Abstract

PT Surya Purnama Semesta as a moving company in the form of bottom ash waste utilization of waste bottom ash as a raw material (randemen) process carbon raiser conducted into the process line according to the type of product produced by the company. Product raiser among carbon steel, high carbon and coke raiser in accordance with customer demand (job order) are working to improve the efficiency with which waste mereduksi appear in the company. Lean production is a method to improve business responsiveness through waste reduction, continuous improvement and cost reduction. (Motwani, 2003). Variations and dependence is sometimes terabaikan efforts in the implementation of lean production. The task of discussing the end of the research efforts on the implementation of lean manufacturing production system so that it can identify the waste that occurs in the process of making products to improve the work productivity of the company. Researchers use the concept of productivity, Lean Thinking, Big Picture Mapping, Root Cause Analysis, Failure Mode and Effect Analysis. Based on observations on the production process, revealed that the waste is most often appear in the production process consists of 2 types of waste that is inventory and waiting results from the application of the alternative selected is selected spare part metal iron (cracker) on the machine with crusher specification AISI type of material and cost 4340l maintenance decreased from 10 times maintenance to 3 times maintenance.

Key Word : : Bottom Ash, Waste, Lean Thinking, Big Picture Mapping, Root Cause Analysis, Failure Mode and Effect Analysis