PREVENTIVE MAINTENANCE INTERVAL OF CORRUGATOR MACHINE IN PT PURINUSA EKAPERSADA

FINAL PROJECT
Submitted in order to complete the requirement Bachelor of Engineering

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INDUSTRIAL ENGINEERING STUDY PROGRAM
FACULTY OF INDUSTRIAL TECHNOLOGY
ATMA JAYA YOGYAKARTA UNIVERSITY
YOGYAKARTA
2010
APPROVAL

Thesis of International S-1 Program Entitled:

PREVENTIVE MAINTENANCE INTERVAL OF CORRUGATOR MACHINE IN PT PURINUSA EKA PERDADA

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I dedicate all my memories to
ACKNOWLEDGEMENT

Thank’s to The God for His blessings, strength, and guidances that allow the writer to finally finish the Final Project Report, entitled “INTERVAL OF PREVENTIVE MAINTENANCE CORRUGATORS MACHINE IN PT PURINUSA EKAPERSADA”.

The Final Project Report is made to fulfill one of the requirements to reach bachelor degree of Industrial Engineering from Atma Jaya Yogyakarta University.

In this moment, the writer would like to thank to all parties who have helped the writer to accomplish the Final Project and report making as mentioned below:
1. Our Lord in Heaven for His blessing, spirit, strength and guidance to finish the final project report
2. Mr. Ir.B. Kristyanto, M.Eng., Ph.D., as Dean of Industrial Engineering Faculty Atma Jaya University
3. Mr. The Jin Ai, ST., MT., D.Eng., as Head of Industrial Engineering Study Program Atma Jaya University
4. Mrs. Ririn Diar Astanti, ST., MT., as Coordinator of International Industrial Engineering Study Program
5. Mrs. S. Setio Wigati, ST., MT., as adviser who has given many advises during final project constructing
6. Mrs. Y. Suharyanti, ST., MT., as co-adviser who has given many advices during final project constructing
7. Mr. Joko Suseno as the production manager of PT Purinusa Ekapersada Semarang for the warm hand shaking which motivate me to do my best
8. Mr. Nanang, Mr. Amin as machine operator who teach me about corrugators
9. My lovely parents that always supports, pray, and believe me to complete my study
10. My families for all the supports and prayers
11. Veronica Yulyanti, who always encouraging while I doubt
12. Lucky Kristantyo who help me in any difficulties.
13. Herfi, Wiwin, Crist, Iswo, Yozi, Widya, Shinto, Rico, and all my best friend that I can not mention one by one
14. Piter, Pandu, Memei, Rio, and Alex; My friends from TIKI 2006 who always support and willing to share a lot of experience together.
15. Other parties who has helped the writer in doing the internship study and report constructing, but unfortunately can not be mentioned one by one.

The writer realizes that the final project report is not the perfect one. So, the writer would like to accept any critics and suggestion from the readers. Hopefully, the final project report will bring a lot of benefits for all parties and the final project report can bring many advantages for the readers. Thank you.

Yogyakarta, 23 November 2010

The writer
CONTENT

Cover ................................................................. i
Approval ........................................................... ii
Dedication ........................................................... iii
Acknowledgement .................................................. iv
Content ............................................................... vi
List of Table ......................................................... ix
List of Figure ........................................................ x
List of Attachment ................................................... xi
Abstract ............................................................. xii

CHAPTER INTRODUCTION ................................. 1
  1.1. Background ............................................... 1
  1.2. Problem Statement ....................................... 2
  1.3. Research Objectives .................................... 2
  1.4. Scope ...................................................... 2
  1.5. Research Methodology .................................. 3
  1.6. Outline .................................................... 4

CHAPTER 2 LITERATURE REVIEW ...................... 6
  2.1. Previous Research ....................................... 6
  2.2. Recent Research ......................................... 7

CHAPTER 3 THEORY ............................................. 8
  3.1. Maintenance Definition ................................. 8
  3.2. Types of Maintenance ................................. 10
      3.2.1. Preventive Maintenance ......................... 10
      3.2.2. Corrective Maintenance ......................... 11
      3.2.3. Running Maintenance ......................... 11
      3.2.4. Predictive Maintenance ......................... 11
3.2.5. Breakdown Maintenance .................. 11
3.2.6. Emergency Maintenance ................ 12
3.3. Reliability ........................................ 12
3.4. Failure Rate ...................................... 12
3.5. Time to Failure Distribution ............... 15
3.6. Changeover Decision ......................... 20
3.7. Optimum Preventive Maintenance .......... 20

