

ABSTRACT

PT Sulfindo Adi Usaha is a company that manufactures PVC (Polyvinyl Chloride) is also not free from problems related to the effectiveness of the machinery/equipment caused by the six big losses. It can be seen with the frequency of damage to the machinery / equipment since such damage so that production targets are not achieved. Another result of damage caused by machinery/equipment that is in terms of quality of the products where the product does not comply with quality standards. Therefore, necessary measures are effective and efficient in the maintenance of machinery / equipment to be menaggulangi and prevent the problem.

TPM is one of the methods developed in Japan that can be used to improve productivity and efficiency by using the company's production machinery/equipment effectively. No precise handling and maintenance of machinery/equipment damage not only causes problems, but also other losses that are called by the six big losses. One purpose of TPM is to increase the effectiveness by improving the function and performance of machinery / equipment used and eliminate the six big losses contained in the machine / equipment.

Object under investigation in this study were 201 reactor equipment in the station polymerization. The first stage in efforts to increase production efficiency at this company is by measuring the effectiveness of the reactor equipment 201 by using the OEE, MTBF and MTTR is then followed by measurement of OEE six big losses and big losses from the six factors is searched for the biggest factors that result in equipment efficiency rendahnya reactor 201.

The data used is the last one year of data that is months from January to December 2011. During the period January to December 2011 obtained the value of overall equipment effectiveness (OEE) is ranging between 24.98% - 89.08%. And the performance efficiency ratios ranging from 63.74% - 94.28%. And the availability ratio has remained between 39.61% - 94.71%. Based on the calculation of MTTR and MTBF, the company can do the maintenance before the machine is operated for 107.80 hours with an average repair time during the 3.36 hour. This maintenance can be performed on equipment when not in operation.

Keyword : Metode TPM, OEE, MTTR, MTBF, Six Big Losses