

ABSTRAK

PT.XYZ merupakan salah satu anak perusahaan milik PT.PLN , aktifitas bisnis utama perusahaan berfokus sebagai penyedia listrik melalui pembangkit listrik yang tidak lepas dari masalah efektivitas perlatan atau mesin . terdapat deviasi yang signifikan antara perencanaan dan realisasi produksi pada mesin Gas Turbin 1.1 . maka penulis bertujuan melakukan pengukuran nilai *Overall Equipment Effectiveness* dan nilai faktor *Six Big Losses* untuk menganalisa dan mengevaluasi kinerja mesin serta memberikan masukan atau rekomendasi untuk meningkatkan kembali kinerja mesin . berdasarkan tujuan tersebut penulis menggunakan metode studi pustaka tentang metode OEE , studi dokumen perusahaan berupa laporan kinerja harian produksi , observasi pada mesin Gas turbin 1.1 dan wawancara kepada operator dan teknisi . Nilai OEE tertinggi terjadi pada bulan february sebesar 91,19 % dan terendah pada bulan Agustus 2018 yaitu 42,72 % dengan nilai *Availability* 100 % , *Performance Efficiency* 45,72 dan *Rate Of Quality Product* 93,43 % . *Reduce speed Loss* menjadi faktor yang paling berpengaruh dalam menurunkan kinerja mesin dengan persentase 88,46 % atau 1440,09 jam .

Kata Kunci : *Overall Equipment Effectiveness (OEE) , Availability , Performance Efficiency , Rate of Quality Product , Six Big Losses Reduce Speed Losses*



ABSTRACT

PT.XYZ is one of the subsidiaries of PT PLN (Persero) The Company's main business activities are focusing as a provider of electricity through power generation that cannot be separated from the effectiveness of equipment or machinery. There is a significant deviation between planning and production realization in the Gas Turbine 1.1 engine. the authors aim to measure the value of Overall Equipment Effectiveness and the value of the Six Big Losses factor to analysis and evaluate engine performance and provide input or recommendations to improve machine performance again. based on these objectives the authors use the literature study method of the OEE method, the study of company documents in the form of daily production reports, observations on Gas turbine engine 1.1 and interviews with operators and technicians . The highest OEE value occurred in February amounted to 91.19% and the lowest was in August 2018, which was 42.72% with a value of Availability 100%, Performance Efficiency 45.72 and Product Rate of Quality 93.43%. Reduce speed loss is the most influential factor in decreasing engine performance with a percentage of 88.46 % or 1440.09 hours.

Keywords: Overall Equipment Effectiveness (OEE), Availability, Performance Efficiency, Rate of Quality Products, Six Big Losses Reduce Speed Losses

