

DAFTAR ISI

	Halaman
KATA PENGANTAR	I
DAFTAR ISI	II
DAFTAR TABEL.....	v
DAFTAR GAMBAR.....	vii
DAFTAR LAMPIRAN	viii
INTISARI.....	ix
BAB I PENDAHULUAN	1
1.1 Latar Belakang.....	1
1.2 Identifikasi Masalah.....	2
1.3 Maksud dan Tujuan.....	3
1.3.1 Maksud	3
1.3.2 Tujuan.....	3
1.4 Kerangka Pemikiran.....	3
1.5 Metodologi Penelitian.....	5
1.6 Diagram Alir Penelitian.....	6
BAB II LANDASAN TEORI	7
2.1 <i>Cutting</i>	7
2.1.1 Persiapan <i>Cutting</i>	8
2.1.1.1 <i>Pre-Production Meeting (PPM)</i>	8
2.1.1.2 Penyusunan Marker.....	8
2.1.1.3 Kalkulasi Kebutuhan Kain	10
2.1.1.4 <i>Fabric Relaxation</i>	10
2.1.2 <i>Spreading</i>	11
2.1.2.1 Tahap <i>Spreading</i>	12
2.1.2.2 Syarat <i>Spreading</i> untuk <i>Auto Cutter</i>	13
2.1.3 Proses <i>Cutting</i>	14
2.1.3.1 Mesin <i>Auto Cutter</i>	14
2.1.3.2 Persiapan <i>Cutting</i>	16
2.1.3.3 Tujuan <i>Cutting</i>	17
2.1.4 Proses <i>Bundling</i>	18
2.2 <i>Maintenance</i> Mesin	19
2.2.1 Jenis-jenis <i>Maintenance</i>	19
2.2.1.1 <i>Preventive Maintenance</i>	19

DAFTAR ISI (LANJUTAN)

	Halaman
2.2.1.2 <i>Predictive Maintenance</i>	20
2.2.1.3 <i>Scheduled Maintenance</i>	21
2.2.1.4 <i>Corrective Maintenance</i>	21
2.3 <i>Overall Equipment Effectiveness (OEE)</i>	21
2.3.1 <i>Availability Rate</i>	21
2.3.2 <i>Performance Efficiency</i>	23
2.3.3 <i>Rate of Quality</i>	23
2.4 <i>Six Big Losses</i>	24
2.5 Pengukuran Waktu Kerja	25
2.5.1 Waktu Siklus.....	27
2.5.2 Waktu Normal.....	27
2.5.3 Waktu Baku	29
2.6 Uji Kecukupan Data	29
2.7 Uji Normalitas Data.....	30
BAB III PEMECAHAN MASALAH	31
3.1 Penelitian	31
3.2 Persiapan Penelitian	31
3.2.1 Persiapan Alat.....	31
3.2.3 Persiapan Bahan	31
3.3 Metodologi Penelitian.....	32
3.4 Percobaan Perhitungan Data	34
3.4.1 <i>Overall Equipment Effectiveness (OEE)</i>	34
3.4.1.1 <i>Availability Rate</i>	34
3.4.1.2 <i>Performance Efficiency</i>	39
3.4.1.3 <i>Rate Of Quality</i>	40
3.4.1.4 <i>Overall Equipment Effectiveness (OEE)</i>	41
3.4.2 Percobaan Data <i>Six Big Losses</i>	41
3.5 Perhitungan Data	44
3.5.1 <i>Overall Equipment Effectiveness (OEE)</i>	44
3.5.1.1 <i>Availability Rate</i>	44
3.5.1.2 <i>Performance Efficiency</i>	47
3.5.1.3 <i>Rate Of Quality</i>	49
3.5.2 Analisis <i>Six Big Losses</i>	50

DAFTAR ISI (LANJUTAN)

	Halaman
3.5.2.1 <i>Equipment Failure Losses</i>	50
3.5.2.2 <i>Set Up Adjustment Losses</i>	51
3.5.2.3 <i>Idle and Minor Stoppage Losses</i>	52
3.5.2.4 <i>Reduce Speed Losses</i>	53
3.5.2.5 <i>Defect Losses</i>	54
3.5.2.6 <i>Reduce Yield</i>	55
3.6 Rekapitulasi Perhitungan	56
3.6.1 Perhitungan <i>Overall Equipment Effectiveness (OEE)</i>	56
3.6.2 <i>Six Big Losses</i>	58
3.7 Uji Kecukupan Data	60
3.8 Uji Normalitas SPSS	65
BAB IV DISKUSI.....	67
4.1 Penyebab nilai OEE Rendah.....	68
4.2 Upaya Perbaikan berdasarkan <i>Six Big Losses</i>	70
4.3 <i>Overall Equipment Effectiveness (OEE)</i> Setelah Penerapan.....	71
4.3.1 <i>Availability Rate</i> Setelah Penerapan	71
4.3.2 <i>Performance Efficiency</i> Setelah Penerapan	74
4.3.3 <i>Rate Of Quality</i> Setelah Penerapan	65
4.3.4 <i>Overall Equipment Effectiveness (OEE)</i> Setelah Penerapan.....	66
4.4 Analisis <i>Six Big Losses</i> Setelah Penerapan	67
4.4.1 <i>Idle and Minor Stoppage Losses</i>	67
4.4.2 <i>Equipment Failure Losses</i> Setelah Penerapan.....	68
4.4.3 <i>Set Up Adjustment Losses</i>	69
4.5 Perbandingan Hasil <i>Cutting</i>	70
4.6 Perbandingan Nilai <i>Overall Equipment Effectiveness (OEE)</i>	71
4.7 Perbandingan Nilai <i>Six Big Losses</i>	71
4.8 Uji <i>Wilcoxon OEE</i>	72
BAB V PENUTUP	73
5.1 Kesimpulan	73
5.2 Saran	73
DAFTAR PUSTAKA.....	74
LAMPIRAN	76

