ABSTRACT

PT Sumber Segara Primadaya is a steam power plant company with coal as the main raw material, most of the production process is part of the coal handling process. In the coal handling process there is a waiting time to setup the stacker reclaimer machine. This study aims to reduce the waiting time caused by the setup process on the stacker reclaimer machine by applying SMED, starting from separating internal and external activities, then designing Vest Tools that function to make it easier for operators to carry tools in the installation of rubber curtain (rubber rumbay) and improving the rubber rumbay installation process from previously using bolts to the sliding method. The results of the study are in the form of vest tools and changes in the installation of rubber rumbay which previously used 12 bolts to the sliding method as well as a reduction in internal activities in the form of checking the parts needed in the setup process so that there can be a reduction in setup time on the stacker reclaimer machine. The proposed application of SMED can reduce the setup process time in the stacking position for 23.74 minutes or as much as 35.29% of the initial time and the reclaiming process occurs time savings of 20.44 minutes or as much as 31.07% of the initial time.

Keywords: SMED, Steam Power Plant, Coal Handling, Set-up Time