SEAL POT FLUSHING AND CLEANING

Cleaning of mechanical seal pots and their associated piping should always be done prior to start-up and commissioning, and on existing pumps that have their seal piping modified. On new pumps this work is done concurrently with cleaning and setting of mechanical seals.

BARRIER FLUID

The Reliability Services ICU-30A is used to perform seal pot cleaning. This process is to clean the barrier fluid side of the seal pot. The barrier fluid tank is cleaned to remove any particulates from the seal failure. The ICU-30A has an inline filter to capture all particles and debris from the cleaning. This process is to increase the reliability of the seals. The chemistry used to perform the cleaning will depend on the type of fluid and the contamination in the seal pot. This type of cleaning would have to be performed while the barrier fluid tank/seal pot is down for seal replacement or repair.

COOLING JACKET/COIL CLEANING

The ICU-30A is also used to perform the cleaning of the water jackets/ coils on the seal pots. This process is to clean/remove hard water deposits from the cooling system. This type of cleaning could be performed with the seal pot barrier side still in service and the ICU-30A unit would be hooked up to the water jacket for cleaning. The cleaning of the water jacket will improve the cooling capability of the seal pot. The chemistry used to remove the hard water deposits will be determined based on contamination type and metallurgy.

ICU-30A

The ICU 30A is an air operated chemical cleaning unit
The entire unit is made out of 316 stainless steel
The flow of the unit is 30 gallons a minute
The circulating tank is 30 gallons
The unit has a filter bag on the return from the customer system
ICU-30A also has a heat exchanger for heating the solution or cooling depending on the application

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