

DAFTAR ISI

ABSTRAK	i
ABSTRACT	ii
PERSEMPAHAN.....	iii
KATA PENGANTAR	iv
DAFTAR ISI	v
DAFTAR GAMBAR	viii
DAFTAR TABEL	ix
DAFTAR SINGKATAN DAN LAMBANG.....	xi
DAFTAR ISTILAH.....	xii
DAFTAR LAMPIRAN.....	xiii
BAB I PENDAHULUAN	1
I.1 Latar Belakang.....	1
I.2 Perumusan Masalah	6
I.3 Tujuan Penelitian	6
I.4 Manfaat Penelitian	6
I.5 Batasan Penelitian.....	6
I.6 Sistematika Penulisan	7
BAB II LANDASAN TEORI	9
II.1 Manajemen Perawatan	9
II.1.1 <i>Preventive Maintenance</i>	10
II.1.2 <i>Corrective Maintenance</i>	10
II.2 Laju Kerusakan.....	11
II.3 <i>Reliability</i>	12
II.3.1 Fungsi Keandalan	12
II.3.2 Fungsi Laju Kerusakan	13
II.4 <i>Mean Time to Failure (MTTF)</i>	14
II.5 <i>Mean Time to Repair (MTTR)</i>	15
II.6 <i>Risk Matrix</i>	15
II.7 <i>Business Consequence</i>	16
II.8 <i>Cost of Unreliability (COUR)</i>	17
II.8.1 <i>Related Work</i>	18

II.8.2 Model <i>Cost of Unreliability</i> (COUR)	20
II.8.3 Perhitungan <i>Cost of Unreliability</i> (COUR).....	22
II.9 Pemilihan Metode.....	23
II.10 Posisi Penelitian.....	24
BAB III METODOLOGI PENELITIAN.....	26
III.1 Model Konseptual	26
III.2 Sistematika Penyelesaian Masalah.....	27
III.2.1 Tahap Pendahuluan.....	29
III.2.2 Tahap Pengumpulan Data	30
III.2.3 Tahap Pengolahan Data	30
III.2.4 Tahap Analisis	31
III.2.5 Tahap Kesimpulan dan Saran.....	32
BAB IV PENGUMPULAN DAN PENGOLAHAN DATA	33
IV.1 Pengumpulan Data	33
IV.1.1 Deskripsi Mesin Fillomatic Rotary Liquid Filler & Capper	33
IV.1.2 Kegiatan Perawatan Aktual Mesin Fillomatic Rotary Liquid Filler & Capper Vectra 4012 SB	35
IV.1.3 Data Waktu Antar Kerusakan (<i>Time To Failure</i>)	36
IV.1.4 Data Waktu Antar Perbaikan (<i>Time To Repair</i>).....	36
IV.1.5 Data <i>Downtime</i>	36
IV.1.6 Data Upah <i>Labor Maintenance</i>	37
IV.1.7 Data Biaya Material.....	37
IV.1.8 Data <i>Loss Revenue</i>	39
IV.2 Pemilihan Sistem dan Subsistem Kritis	40
IV.2.1 Pemilihan Sistem Kritis	41
IV.2.2 Pemilihan Subsistem Kritis.....	43
IV.3 Penentuan Distribusi Data dan Parameter	44
IV.3.1 Pengujian Distribusi <i>Time To Failure</i> (TTF).....	44
IV.3.2 Pengujian Distribusi <i>Time To Repair</i> (TTR)	46
IV.3.3 Pengujian Distribusi <i>Downtime</i> (DT).....	47
IV.3.4 Penentuan Parameter Distribusi	48
IV.3.5 Perhitungan <i>Mean Time To Failure</i> (MTTF)	48
IV.3.6 Perhitungan <i>Mean Time To Repair</i> (MTTR)	49
IV.3.7 Perhitungan <i>Mean Downtime</i> (MDT).....	49

IV.4 Perhitungan <i>Cost of Unreliability</i> (COUR).....	50
IV.4.1 Perhitungan <i>Failure Rate</i>	50
IV.4.2 Perhitungan <i>Lost Time</i>	51
IV.4.3 Perhitungan <i>Money Lost</i>	52
IV.5 Penentuan <i>Business Consequence</i>	55
BAB V ANALISIS	60
V.1 Analisis Penentuan Sistem dan Subsistem Kritis	60
V.2 Analisis Distribusi <i>Time To Failure, Time To Repair dan Downtime</i>	60
V. 3 Analisis <i>Cost of Unreliability</i> (COUR)	60
V.3.1 Analisis <i>Failure Rate</i>	60
V.3.2 Analisis <i>Lost Time</i>	61
V.3.2.1 Analisis <i>Corrective Lost Time</i>	61
V.3.2.2 Analisis <i>Downtime Lost Time</i>	62
V.3.3 Analisis <i>Money Lost</i>	63
V.3.3.1 Analisis <i>Money Lost</i> Berdasarkan <i>Corrective Lost Time</i>	64
V.3.3.2 Analisis <i>Money Lost</i> Berdasarkan <i>Downtime Lost Time</i>	64
V.4 Analisis <i>Business Consequence</i>	65
BAB VI KESIMPULAN DAN SARAN	67
VI.1 Kesimpulan.....	67
VI.2 Saran.....	67
VI.2.1 Saran Bagi Perusahaan	67
VI.2.2 Saran Bagi Penelitian Selanjutnya	67
DAFTAR PUSTAKA	68
LAMPIRAN	71