

DAFTAR GAMBAR

No. Gambar		Halaman
1.1	Kenaikan heat rate PLTG frame 6B	2
2.1	Diagram sistem turbin gas sederhana	6
2.2	Turbin gas yang dipatenkan tahun 1908	8
2.3	Turbin gas untuk pesawat terbang pertama kali tahun 1930	9
2.4	Skema PLTGU	10
2.5	Diagram T-s	11
2.6	Diagram P-V	11
2.7	Compressor turbin gas	13
2.8	Susunan <i>combustion chamber</i>	13
2.9	<i>Blade</i> turbin gas 3 tingkat	14
2.10	<i>Inlet guide vanes</i>	15
2.11	Komponen utama PLTG	15
2.12	<i>Intake air filter</i> PLTG	16
2.13	Motor cranking PLTG	16
2.14	<i>Fan compartment</i> PLTG	17
2.15	<i>Load gear</i> PLTG	17
2.16	<i>Aux lube oil pump & DC oil pump</i>	18
2.17	<i>Aux hydraulic oil pump</i>	18
2.18	<i>Lube oil mist eliminator pump</i>	19
2.19	Desain gas turbin <i>frame 6B</i>	20

2.20	Komponen-komponen <i>combuster chamber</i>	20
2.21	Spesifikasi gas turbin GE <i>frame 6B</i>	21
2.22	<i>Fouling</i> /pengotoran pada sudu kompresor gas turbin	24
2.23	Sistem <i>water wash</i> PLTG	26
2.24	<i>Water wash system</i>	27
2.25	Tangki air demin untuk <i>water wash</i>	27
2.26	<i>Name plate</i> tangki air demin untuk <i>water wash</i>	28
2.27	Tangki detergen & <i>name plate</i>	28
2.28	<i>Water wash pump & flow switch</i>	29
2.29	Name plate motor <i>water wash</i>	29
2.30	Panel kontrol lokal <i>water wash</i>	30
2.31	<i>Electric water heater</i>	32
2.32	<i>Flow switch</i>	32
3.1	Diagram alir penelitian	40
3.2	<i>Log sheet</i> harian PLTG	41
3.3	<i>Face plate</i> HMI <i>water wash</i> gas turbin	50
3.4	<i>Hydraulic ratchet pump & Igniter</i> gas turbin	51
3.5	<i>Air extraction valve</i>	51
3.6	<i>Valve inlet dan exhaust plenum</i>	51
3.7	<i>Valve drain cooling and air extraction</i>	52
3.8	<i>Water wash</i> pit GTG 1	52
3.9	Piping line <i>washing</i> ke unit GT	53

3.10	Solenoid valve <i>offline</i>	53
3.11	Heater & level tangki demin <i>water wash</i>	54
3.12	Tangki detergen & level tangki detergen <i>water wash</i>	54
3.13	Cranking motor	56
3.14	Panel lokal <i>water wash</i>	57
3.15	Manometer tekanan pompa <i>water wash</i>	57
3.16	Pengecekan conductivity	57
3.17	Checklist <i>water wash</i>	58

