ABSTRAK

Total Productive Maintenance (TPM) merupakan ide Nakajima (1988) yang menekankan pada pendayagunaan dan keterlibatan sumber daya manusia dan sistem Preventive Maintenance untuk memaksimalkan efektifitas peralatan dengan melibatkan semua departemen dan fungsional organisasi. Studi penerapan TPM di Pabrik Anoda PT. INALUM (Persero) ini bertujuan untuk mengukur efektifitas mesin Turntable Vibrating Compactor. Didalam analisis TPM dengan menggunakan metode OEE ini ada terdapat enam penyebab kerugian yang disebut dengan Six Big Losses yaitu diantaranya : Kerusakan peralatan (Breakdown Losses), Persiapan peralatan (Set-up and Adjustment), Gangguan kecil dan waktu nganggur (Idling and Minor Stoppages), Kecepatan rendah (Reduced Speed Losses), Cacat produk dalam proses (Rework Losses), Hasil rendah (Yield/Scrap losses). Kesimpulan yang didapat adalah nilai rata – rata OEE selama periode April 2015 - Maret 2015 adalah 63,65 % masih dibawah standar. Nilai Idling/Minor Stoppages Losses 15,18% dengan total waktu 942,51 jam, hasil Rework Losses 0,02 % dengan total waktu 39,82 jam, hasil Reduce Speed Losses 27,47% dengan total waktu 2120,69 jam, hasil Breakdown Losses 7,75% dengan total waktu 51,20 jam, hasil Setup and Adjustment Losses 0,81 % dengan total waktu 57,31 jam, hasil Yield/Scrap losses didapat 0.

Kata kunci : Overall Equipment Efectiveness, Availability, Breakdown Time, Rate of Quality Product, Six Big Losses
ABSTRACT

Total Productive Maintenance (TPM) is an idea Nakajima (1988), which emphasizes the empowerment and involvement of human resources and Preventive Maintenance System to maximize the effectiveness of the equipment by involving all departments and functional society together. Study of the application of TPM in Anode Plant PT. INALUM (Persero) is intended to measure the effectiveness of Turntable Vibrating Compactor machine. In the analysis of TPM using OEE there are six causes of loss of the so-called Six Big Losses of them: Damage to equipment (Breakdown Losses), Preparation of equipment (Set-up and Adjustment), disorders of the small and idle time (Idling and Minor Stoppages) low speed (Speed Reduced losses), Defective products in the process (Rework losses), lower results (Yield / Scrap losses). The conclusion is the value-average OEE during the period April 2015 - March 2015 is 63.65% is below standard. Value Idling / Minor Stoppages Losses 15.18% with a total time of 942.51 hours, the results Rework Losses of 0.02% with a total time of 39.82 hours, the results Reduce Speed Losses 27.47% with a total time of 2120.69 hours, the results breakdown losses of 7.75% with a total time of 51.20 hours, the results Setup and Adjustment losses of 0.81% with a total time of 57.31 hours, the results Yield / Scrap losses obtained 0.

Keywords: Overall Equipment Effectiveness, Availability, Breakdown Time, Rate of Quality Product, Six Big Losses