DAFTAR TABEL

	Halaman
Tabel 1.1 Data Target dan Aktual <i>Cutting</i>	2
Tabel 1.2 Nilai Ideal atau Standar OEE	3
Tabel 2.1 Pengelompokan Material Relaksasi	11
Tabel 2.2 Aturan Penggelaran Kain	12
Tabel 2.3 Metode <i>Westinghouse</i>	28
Tabel 3.1 Spesifikasi Mesin <i>Auto Cutter</i> PT PB	31
Tabel 3.2 Deskripsi Bahan pada <i>Long Pants Style X</i>	31
Tabel 3.3 Percobaan Data <i>Availability Rate</i>	34
Tabel 3.4 Percobaan Data <i>Performance Efficiency</i>	39
Tabel 3.5 Percobaan Data <i>Rate Of Quality</i>	40
Tabel 3.6 Percobaan Data <i>Equipment Failure Losses</i>	41
Tabel 3.7 Percobaan Data <i>Set Up Adjustment Losses</i>	41
Tabel 3.8 Percobaan Data <i>Idle and Minor Stoppage Losses</i>	42
Tabel 3.9 Percobaan Data <i>Reduce Speed Losses</i>	42
Tabel 3.10 Percobaan Data <i>Defect Losses</i>	43
Tabel 3.11 Percobaan Data <i>Reduce Yield</i>	43
Tabel 3.12 Data <i>Availability Rate</i>	44
Tabel 3.13 Hasil Perhitungan <i>Availability Rate</i>	46
Tabel 3.14 Data <i>Performance Efficiency</i>	47
Tabel 3.15 Data <i>Rate Of Quality</i>	49
Tabel 3.16 Data <i>Equipment Failure Losses</i>	50
Tabel 3.17 Data <i>Set Up Adjustment Losses</i>	51
Tabel 3.18 Data <i>Idle and Minor Stoppage Losses</i>	52
Tabel 3.19 Percobaan Data <i>Reduce Speed Losses</i>	53
Tabel 3.20 Percobaan Data <i>Defect Losses</i>	54
Tabel 3.21 Percobaan Data <i>Reduce Yield</i>	55
Tabel 3.22 Data <i>Overall Equipment Effectiveness (OEE)</i>	56
Tabel 3.23 Data <i>Six Big Losses</i>	58
Tabel 3.24 Uji Kecukupan Data	60
Tabel 4.1 Hasil nilai OEE	67
Tabel 4.2 Hasil nilai <i>Six Big Losses</i>	67
Tabel 4.3 Data Hasil <i>Cutting</i>	68
Tabel 4.4 Data <i>Availability Rate</i> Setelah Penerapan	71

DAFTAR TABEL (LANJUTAN)

	Halaman
Tabel 4.5 Hasil Perhitungan <i>Availability Rate</i> Setelah Penerapan	73
Tabel 4.6 Data <i>Performance Efficiency</i> Setelah Penerapan.....	74
Tabel 4.7 Data <i>Rate Of Quality</i> Setelah Penerapan.....	65
Tabel 4.8 Data <i>Overall Equipment Effectiveness (OEE)</i> Setelah Penerapan	66
Tabel 4.9 Data <i>Idle and Minor Stoppage Losses</i>	67
Tabel 4.10 Data <i>Equipment Failure Losses</i> Setelah Penerapan	68
Tabel 4.11 Data <i>Set Up Adjustment Losses</i>	69
Tabel 4.12 Perbandingan Hasil <i>Cutting</i>	70
Tabel 4.13 Perbandingan Nilai OEE	71
Tabel 4.14 Perbandingan Nilai <i>Six Big Losses</i>	71
Tabel 4.15 Uji <i>Wilcoxon OEE</i>	72



DAFTAR GAMBAR

	Halaman
Gambar 2.1 <i>Flow Process Cutting</i>	7
Gambar 2.2 <i>Flow Process Check Pattern</i>	8
Gambar 2.3 <i>Flow Process Susun Marker</i>	9
Gambar 2.4 Mesin Auto Cutter KURIS.....	16



DAFTAR LAMPIRAN

	Halaman
Lampiran 1 Perhitungan Availability Rate	76
Lampiran 2 Perhitungan <i>Performance Efficiency</i>	79
Lampiran 3 Perhitungan <i>Rate Of Quality</i>	82
Lampiran 4 Perhitungan <i>Equipment Failure Losses</i>	85
Lampiran 5 Perhitungan <i>Set Up Adjustment Losses</i>	88
Lampiran 6 Perhitungan <i>Idle and Minor Stoppage Losses</i>	91

