

## **ABSTRACT**

Circulating Water Pump is a pump in charge of supplying sea water to the condenser to convert the turbine vapor into water again. In the operation of condenser is very necessary supply of sea water which is used to cool turbine evaporator. At the time of the pump there will be high vibration because there is cavitation. When a high cavitation exceeds the limit it will cause cooling water (seawater) condensing less turbine or insufficient vapor as a result the vacuum will be low and the Steam Turbine unit will trip and the company incur losses. The decreased flow is Circulating Water Pump 1B. This case study aims to determine the causes of decreased flow in Circulating Water Pump 1B. The scope of this case study examines and investigates and corrects the causes of decreased flow at Circulating Water Pump 1B located in the PLTGU Semarang Power Generation Unit at standby. In this research contains the theory of Circulating Water Pump. The methodology used in this research are interview method, literature study method, and field study method. With analytical techniques that do checks, find problems, analyze, and conclusions. With this case study it is expected that the resulting flow of Circulating Water Pump is normal.

Keywords: flow reduction, Circulating Water Pump.