials, was deemed unacceptable after

machining due to excessive pitting and poor adhesion. As a matter of fact, the shaft was never even taken off the lathe.

After removing the fiberglass, the shaft was heated and washed down repeatedly to leach out any residual contaminants until the substrate was completely clean. The area was threaded and strips of 1/8 inch rubber were bonded around the shaft at the edges of the area to be repaired.

METALCLAD DurAlloy

was applied to the area and, using an aluminum straight edge fabricated in the shop for the task at hand, the section was uniformly overbuilt to the height of the rubber strips.

Once solidified, the DurAlloy was machined back to the required tolerances and the repair was inspected and accepted by the surveyor.

One of the two slings used to remove the shaft from the lathe was inadvertently placed directly on the repaired area. Shop personnel fully expected

that the DurAlloy would have been damaged by this operation - requiring additional repairs to the area.

However, the DurAlloy was still in perfect condition...and the shaft was re-installed in the vessel without further delays.

