

DAFTAR ISI

ABSTRAK	i
ABSTRACT	iii
KATA PENGANTAR	iv
DAFTAR ISI	v
DAFTAR TABEL	viii
DAFTAR GAMBAR	xi
DAFTAR SINGKATAN DAN LAMBANG	xii
DAFTAR ISTILAH	xiii
DAFTAR LAMPIRAN	xiv
BAB I PENDAHULUAN.....	1
I.1 Latar Belakang.....	1
I.2 Perumusan Masalah.....	5
I.3 Tujuan Penelitian.....	5
I.4 Manfaat	5
I.5 Batasan Penelitian	5
I.6 Sistematika Penulisan	5
BAB II LANDASAN TEORI.....	7
II.1 Manajemen Perawatan (<i>Maintenance Management</i>)	7
II.1.1 Tujuan Manajemen Perawatan	7
II.1.2 Fungsi Manajemen Perawatan.....	8
II.1.3 Bentuk-bentuk Perawatan	9
II.2 <i>Corrective Maintenance</i>	10
II.3 <i>Reliability</i> (Keandalan).....	10
II.4 Distribusi Kerusakan	11
II.4.1 Distribusi Eksponensial	12
II.4.2 Distribusi Normal	12
II.4.3 Distribusi Weibull	13
II.4.4 Distribusi Poisson	14
II.5 Analisa Data Kerusakan	15
II.5.1. <i>Mean Time to Failure</i> (MTTF).....	15

II.5.2.	<i>Mean Time to Repair</i> (MTTR)	16
II.6	System Breakdown Structure	16
II.7	Spare Part Management.....	17
II.7.1	Pengertian Spare Part Management.....	17
II.7.2	Pengertian <i>Spare Part</i>	17
II.7.3	Karakteristik <i>Spare Part</i>	18
II.7.4	Tujuan Spare Part Management	19
II.7.5	Langkah – langkah Sistematik <i>Spare Part Management</i>	19
II.8	<i>Reliability Centered Spares</i> (RCS).....	20
II.8.1	Pengertian <i>Reliability Centered Spares</i> (RCS).....	20
II.8.2	Prinsip <i>Reliability Centered Spares</i> (RCS)	20
II.8.3	Keuntungan penerapan <i>Reliability Centered Spares</i> (RCS).....	20
II.9	<i>Poisson Process</i>	21
II.9.1	<i>Repairable Spare</i>	22
II.9.2	<i>Non-Repairable Spare</i>	23
II.10	<i>Inventory</i> dan modifikasi EOQ.....	25
II.10.1	Pengertian <i>Inventory</i>	25
II.10.2	<i>Spare Part Inventory</i> dan <i>Stocking Policy</i>	25
II.10.3	<i>Inventory Control System and Planning</i>	26
II.10.4	<i>Economic Order Quantity</i> (EOQ)	26
II.10.5	<i>EOQ Modification</i>	28
II.11	<i>Risk Priority Number</i> (RPN)	30
II.12	Pemilihan Metode.....	34
II.13	Studi Literatur.....	35
	 BAB III METODOLOGI PENELITIAN	37
III.1	Model Konseptual	37
III.2	Sistematika Penyelesaian Masalah	39
III.3	Kerangka Pemecahan Masalah.....	42
III.3.1	Tahap Inisialisasi Masalah.....	42
III.3.2	Tahap Pengumpulan dan Pengolahan Data	43
III.3.3	Tahap Analisis dan Kesimpulan	44
	 BAB IV PENGUMPULAN DAN PENGOLAHAN DATA	45
IV.1	Pengumpulan Data.....	45
IV.1.1	Deskripsi Mesin Jet-Dyeing	45

IV.1.2	Penentuan Sistem Kritis	46
IV.1.3	Penentuan Sub-Sistem Kritis.....	47
IV.1.4	Data <i>Time to Repair</i>	49
IV.1.5	Data <i>Time to Failure</i>	49
IV.1.6	Data Harga Komponen	49
IV.1.7	Data Komponen <i>Modified EOQ</i>	51
IV.2	Pengolahan Data	54
IV.2.1	Perhitungan Kuantitatif	54
IV.2.2	Penentuan Parameter Distribusi <i>Time to Failure (TTF)</i> , <i>Time to Repair (TTR)</i> , dan <i>Downtime</i>	62
IV.2.3	Parameter <i>Mean Time to Failure (MTTF)</i> , <i>Mean Time to Repair (MTTR)</i> , dan <i>Mean Downtime (MDT)</i>	62
IV.2.4	Perhitungan Kebutuhan <i>Spares</i> Metode <i>Reliability Centered Spares</i>	67
IV.2.5	Penentuan Kebijakan Spare Part.....	86
	 BAB V ANALISIS	90
V.1.	Analisis Penentuan Sistem dan Sub-sistem Kritis	90
V.2.	Analisis Hasil Uji Distribusi.....	91
V.3.	Analisis <i>Repairable</i> dan <i>Non-repairable</i>	93
V.4.	Analisis Kebutuhan Komponen.....	94
V.5.	Analisis Perhitungan Jumlah Inventory.....	95
V.6.	Analisis Perbandingan Kebutuhan Komponen dan Jumlah Inventory	97
	 BAB VI KESIMPULAN DAN SARAN.....	100
VI.1	Kesimpulan.....	100
VI.2	Saran	100
	 DAFTAR PUSTAKA.....	102

