TOTAL PRODUCTIVE MAINTENANCE (TPM) APPROACH OF AUTO BASIC GROOMING MACHINE IN IMPROVEMENT OF OVERALL EQUIPMENT EFFECTIVENESS (OEE) IN TOY MANUFACTURING COMPANY

UNDERGRADUATE THESIS

Submitted as one of the requirements to obtain Sarjana Teknik (S.T.)

By

BERNADETA HOLLY AYUNINGRUM

ID No. 004201900053

FACULTY OF ENGINEERING

INDUSTRIAL ENGINEERING STUDY PROGRAM

CIKARANG

JUNE, 2023

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By

BERNADETA HOLLY AYUNINGRUM

ID No. 004201900053

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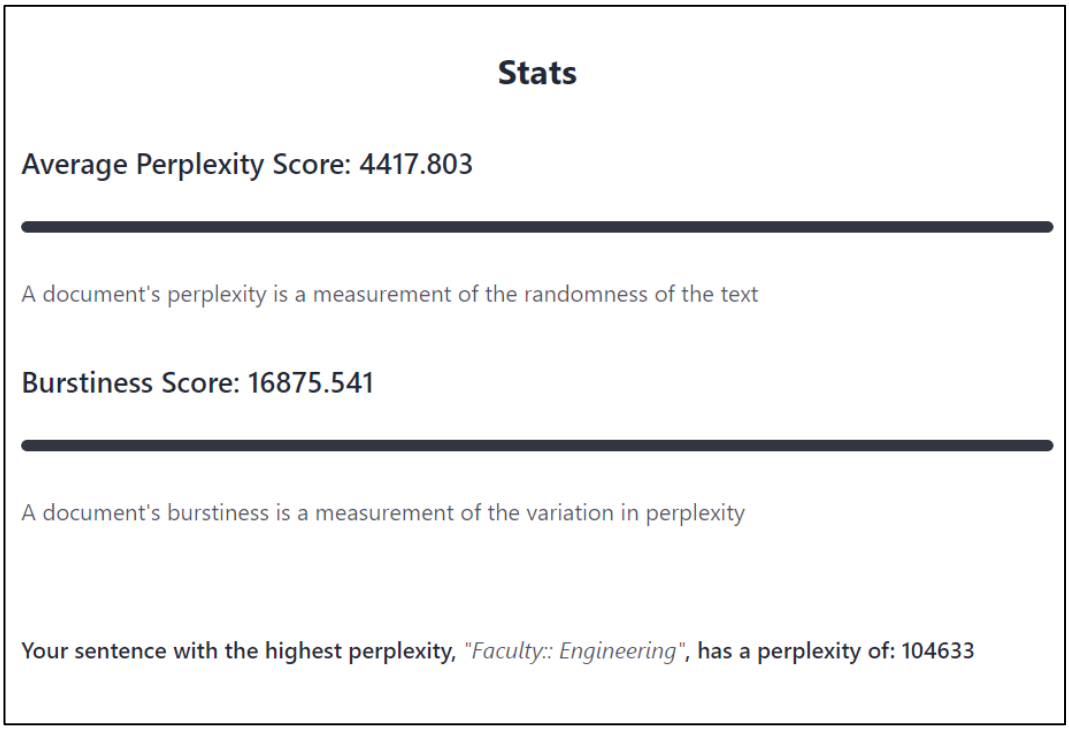

ABSTRACT

The Overall Equipment Effectiveness (OEE) is a critical benchmark for a toy manufacturing company. OEE is a measure that assesses the performance, availability, and quality of equipment and production processes. In the Toy Manufacturing Company, there are several wastes occurs and the OEE level is below world class standard based on the initial performance. This waste could result in output levels that are too low and fail to reach the goal by January 2023. According to the problem analysis, two issues of push failure and material congestion have a significant impact on performance degradation. These issues will be the subject of this research. Analysis of the data is focused on identifying the causes and effects of the six big losses using TPM implementation to improve the percentage of OEE. After identifying the issue and to improve the current condition, the corrective measures can enhance the OEE rate from 73% in January to 81% in February and 95% in March while reducing all types of losses from occurring.

Keywords: Auto Basic Grooming, OEE, Total Productive Maintenance (TPM), Overall Equipment Effectiveness (OEE), Six Big Losses, Cause and Effect Diagram.

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I can't mention everything, but I'm in the final stage now, I would like to say an unlimited thank you!

Sincerely,

Bernadeta Holly Ayuningrum

TABLE OF CONTENT

LIST OF TABLES

LIST OF FIGURES