CHAPTER 4 COMPANY PROFILE AND DATA ............ 22
4.1. Company Profile .................................. 22
   4.1.1. History of Company ....................... 22
   4.1.2. Production System ....................... 23
   4.1.3. Production Process ..................... 24
   4.1.4. Maintenance System PT Purinusa Ekapersada .......................... 28
4.2. Data .............................................. 28
   4.2.1. Time Repair Data ....................... 28
   4.2.2. Work Hours Corrugators Machine ...... 28
   4.2.3. Opportunity Cost and Defect Cost ..... 32

CHAPTER 5 DATA ANALYSIS AND DISCUSSION ............ 34
5.1. Data Analysis .................................... 34
   5.1.1. Preliminary Data Analysis ............... 34
   5.1.2. Time to Failure and Time Failure ...... 34
   5.1.3. Time to Failure Distribution .......... 35
   5.1.4. Model Formulation .................... 36
   5.1.5. Model Validation ....................... 43
5.2. Discussion ...................................... 48
LIST OF TABLE

Table 4.1. Hotplate Downtime Data .................. 28
Table 4.2. Mechanical Repair Data .................. 30
Table 4.3. Total Production Data .................... 32
Table 5.1. Distribution Selection Based on Arena Input Analyzer Software for Time to Failure ......................... 36
Table 5.2. Total Production Data ..................... 38
Table 5.3. Minimum Cost Hotplate Manual Calculation ......................... 44
Table 5.4. Minimum Cost Mechanical Part Manual Calculation ......................... 46
Table 5.5. Comparison Between Maple Result and Simulation of Real Condition .......... 47
Table 5.6. Sensitivity Analysis Sumary ................. 49
Table 5.7. Data Analysis Result ...................... 49
List of Figure

Gambar 1.1. Flowchart of Research Methodology ...... 3
Gambar 3.1. The Role Maintenance System to Support Production System.......................... 8
Gambar 3.2. Bath up Curve........................................ 13
Gambar 3.3. Forms of Failure Rate Distribution..... 14
Gambar 3.4. Beta Distribution................................. 16
Gambar 3.5. Uniform Distribution............................ 16
Gambar 3.6. Exponential Distribution..................... 17
Gambar 3.7. Gamma Distribution.............................. 18
Gambar 3.8. Weibull Distribution........................... 18
Gambar 3.9. Lognormal Distribution...................... 19
Gambar 3.10. One Cycle of Failure......................... 21
Gambar 4.1. Production Process in PT Purinusa Ekapersada............................................ 26
Gambar 5.1. Model of 1 cycle failure....................... 36
Gambar 5.5. Cost per Unit Hotplate Part of Corrugator.............................................. 41
Gambar 5.6. Minimum Cost Graphic Mechanical Part of Corrugator................................... 42
Gambar 5.7. Defect Cost Less than Opportunity Cost............................................... 48
List of Attachment

Attachment 1  Detail of Maple Software for Hotplate
Weibull Distribution  ..................
Attachment 2  Detail of Maple Software for Hotplate
Weibull Distribution with Numeric
Method  ..............................
Attachment 3  Detail of Maple Software for Hotplate
Lognormal Distribution with Numeric
Method  ..............................
Attachment 4  Detail of Maple Software for Mechanical
Repair Exponential Distribution .......
Attachment 5  Distribution Summaries for Hotplate
part with Arena Input Analyzer .......
Attachment 6  Distribution Summary for Mechanical
part with Arena Input Analyzer .......
Attachment 7  Corrugator Machine  .....................
PT Purinusa Ekapersada is a packaging product company that is subsidiary of Sinarmas Group Company. Sheets and cardboard boxes are the orders commonly received by this company. Corrugator is the main machine to produce sheet and cardboard boxes. Hotplate part and Mechanical part are the main part of corrugators machine. Applying both corrective maintenance and preventive maintenance creates the high defect cost and opportunity cost. This research is proposed to decide the interval of maintenance based on minimizing cost.

The research is done by the model that uses software Maple V Release 5 Network Edition to find the interval of maintenance and Microsoft Excel to validate the result of maple software. Interval of maintenance system is used for decide time of maintenance based on cost minimization.

Analysis result shows the interval of maintenance and the cost minimization. The interval for hotplate part is 24 hours with cost Rp 196 and reduces 76.2% from initial cost. The interval for mechanical part is 23 hours with cost Rp 45 and reduces 92.4% from initial cost.