ABSTRACT

Restu Kistia Raharjo, NIT. 50134977.T, 2017 "*Analysis Prevention of Failure Boiler Burning by USG at MV. Brussels Bridge"*, Program Diploma IV, Technical, Marchant Marine Polytechnic of Semarang, 1st Supervision: Abdi Seno, M.Si., M.Mar.E and 2nd Supervision: Febria Surjaman, MT.

The boiler is a steam formed with pressure more than 1 (one) atmosphere, by heating the water in a closed tube by hot gases who produced from combustion fuel oil in the boiler combustion chamber, and the result is high-pressure hot steam. At this time the boiler that we know is divided into two kinds, that are boiler fire pipe and boiler water pipe. Boiler water pipe is more widely used than boiler fire pipe due to easier to maintenance and high efficiency. Therefore, the boiler must be treated properly, so that the process of steam formation can flowed properly.

The method that used in this scription is descriptive qualitative method by USG as a method to determine the priority of the problem. The formulation of the problem for this research are what's factors that can caused the failure of boiler burning, what's impacts, and what's efforts that are made to existing the problem.

From this research, we can concluded that the cause of failure boiler burning is the clogging of atomizer, incompatibility of electrode distance, dirty fuel oil heater and bad quality of fuel. The impacts of the causal factors are the failure of boiler burning, and the effort to avoid failure boiler burning are clean up the atomizer, remeasure the distance between electrodes according to the distance in instruction manual book, clean up the fuel oil heater , and than controlling the quality of fuel oil.

Key Words : Analysis, Prevention of Failure, Burning, Boiler