

ABSTRAK

Risk becomes an integral part of every company activity so that the best way to do it is to anticipate and protect themselves against risk. The problems that occur in the condensate steam line pipe installation of PT Petrokimia Gresik are in the preparation work process, fit up work, welding work, erection, final work where the risks that occur affect the length of project completion time. The purpose of this study was to identify the K3 risk hazards in the construction of the steam condensate pipe installation in the area of PT Petrokimia Gresik, assessing the risks that occur in the steam condensate pipe installation project in the area of PT Petrokimia Gresik, providing measures to deal with K3 risk (Occupational Safety and Health) in the activity of installing the condensate steam pipe project in the area of PT Petrokimia Gresik

In this study, the concept of risk management is used to analyze the risks in the condensate steam line pipeline PT Petrokimia Gresik, where the concept is carried out to identify, analyze risk, find the level of risk and evaluate risks associated with all activities that occur in the steam condensate PT pipe installation Petrochemical Gresik.

From the results of the study it was found that the company's response to risk variable number 7 (Affected by grinding machines and metal grinding machines) with a risk value of 11.56, number 15 (Danger of falling from a height) with a risk value of 10, number 17 (Risk of being hit and pinched) with a risk value of 14.4, number 18 (Risk of breaking the sling cable) with a risk value of 10.08, and variable number 26 (crushed and pinched pipe at the end of the process) with a risk value of 17.48, and risk variable number 27 (Danger of respiratory distress) with a risk value of 11.52. Actions to deal with these risks by taking into account the safety factors during the planning and construction of security systems by means of safety induction, designing safety and safety considerations in terms of engineering, administrative, training and PPE, providing safety clothing by using personal protective equipment.

Keywords: Risk, Occupational Safety and Health, Risk Management.