DAMAGE ANALYSIS OF MECHANICAL SEAL
BOILER FEED PUMP (BFP) POWER PLANT UNIT 3-4
PT PJB UP GRESIK.

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Abstract

Mechanical Seal is a sealing device (tool of fluid blocked) which is one of the dynamic seal that serves to prevent (avoid) leakage a centrifugal pump stuffing box, which is composed of between 2 seal face, namely seal face attached to the pump shaft rotates with silent seal face attached to the wall of the pump house static.

Mechanical Seals are needed by a centrifugal pump, especially in large industrial example in PT generation industry. PJB, UP Gresik Steam Power Plant Units 3-4, because the only type of mechanical seals with seals that fit and able to withstand high pressures and temperatures that services by Boiler Feed Pump (BFP) Power Plant Units 3-4. Mechanical seal but still have a lot of weaknesses which are very easily leak and can easily be damaged due to mechanical seals hanging by a lifetime (to age tool) which is short and only reaches 3 years.

From the observations made, it can be concluded that the condition of the mechanical seal PT 4C. PJB UP Gresik Units 3-4 are in very bad condition and need immediate repair. For the comparison of mechanical seals in Boiler Feed Pump 4A that improvements have been made, the performance of Boiler Feed Pump 4C is very much decreased.
The decline in the performance of Boiler Feed Pump can come from many things, including the existence of the damage section side seal mechanical seal face (contact face) that has been worn due to friction (contact directly) with the other seal face, can also be caused by the lifetime of carbon seal face itself and also corrosion of mechanical and things - other things that can damage the mechanical seal.

Keywords: Mechanical Seals, Boiler Feed Pump