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USS Kearsarge (LHD-3) Brine Pump Success Story

Santee, California, 1/31/02 - In July 2000, USS KEARSARGE (LHD-3), replaced two deteriorated brine pumps on number (1) and (2) distilling units with two EDDY PUMP Systems. The EDDY PUMP Systems have been in use aboard USS KEARSARGE for over eighteen months, for approximately 7,000 hours of maintenance free operation. During a recent six-month deployment the EDDY PUMP Systems operated continuously twenty-four hours per day for seven days a week. The USS Kearsarge chose EDDY PUMP Systems based on their success in the ship's CHT sewage transfer system and the USS John F. Kennedy (CV 67) 3,000 hour brine pump test in 1998-1999.

EDDY PUMP Systems are not a class of centrifugal pump nor a vortex type pump, but a patented and proven application of the tornado phenomenon which creates and harnesses a dynamic fluid eddy effect within the pump housing and inlet. In motion, the EDDY PUMP contains and recirculates an axially solid, progressively concentrated nucleus of energy. This energy is released in the form of a synchronized swirling column transmitted to the center of the pump intake opening by creating a negative pressure or "eddy" effect in the intake throat area. This "eddy" current carries the material along the low-pressure periphery of the swirling column of fluid to the discharge. This patented technology offers several design advantages over conventional centrifugal design pumps:

- The EDDY PUMP does not require a 'net positive suction head' as do conventional centrifugal pumps, and are not subject to the effects of cavitation, such as excessive vibration, and rapid erosion of impellers.
- The EDDY PUMP hydrodynamic principle creates a negative pressure where the rotor shaft penetrates the pump casing. Premature packing failure, which often results in motor bearing failure due to exposure from the system fluid or outside contaminant, is no longer an issue.
- Expensive pump overhauls have been virtually eliminated. There are no precision machined clearances between the rotor and the internal pump casing as in centrifugal pumps, which has eliminated the routine overhauls required by centrifugal pumps when pumping capacity decreases due to erosion and wear of impeller and casing wearing rings.
- The shaft seal uses a simple seal cartridge design. Periodic greasing of the seal cartridge is accomplished by an automated system that uses a standard tube of grease, which is easily replaced when it is empty. Grease tube replacement is typically required once per year, and is the only routine maintenance required. The seal cartridge is achieving long life: many have been in service over seven years.

EDDY PUMP Corporation has been in business since 1988 with the goal of transforming systems using new, best value, maintenance free technologies. Harry Weinrib is the President of EDDY PUMP Corporation. He is the inventor and developer of EDDY PUMP technology. His educational background includes a Master of Physics, a Doctor of Medicine and a Ph.D. in Fluid Dynamics. Dr. Weinrib has published over fifty-four articles in national and international publications and holds over ninety-five patents and patents pending worldwide.

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