

ABSTRACT

Management and maintenance planning of tools and equipment in Magma Nusantara Limited

Magma Nusantara Limited is a geothermal power plant company with 110 MW capacities located in Pangalengan Bandung. To support maintenance and operation activities, it needs a reliable tools and equipments. Large quantities of tools and equipments need a good management and maintenance planning. Current management and maintenance system needs a significant improvement. It reflects on the amount of lost or substandard tools and equipments.

The main objective of this management and maintenance planning is to improve the system of management and maintenance of tools and equipment in order to increase the reliability of tools and equipments which is support the operation and maintenance activities. On the other hand it can minimize the financial lost caused by lack of maintenance or substandard tools and equipment.

Even though the implementation of improved system is still not complete yet but we can see the advantage of the system. With old system the deviation between database and actual condition is over 30% but with improved system the deviation is decrease to just 2%. On the other hand we can gain several advantages such as planned routine maintenance and more controlled operational.

Currently implementation of improved system is still on progress because it needs a lot of effort and time. On the other hand continues improvement on the system is mandatory to accommodate the company needs or adopt the latest technology and system.